



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

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.

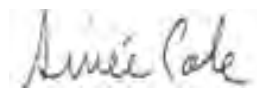
CLOSURE REQUEST

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.

Sincerely,
Ensolum, LLC



Kalei Jennings
Senior Scientist

Aimee Cole
Senior Managing Scientist

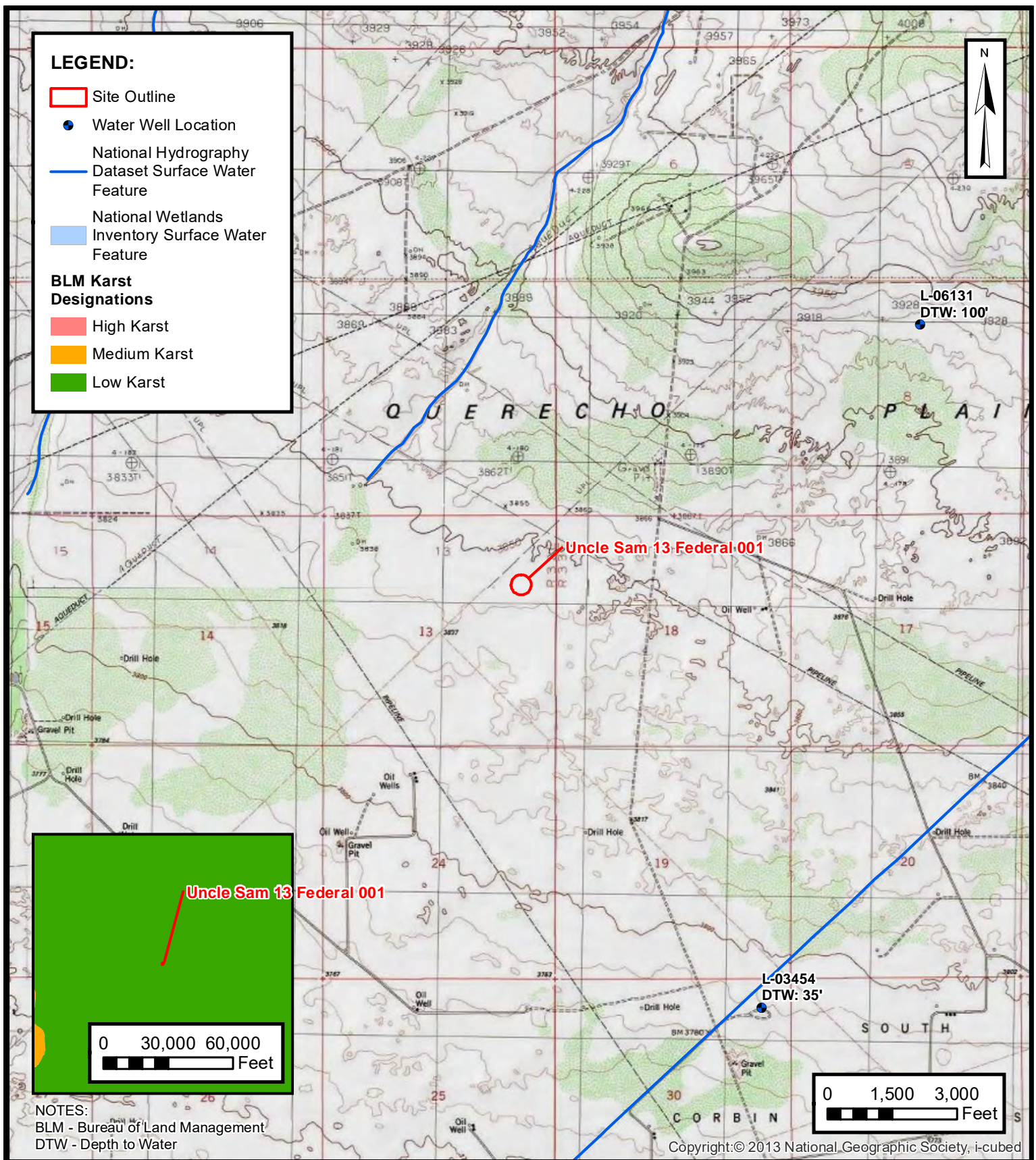
cc: Charles Beauvais, ConocoPhillips
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
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



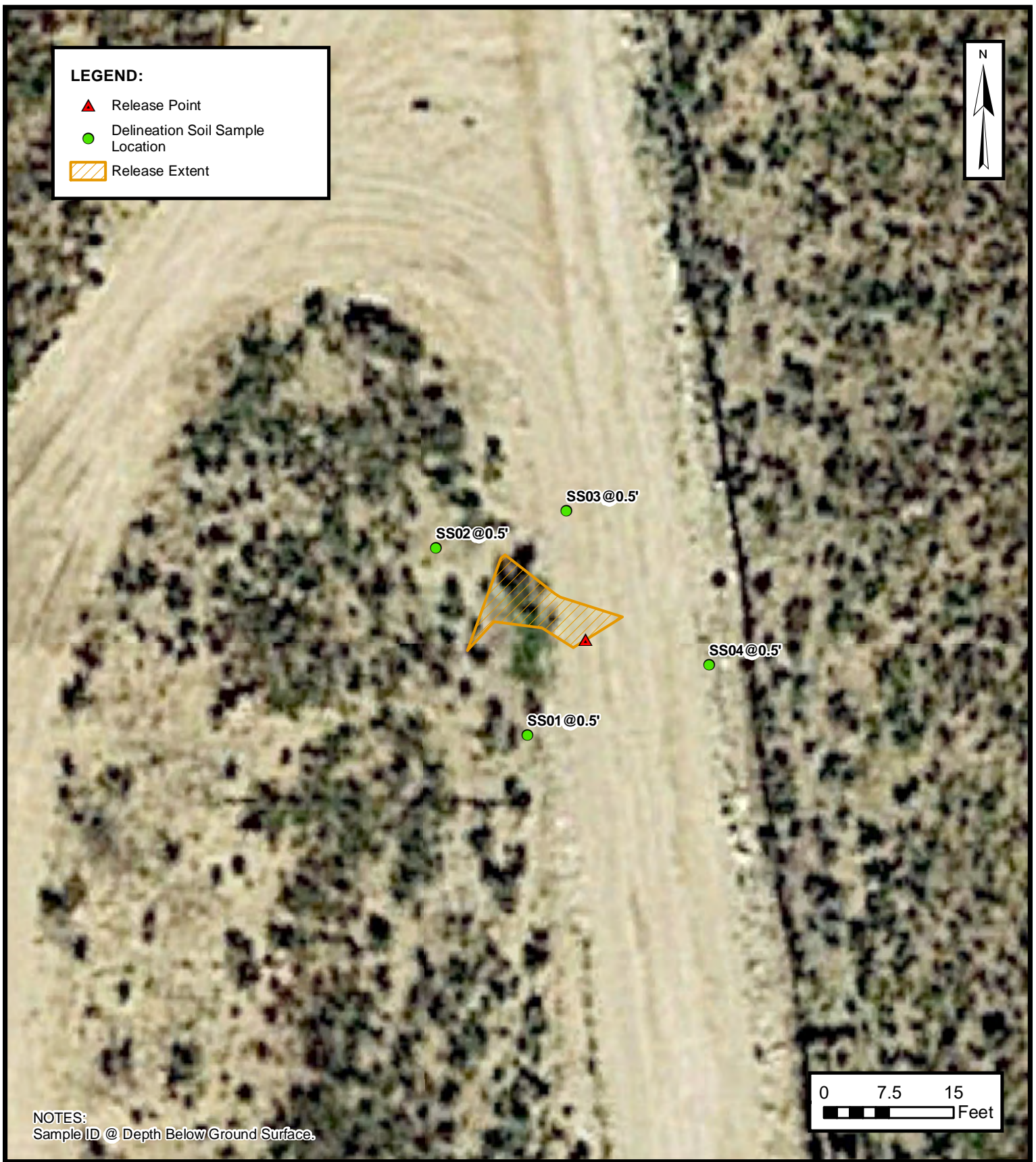
FIGURES



SITE LOCATION MAP

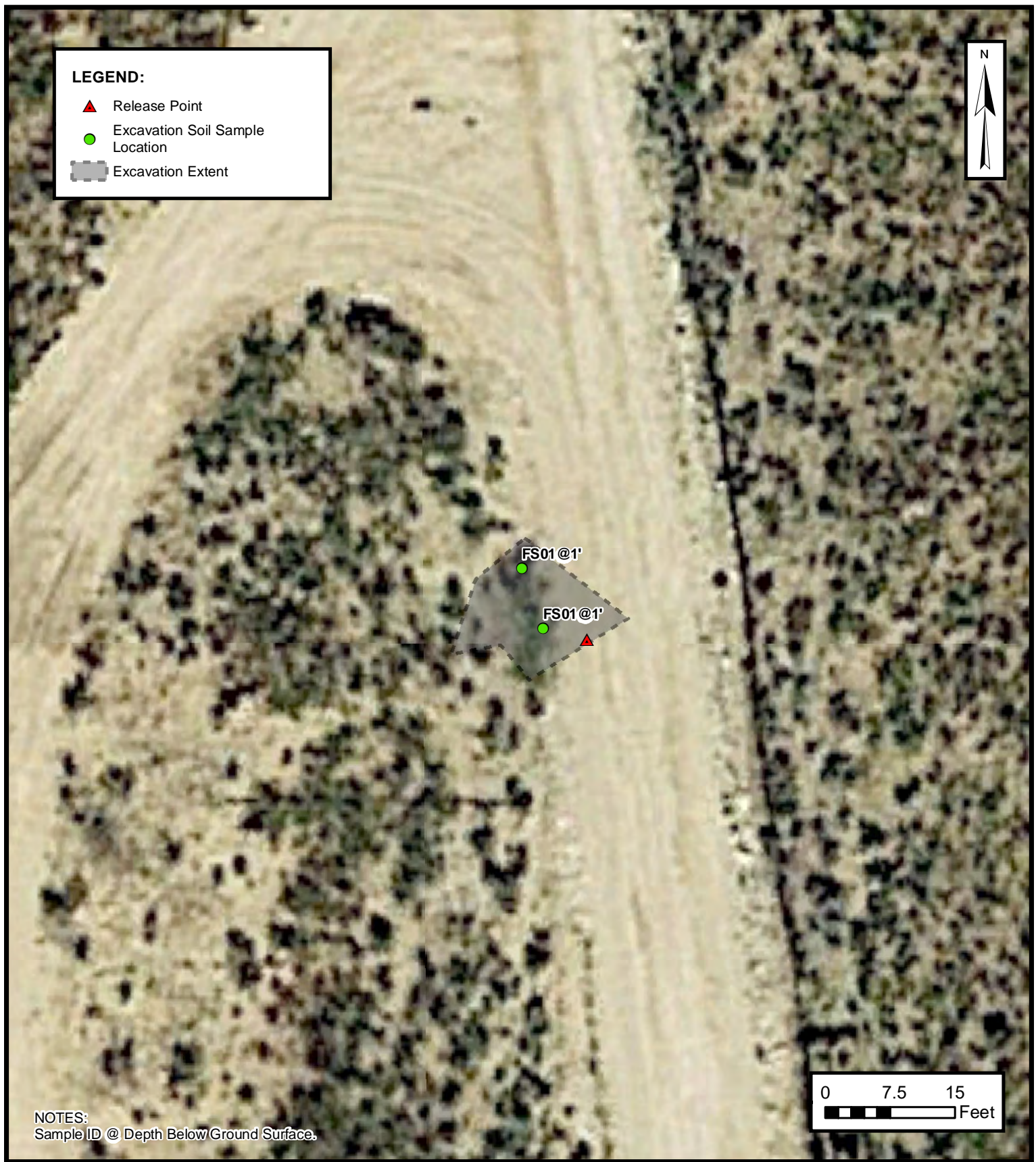
CONOCOPHILLIPS COMPANY
 UNCLE SAM 13 FEDERAL 001
 NAPP2204545095
 Unit H, Sec 13, T18S, R32E
 Lea County, New Mexico

FIGURE
1



DELINEATION SOIL SAMPLE LOCATIONS

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



EXCAVATION SOIL SAMPLE LOCATIONS

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

FIGURE
3



TABLES



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



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

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
get images	507170	72121	1967-04-28	PMT	LOG	L 06131	T		3	

Current Points of Diversion

(NAD83 UTM in meters)											
POD Number	Well Tag	Source	Q					X	Y	Other Location Desc	
			64	Q16	Q4	Sec	Tws				Rng
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	Rng	X	Y
L	06131	3	1	2	08	18S	33E	623241	3626167* 

Driller License: 99 **Driller Company:** O.R. MUSSELWHITE WATER WELL SE

Driller Name:

Drill Start Date: 04/27/1967 **Drill Finish Date:** 04/29/1967 **Plug Date:**

Log File Date: 05/02/1967 **PCW Rev Date:** **Source:** Shallow

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

Casing Size: 7.00 **Depth Well:** 194 feet **Depth Water:** 100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	130	135	Sandstone/Gravel/Conglomerate
	185	193	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	150	194

*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

POINT OF DIVERSION SUMMARY



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National Water Information System: Web Interface

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

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- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time 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 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 aquifers" (N9999OTHER) national aquifer.
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) (timeseries: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?](#)

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Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324458103454301)

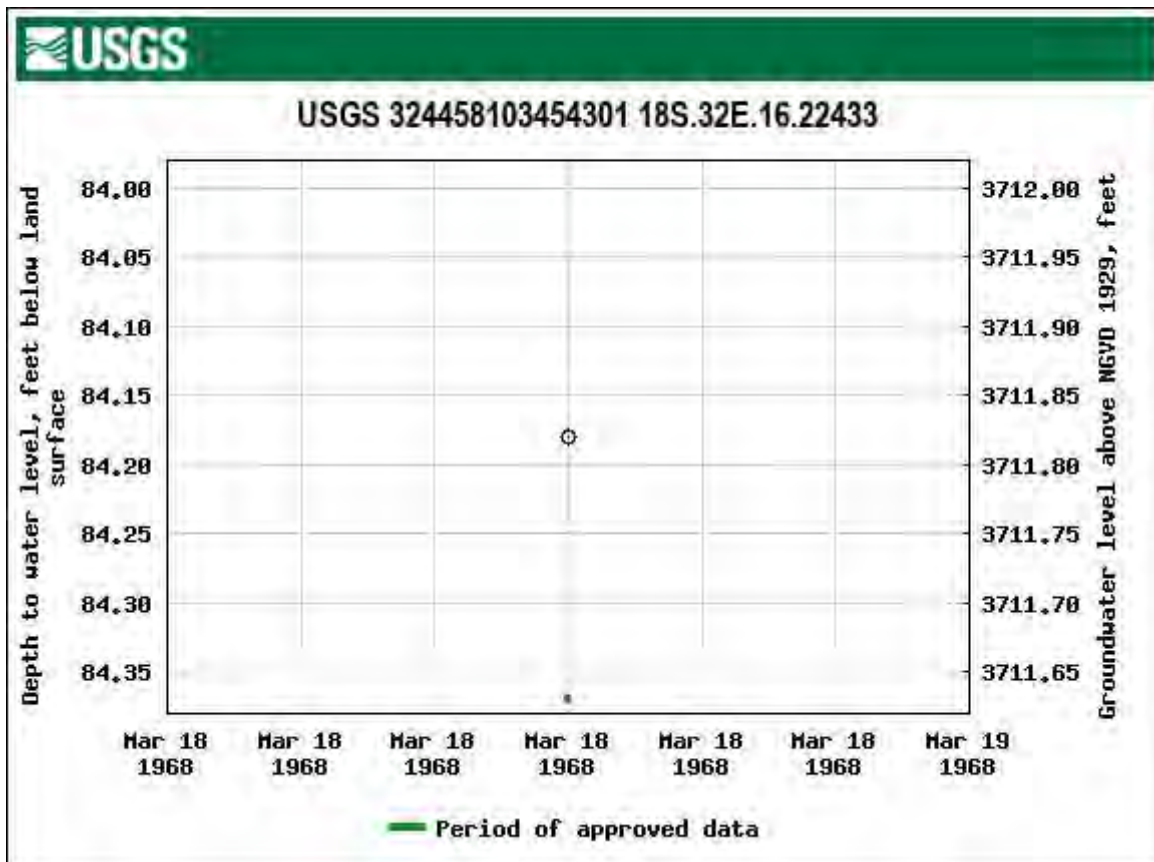
[agency_code=USGS&site_no=324458103454301](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324458103454301)



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

A handwritten signature in black ink that reads "Jessica Kramer".

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

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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www.eurofinsus.com/Env

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 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
F1	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
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
SQL	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

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.

Client Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
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

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

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 BTEX 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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 13:23	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 13:23	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 13:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	03/23/22 11:44	03/23/22 13:23	1
o-Terphenyl	94		70 - 130	03/23/22 11:44	03/23/22 13:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	54.9		5.00	mg/Kg			04/01/22 10:58	1

Eurofins Carlsbad

Surrogate Summary

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)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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 (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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2119-A-1-F MS	Matrix Spike	101	107
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106
890-2122-1	SS04	86	94
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (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.
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

Analyte	MB Result	MB 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

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

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

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22266

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

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

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

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22266

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
SDG: 3140320.000 TASK 45.02

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

Lab Sample ID: 890-2122-1 MS

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 22266

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: 890-2122-1 MSD

Matrix: Solid

Analysis Batch: 22323

Client Sample ID: SS04

Prep Type: Total/NA

Prep Batch: 22266

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

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

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

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

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22186

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

Surrogate	MB %Recovery	MB 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

Analysis Batch: 22176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22186

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

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QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
SDG: 3140320.000 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 C10-C28)	1000	935.4		mg/Kg		94	70 - 130	4	20		

	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

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	RPD	Limit
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	Qualifier	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 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-2125-A-1-G MS

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

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QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
SDG: 3140320.000 TASK 45.02

GC VOA

Prep Batch: 22266

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	5035	
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2122-1	SS04	Total/NA	Solid	8021B	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	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
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

Lab Chronicle

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
SDG: 3140320.000 TASK 45.02

Client Sample ID: SS04
Date Collected: 03/22/22 09:57
Date Received: 03/22/22 12:53

Lab Sample ID: 890-2122-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2122-1
SDG: 3140320.000 TASK 45.02

Laboratory: Eurofins Midland

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.

Job ID: 890-2122-1

Project/Site: UNCLE SAM 13 FEDERAL 001

SDG: 3140320.000 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: 890-2122-1
SDG: 3140320.000 TASK 45.02

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Work Order No:

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0390 San Antonio, TX (210) 509-3334
Midland, TX (432-704-5440) El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 833-3927
Hobbs, NM (575-392-7550)

Page 1 of 1

Project Manager:	Katei Jennings	Bill to: (if different)	Katei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Katei.jennings@wsp.com

Work Order Comments	
Program: UST/ST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____	

Project Name:	Uncle Sam 13 Federal 001	Turn Around
Project Number:	31403720.000 Task 45.02	Routine <input checked="" type="checkbox"/>
P.O. Number:		Rush:
Sampler's Name:	Payton Benner	Due Date:

SAMPLE RECEIPT		Temp Blank:	Yes	No	Wet Ice:	Yes	No
Temperature (°C):	20/1.8		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>	
Received Intact:	Yes No						
Cooler Custody Seals:	Yes No						
Sample Custody Seals:	Yes No						
		Thermometer ID					
		Correction Factor:					
		Total Containers:					

	ANALYSIS REQUEST	Work Order Notes
Number of Containers		
EPA 8015)		
(EPA 0=8021)		
e (EPA 300.0)		
	 880-21-22 Chain of Custody	TAT starts the day received by th lab, if received by 4:30pm

[illegible]

Total 200.7 / 6010		200.8 / 6020:	
Circle Method(s) and Metal(s) to be analyzed			
8RCRA	13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr I I Sn U V Zn
TCLP / SPLP 6010:	8RCRA	Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U	
		1631 / 245.1 / 7470 / 7471 : Hg	

(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 \$75,000 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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3/22/22 1253			

Revised Date 05/11/18 Row 20

Eurofins Carlebad

1089 N Canal St.
Carlsbad, NM 88220
Phone: 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Environment 'resting'

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2122-1

SDG Number: 3140320.000 TASK 45.02

Login Number: 2122

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-2122-1

SDG Number: 3140320.000 TASK 45.02

Login Number: 2122

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/23/22 10:55 AM

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: 890-2123-1

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

A handwritten signature in black ink that reads "Jessica Kramer".

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

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.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
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	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
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

Case Narrative

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
SDG: 31403720.000 task 45.02

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.

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
SDG: 31403720.000 task 45.02

Client Sample ID: SS03

Lab Sample ID: 890-2123-1

Date Collected: 03/22/22 09:55

Matrix: Solid

Date Received: 03/22/22 12:53

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

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 01:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 01:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 12:30	03/27/22 01:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 12:30	03/27/22 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	03/25/22 12:30	03/27/22 01:13	1
1,4-Difluorobenzene (Surr)	110		70 - 130	03/25/22 12:30	03/27/22 01:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/24/22 16:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7	mg/Kg		03/23/22 11:44	03/23/22 13:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/23/22 11:44	03/23/22 13:43	1
o-Terphenyl	98		70 - 130	03/23/22 11:44	03/23/22 13:43	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13.7		4.97	mg/Kg			04/01/22 11:06	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
SDG: 31403720.000 task 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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-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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (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			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (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

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22286

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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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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) (Continued)

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

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS 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 Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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

Prep Batch: 22186

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

Surrogate	MB %Recovery	MB 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

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 22176

Prep Batch: 22186

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

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
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 C10-C28)			1000	935.4		mg/Kg		94	70 - 130	4	20	
	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

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	RPD	Limit	
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	Qualifier	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 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: 890-2123-1

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

Prep Type: Soluble

Analyte	MB Result	MB 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-2125-A-1-G MS

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

Eurofins Carlsbad

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

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2123-1	SS03	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
890-2123-1	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	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

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

Job ID: 890-2123-1
SDG: 31403720.000 task 45.02

Client Sample ID: SS03
Date Collected: 03/22/22 09:55
Date Received: 03/22/22 12:53

Lab Sample ID: 890-2123-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Uncle Sam 13 Federal 001

Job ID: 890-2123-1
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	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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

Chain of Custody

Work Order No.:

Page 1 of 1

Project Manager:		Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:		WSP USA	Company Name:	WSP USA
Address:		3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:		Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:		817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>	
State of Project:	
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/>	
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:	

[illegible]

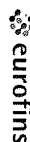
Eurofins Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

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

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2123-1

SDG Number: 31403720.000 task 45.02

Login Number: 2123

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-2123-1

SDG Number: 31403720.000 task 45.02

Login Number: 2123

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/23/22 10:55 AM

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: 890-2124-1

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

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:
4/1/2022 6:08:27 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.

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 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	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
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
SQL	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

Case Narrative

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2124-1
SDG: 31403720.000 TASK 45.02

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.

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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

Method: 8021B - Volatile Organic Compounds (GC)

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	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 01:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 12:30	03/27/22 01:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/25/22 12:30	03/27/22 01:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	03/25/22 12:30	03/27/22 01:33	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/25/22 12:30	03/27/22 01:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/28/22 13:11	1

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

Analyte	Result	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 Range Organics (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 14:04	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:04	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	03/23/22 11:44	03/23/22 14:04	1
o-Terphenyl	90		70 - 130	03/23/22 11:44	03/23/22 14:04	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5.06		5.00	mg/Kg			04/01/22 11:15	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2124-1
SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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-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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2119-A-1-F MS	Matrix Spike	101	107
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106
890-2124-1	SS02	82	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (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.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Eurofins Carlsbad

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

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

Client Sample ID: Matrix Spike

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS 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 Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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

Prep Batch: 22186

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

Surrogate	MB %Recovery	MB 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

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 22176

Prep Batch: 22186

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

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
o-Terphenyl	100		70 - 130

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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	Qualifier	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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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

Analyte	MB Result	MB 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-2125-A-1-G MS

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
SDG: 31403720.000 TASK 45.02

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2124-1	SS02	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
890-2124-1	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	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2124-1
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
890-2124-1	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

Lab Chronicle

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERL 001

Job ID: 890-2124-1
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	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Method Summary

Client: WSP USA Inc.

Job ID: 890-2124-1

Project/Site: UNCLE SAM 13 FEDERL 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

Eurofins Carlsbad

Sample Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334
Midland, TX (432) 704-5440 EL Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Work Order No: _____

www.xenco.com Page _____ of _____

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Program: UST/ST	<input type="checkbox"/> PRP	<input type="checkbox"/> Brownfields	<input type="checkbox"/> RC	<input type="checkbox"/> Superfund
State of Project:				
Reporting Level II	<input type="checkbox"/> Level III	<input type="checkbox"/> ST/UST	<input type="checkbox"/> RRP	<input type="checkbox"/> Level IV
Deliverables: EDD	<input type="checkbox"/> ADAPT	<input type="checkbox"/> Other:		

Project Name:	Uncle Sam 13 Federal 001	Turn Around	<input checked="" type="checkbox"/>
Project Number:	31403720.000 Task 45.02	Routine	<input checked="" type="checkbox"/>
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
Temperature (°C):	2.0 / 1.8	Thermometer ID				TWML007
Received In tact:	Yes	No		Correction Factor:	-0.2	
Cooler Custody Seals:	Yes	No	N/A	Total Containers:		
Sample Custody Seals:	Yes	No	N/A			

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST										Work Order Notes
SS02	S	03/22/22	9:52	0.5	1	X	X	X											
															TAT starts the day received by the lab, if received by 4:30pm				
															Sample Comments				
															DISCRETE				



890-2124 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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.

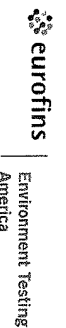
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>yo bennett</i>	<i>Clarke</i>	3/22/22 1:53 ²			
3					
5					

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- 12
- 13
- 14

Eurofins Carlsbad

1089 N Canal St.
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



Client Information (Sub Contract Lab)		Sampler	Lab PM:	Carrier Tracking No(s)	COC No:								
Client Contact		Phone	Kramer, Jessica		890-682 1								
Shipping/Receiving			E-Mail: jessica.kramer@eurofins.com	State of Origin	Page: Page 1 of 1								
Company			Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	New Mexico	Job #:								
Eurofins Environment Testing South Cent		Due Date Requested	890-2124-1										
Address		3/28/2022	Preservation Codes										
City		TAT Requested (days):	A. HCL M. Hexane										
Midland			B. NaOH N. None										
State, Zip			C. Zn Acetate O. AsNaO2										
TX, 79701			D. Nitric Acid P. Na2O4S										
Phone		PO #:	E. NaHSO4 Q. Na2SO3										
432-704-5440(Tel)		WO #:	F. MeOH R. Na2S2O3										
Email		Project #	G. Amnolier S. H2SO4										
		89000048	H. Ascorbic Acid T. TSP Dodecylhydrate										
Project Name		SSOV#:	I. Ice U. Acetone										
UNCLE SAM 13 FEDERL 001			J. DI Water V. MCAA										
Site:			K. EDTA W. pH 4-5										
			L. EDA Z. Other (specify)										
			Other:										
Sample Identification - Client ID (Lab ID)		Sample Date	Sample Time	Sample Type (G=grab, B=Issue, A=Ali)	Matrix (Weaver Serial, Orwashell, B=Issue, A=Ali)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Analysis Requested		Total Number of containers	Special Instructions/Note:		
SS02 (890-2124-1)		3/22/22	09 52		Solid			X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon our 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/test/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 compliance to Eurofins Environment Testing South Central, LLC.													
Possible Hazard Identification													
Unconfirmed													
Deliverable Requested I, II, III, IV Other (specify) Primary Deliverable Rank: 2													
Empty Kit Relinquished by: Date: Time: Method of Shipment:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Relinquished by: Date/Time: Company: Received by: Date/Time: Company:													
Custody Seals Intact: Custody Seal No													
Cooler Temperature(s) °C and Other Remarks: 3.2/3.1													

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2124-1

SDG Number: 31403720.000 TASK 45.02

Login Number: 2124

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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: 890-2124-1

SDG Number: 31403720.000 TASK 45.02

Login Number: 2124

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/23/22 10:55 AM

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: 890-2125-1

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

A handwritten signature in black ink that reads "Jessica Kramer".

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

Jessica Kramer, Project Manager
(432)704-5440
jessica.kramer@eurofinset.com

LINKS

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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.

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
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
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
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

Case Narrative

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
SDG: 31403720.000 TASK 45.02

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.

HPLC/IC

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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

Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	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 BTEX 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 Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/24/22 16:08	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/23/22 11:44	03/23/22 14:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/23/22 11:44	03/23/22 14:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/23/22 11:44	03/23/22 14:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	03/23/22 11:44	03/23/22 14:25	1
o-Terphenyl	95		70 - 130	03/23/22 11:44	03/23/22 14:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	49.6		5.00	mg/Kg			04/01/22 11:24	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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-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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2119-A-1-F MS	Matrix Spike	101	107
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106
890-2125-1	SS01	86	95
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (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.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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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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

Prep Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

Surrogate	MS %Recovery	MS 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 Type: Total/NA

Analysis Batch: 22424

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	MSD %Recovery	MSD 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

Prep Batch: 22186

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

Surrogate	MB %Recovery	MB 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

Client Sample ID: Lab Control Sample

Matrix: Solid

Prep Type: Total/NA

Analysis Batch: 22176

Prep Batch: 22186

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

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QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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 C10-C28)	1000	935.4		mg/Kg		94	70 - 130	4	20			

	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

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	RPD	Limit
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	Qualifier	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 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: 890-2125-1

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

Prep Type: Soluble

Analyte	MB Result	MB 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-2125-1 MS

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: SS01

Prep Type: Soluble

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

Lab Sample ID: 890-2125-1 MSD

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: SS01

Prep Type: Soluble

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

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2125-1	SS01	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: 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	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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
890-2125-1 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

Lab Chronicle

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
SDG: 31403720.000 TASK 45.02

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

Lab Sample ID: 890-2125-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2125-1
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	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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

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

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



Chain of Custody

Work Order No:

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
(575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (81

Page 1 of 1
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Project Manager:	Katei Jennings	Bill to: (if different)	Katei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Katei.jennings@wsp.com

Work Order Comments	
Program: UST/ST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level I <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> PRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

[illegible]

Environment Testing

Environment Testing

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2125-1

SDG Number: 31403720.000 TASK 45.02

Login Number: 2125

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Number: 2125

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 03/23/22 10:55 AM

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

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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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 FEDERAL 001

Laboratory Job ID: 890-2126-1
SDG: 31403720.000 TASK 45.02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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	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
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

Case Narrative

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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

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.

HPLC/IC

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

Client Sample Results

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

Date Collected: 03/22/22 09:15

Matrix: Solid

Date Received: 03/22/22 12:53

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

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 BTEX Calculation

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 Range Organics (DRO) (GC)

Analyte	Result	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 Range Organics (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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 11:44	03/23/22 14:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	03/23/22 11:44	03/23/22 14:45	1
o-Terphenyl	99		70 - 130	03/23/22 11:44	03/23/22 14:45	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	532		5.02	mg/Kg			04/01/22 11:51	1

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

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

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

Eurofins Carlsbad

Client Sample Results

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: FS02

Lab Sample ID: 890-2126-2

Date Collected: 03/22/22 09:17

Matrix: Solid

Date Received: 03/22/22 12:53

Sample Depth: 1

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

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 BTEX 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	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 15:06	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 15:06	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/23/22 11:44	03/23/22 15:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	83		70 - 130			03/23/22 11:44	03/23/22 15:06	1
o-Terphenyl	90		70 - 130			03/23/22 11:44	03/23/22 15:06	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	556		4.98	mg/Kg			04/19/22 18:38	1

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
SDG: 31403720.000 TASK 45.02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (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
Surrogate Legend			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2119-A-1-F MS	Matrix Spike	101	107
890-2119-A-1-G MSD	Matrix Spike Duplicate	100	106
890-2126-1	FS01	89	99
890-2126-2	FS02	83	90
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (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			

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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

Analyte	MB Result	MB 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

Surrogate	MB %Recovery	MB 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

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

Surrogate	LCS %Recovery	LCS 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

Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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

Surrogate	LCSD %Recovery	LCSD 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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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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QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
SDG: 31403720.000 TASK 45.02

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

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%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

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

Lab Sample ID: 880-12547-A-1-V MSD

Matrix: Solid

Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22286

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%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

Surrogate	MSD %Recovery	MSD 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

Matrix: Solid

Analysis Batch: 22176

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22186

Analyte	MB Result	MB 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
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/23/22 08:44	03/23/22 10:59	1

Surrogate	MB %Recovery	MB 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

Analysis Batch: 22176

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22186

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

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QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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
o-Terphenyl	100		70 - 130

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

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
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	Qualifier	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

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	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.
Project/Site: UNCLE SAM 13 FEDERAL 001

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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB 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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

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

Lab Sample ID: 890-2125-A-1-G MS

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 22735

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

Lab Sample ID: MB 880-23725/1-A

Matrix: Solid

Analysis Batch: 23785

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	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

Matrix: Solid

Analysis Batch: 23785

Client Sample ID: Lab Control Sample

Prep Type: Soluble

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

Lab Sample ID: LCSD 880-23725/3-A

Matrix: Solid

Analysis Batch: 23785

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.1		mg/Kg		97	90 - 110	0	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
SDG: 31403720.000 TASK 45.02

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-13759-A-12-C MS

Matrix: Solid

Analysis Batch: 23785

Client Sample ID: Matrix Spike

Prep Type: Soluble

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

Lab Sample ID: 880-13759-A-12-D MSD

Matrix: Solid

Analysis Batch: 23785

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

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

QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
SDG: 31403720.000 TASK 45.02

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2126-1	FS01	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	
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

Lab Chronicle

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

Date Collected: 03/22/22 09:15

Matrix: Solid

Date Received: 03/22/22 12:53

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared 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	CH	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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: UNCLE SAM 13 FEDERAL 001

Job ID: 890-2126-1
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	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: 890-2126-1
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: 890-2126-1
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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14



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

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Chain of Custody

Work Order No:

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP USA	Company Name:	WSP USA
Address:	3300 North A Street Building 1, unit 222	Address:	3300 North A Street Building 1, unit 222
City, State ZIP:	Midland, Texas 79705	City, State ZIP:	Midland, Texas 79705
Phone:	817-683-2503	Email:	Kalei.jennings@wsp.com

Work Order Comments	
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RRP <input type="checkbox"/> vel IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:	

Project Name:	Uncle Sam 13 Federal 001	Turn Around
Project Number:	31403720 000 Task 45 02	Routine <input checked="" type="checkbox"/>
P.O. Number:		Rush:
Sampler's Name:	Payton Benner	Due Date:

SAMPLE RECEIPT		Temp Blank:	<input checked="" type="radio"/> Yes	<input type="radio"/> No	Wat Ice:	<input checked="" type="radio"/> Yes	<input type="radio"/> No
Temperature (°C):	20/1.8	Thermometer ID					
Received Intact:	<input checked="" type="radio"/> Yes <input type="radio"/> No						
Cooler Custody Seals:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Correction Factor:	-0.2				
Sample Custody Seals:	Yes <input type="radio"/> No <input checked="" type="radio"/>	Total Containers:					

[illegible]

Total 200.7 / 6010 200.8 / 6020:
Circle Method(s) and Metal(s) to be analyzed

8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
 TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471 : Hg

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.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	3/22/22 12:58			

Revised: Date 05/16/16 Rev 2016

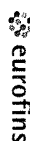
Eurofins Carlsbad

1089 N Canal St.

Carlsbad, NM 88220

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

Chain of Custody Record



Environment Testing America

[illegible]

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2126-1

SDG Number: 31403720.000 TASK 45.02

Login Number: 2126**List Number: 1****Creator: Clifton, Cloe****List Source: Eurofins Carlsbad**

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: 890-2126-1

SDG Number: 31403720.000 TASK 45.02

Login Number: 2126**List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Midland****List Creation: 03/23/22 10:55 AM**

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	



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 Release Source

Latitude 32.750278 Longitude -103.713889
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Uncle Sam 13 Federal 001	Site Type	Tank Battery
Date Release Discovered	January 28, 2022	API# (if applicable)	

Unit Letter	Section	Township	Range	County
H	13	18S	32E	Lea

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 0.094	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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.

Incident ID	NAPP2204545095
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? 	

Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why: 	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name Brittany N. Esparza	Title: Environmental Technician
Signature: 	Date: 2/14/2022
email: Brittany.Esparza@ConocoPhillips.com	Telephone: (432) 221-0398
<u>OCD Only</u> Received by: Ramona Marcus Date: 2/15/2022	

L48 Spill Volume Estimate Form

Received by OCD: 6/24/2022 9:34:44 AM

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Asset Area: DBE

Release Discovery Date & Time: 1/28/2022

NAPP2204545095

Release Type: Produced Water

Provide any known details about the event: flow line leak

Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	5.0	6.0	0.50	3	30.000	0.014	0.074	0.001	0.074
Rectangle B	1.0	8.0	0.50	3	8.000	0.014	0.020	0.001	0.020
Rectangle C					0.000	#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!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume Release:									0.094

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

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
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811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 81343

CONDITIONS

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

CONDITIONS

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

Incident ID	NAPP2204545095
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NAPP2204545095
District RP	
Facility ID	
Application ID	

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

Printed Name: Charles Beauvais Title: Senior Environmental Engineer
Signature: Charles R. Beauvais Date: 06/06/2022
email: Charles.R.Beauvais@conocophillips.com Telephone: (575) 988-2043

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2204545095
District RP	
Facility ID	
Application ID	

Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Charles Beauvais Title: Senior Environmental Engineer
Signature: Charles R. Beauvais II Date: 06/06/2022
email: Charles.R.Beauvais@conocophillips.com Telephone: 575) 988-2043

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 07/06/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A

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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 120268

CONDITIONS

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

CONDITIONS

Created By	Condition	Condition Date
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.	7/6/2022