wsp

WSP USA

3300 North "A" Street Building 1, Unit 222 Midland, Texas 79705 432.704.5178

November 5, 2021

District I New Mexico Oil Conservation Division 1625 N. French Drive Hobbs, New Mexico 88240

RE: Closure Request
EVGSAU 0546-119
Incident Number NAPP2129840173
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of ConocoPhillips Company (Conoco), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the EVGSAU 0546-119 (Site) located in Unit N, Section 25, Township 25 South, Range 33 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water onto the lease road at the Site. Based on excavation activities and confirmation soil sample laboratory analytical results, Conoco is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2129840173.

#### **RELEASE BACKGROUND**

On August 11, 2021, corrosion of a flowline resulted in the release of approximately 2 barrels (bbls) of produced water and 3.6 bbls of crude oil onto the lease road. A vacuum truck was dispatched to remove free-standing fluids; approximately 3 bbls of crude oil were recovered. Conoco reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141). The release was assigned Incident Number NAPP2129840173.

#### SITE CHARACTERIZATION

WSP characterized the Site 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). Depth to groundwater at the Site is estimated to be between 51-100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is NMOSE well L-04829, located approximately 0.06 miles west of the Site. The groundwater well has a reported depth to groundwater of 85 feet bgs and a total depth of 198 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Attachment 1.



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The closest continuously flowing water or significant watercourse to the Site is an Emergent Palustrine, located approximately 1,182 feet west 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.

#### **CLOSURE CRITERIA**

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

#### SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 29, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Preliminary 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 preliminary soil samples SS01 through SS05 indicated that TPH and/or TPH-GRO/TPH-DRO concentrations exceeded the Closure Criteria. Based on visible



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staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, excavation activities were warranted.

#### **EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS**

On October 28, 2021, WSP personnel returned to the Site to oversee excavation activities as indicated by surficial staining in the release footprint and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a track hoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively.

Following removal of impacted soil, WSP collected 5-point composite soil samples 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 floor samples FS01 through FS05 were collected from the floor of the excavation from a depth of approximately 1.5 feet bgs. Due to the shallow depth of the excavation, the floor samples are also representative of the excavation sidewalls. 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. Photographic documentation is included in Attachment 2.

The excavation area measured approximately 892 square feet. A total of approximately 50 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at R360 disposal facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

Laboratory analytical results for excavation floor samples FS01 through FS05, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

#### **CLOSURE REQUEST**

Site assessment and excavation activities were conducted to address the August 11, 2021 release of crude oil and produced water at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria and compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Conoco backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.



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Depth to groundwater at the Site is estimated to be between 51-100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Conoco believe these remedial actions are protective of human health, the environment, and groundwater. As such, Conoco respectfully requests no further action for Incident Number NAPP2129840173. The final Form C-141 is included in Attachment 4.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.

Sincerely,

WSP USA Inc.

Kalei Jennings

**Associate Consultant** 

Kalli Jannings

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kelsy Waggaman, ConocoPhillips Company

Bureau of Land Management

#### Attachments:

Figure 1 Site Location Map

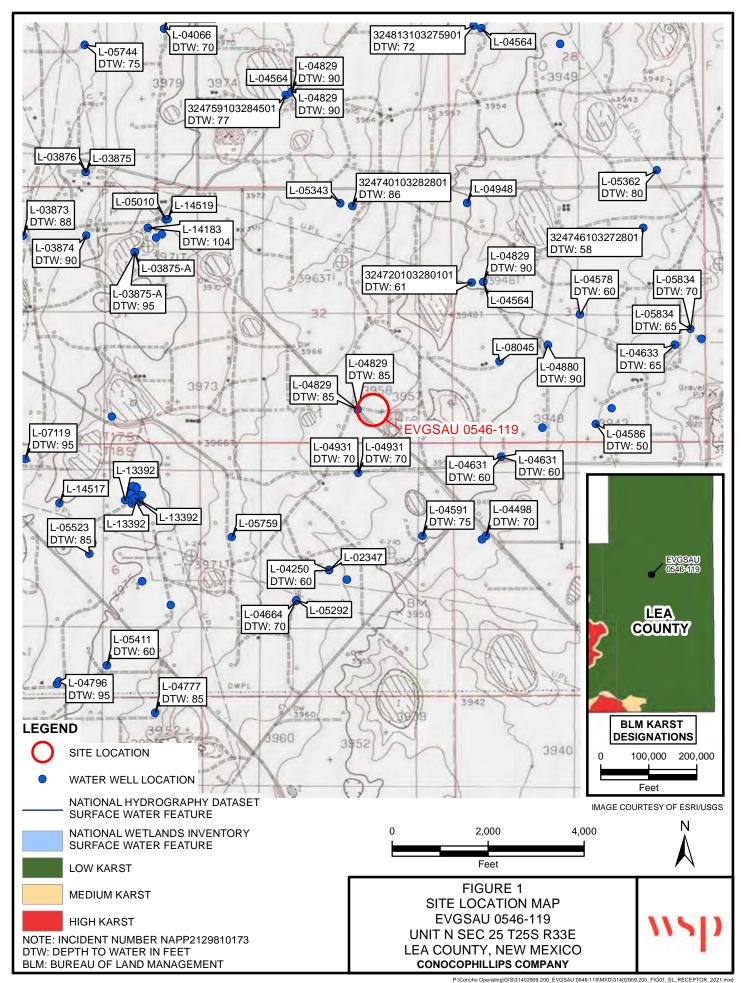
Figure 2 Preliminary Soil Sample Locations
Figure 3 Excavation Soil Sample Locations

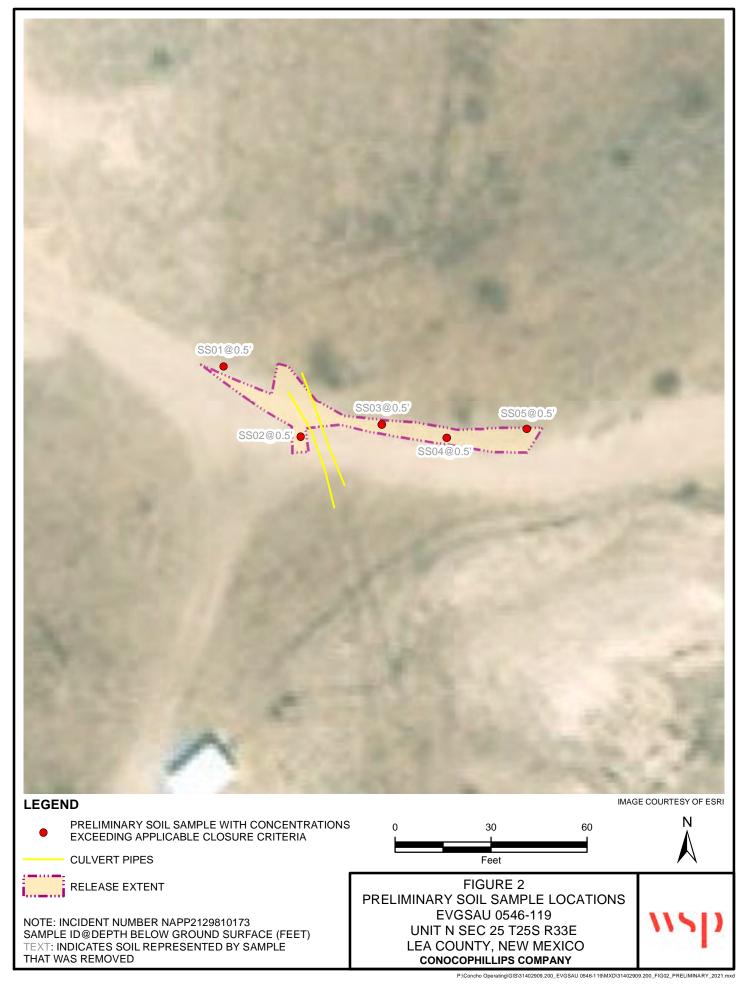
Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

Attachment 2 Photographic Log

Attachment 3 Laboratory Analytical Reports

Attachment 4 Final C-141





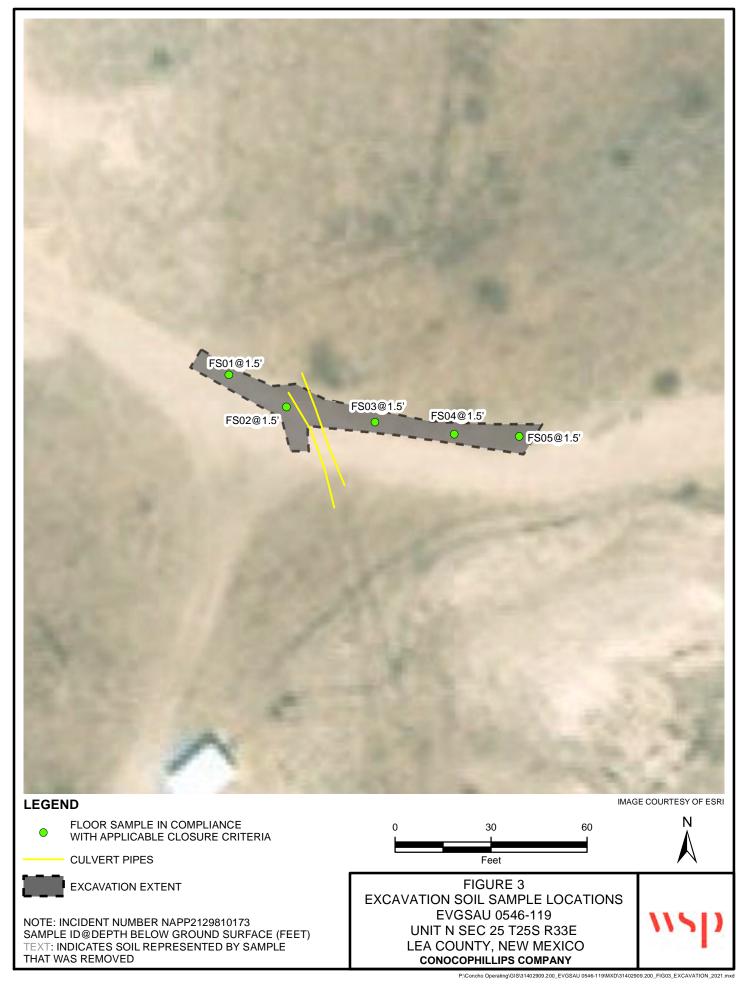


Table 1

#### Soil Analytical Results EVGSAU 0546-119 Incident Number NAPP2129840173 ConocoPhillips Company Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Surface Samples										
SS01	09/29/2021	0.5	< 0.00201	< 0.00200	4,740	<250	<250	4,740	4,740	830
SS02	09/29/2021	0.5	< 0.00200	< 0.00200	16,400	<249	<249	16,400	16,400	1,260
SS03	09/29/2021	0.5	< 0.00200	< 0.00200	6,010	<249	<249	6,010	6,010	3,310
SS04	09/29/2021	0.5	< 0.00199	< 0.00200	2,230	<250	<250	2,230	2,230	6,600
SS05	09/29/2021	0.5	< 0.00200	< 0.00200	3,010	<250	<250	3,010	3,010	1,600
Excavation Floor Sa	imples									
FS01	10/28/2021	1.5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	268
FS02	10/28/2021	1.5	< 0.00198	< 0.00396	73.8	<49.9	<49.9	73.8	73.8	236
FS03	10/28/2021	1.5	< 0.00200	< 0.00400	50.1	< 50.0	<50.0	50.1	50.1	342
FS04	10/28/2021	1.5	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	223
FS05	10/28/2021	1.5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	245

#### Notes

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard

Text

impacted soil was excavated



# New Mexico Office of the State Engineer

# **Water Right Summary**

**WR File Number:** 

L 07695

Subbasin: L

Cross Reference: -

**Primary Purpose:** 

SRO

SECONDARY RECOVERY OF OIL

**Primary Status:** 

**PMT** 

**PERMIT** 

**Total Acres:** 

0

**Subfile:** 

Header: -

**Total Diversion:** 

Cause/Case: -

PHILLIPS PETROLEUM COMPANY

#### **Documents on File**

				Sta	itus		From/			
	Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
g <u>et</u> nages	532474	COMB	1979-08-13	PMT	PBU	L-4829, L-7695 & L-7816- COMB	F	0	480	
g <u>et</u> nages	488415	APPRO	1978-07-24	PMT	PCW	L 07695	T	0	480	

#### **Current Points of Diversion**

(NAD83 UTM in meters)

**POD Number** L 04829 S

Shallow

Well Tag Source 64Q16Q4Sec Tws Rng 3 4 32 17S 35E

 $\mathbf{X}$ 642554 3628586\*

Other Location Desc

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

#### **Priority Summary**

Priority	Status	Acres	Diversion	Pod Number	
05/05/1977	PMT	0	480	<u>L 04829 S</u>	Shallow

#### Place of Use

QQ				
256 64 Q16 Q4Sec Tws Rng	Acres	Diversion	CU Use Priority	<b>Status Other Location Desc</b>
04 18S 35E	0	0	SRO 05/05/1977	TRN SEE PREVIOUS
				DESCRIPTION FOR TOTAL
				DIVERSION PERMITTED.
05 18S 35E	0	0	SRO 05/05/1977	TRN SEE PREVIOUS
				DESCRIPTION FOR TOTAL
				DIVERSION PERMITTED.
18 17S 35E	0	0	SRO 05/05/1977	TRN SEE PREVIOUS

Source		A	cres 0	<b>Diversion</b> 0	CU	Use SRO	<b>Priority</b> 05/05/1977	Source Description	1	
	1 x	3	05	18S 35E	0		0	SRO 05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
		4	24	17S 34E	0		0	SRO 05/05/1977	TRN	DIVERSION PERMITTED.
		3	18	17S 35E	0		0	SRO 05/05/1977	TRN	DESCRIPTION FOR TOTAL DIVERSION PERMITTED. SEE PREVIOUS DESCRIPTION FOR TOTAL
			35	17S 34E	0		0	SRO 05/05/1977	TRN	DESCRIPTION FOR TOTAL DIVERSION PERMITTED. SEE PREVIOUS

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.

11/2/21 3:29 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

L 04829 S

4 32 17S 35E

642554 3628586\*

**Driller License: 46 Driller Company:** 

ABBOTT BROTHERS COMPANY

**Driller Name:** 

MURRELL ABBOTT

**Drill Start Date:** 05/04/1979 **Drill Finish Date:** 

05/14/1979

**Plug Date:** 

Log File Date:

06/06/1979

**PCW Rcv Date:** 

06/06/1979

Source:

Shallow

**Pump Type:** 

**TURBIN** 

**Pipe Discharge Size:** 

**Estimated Yield:** 

**Casing Size:** 

12.75

**Depth Well:** 

198 feet

**Depth Water:** 

85 feet

**Water Bearing Stratifications:** 

Top Bottom Description

85

198 Sandstone/Gravel/Conglomerate

**Casing Perforations:** 

Top Bottom

115 195

**Meter Number:** 

8632

**Meter Make:** 

**BROKS** 

Meter Serial Number: 78092085223

Meter Multiplier:

10.0000

**Number of Dials:** 

**Meter Type:** Diversion

**Unit of Measure: Usage Multiplier:**  Barrels 42 gal.

**Return Flow Percent:** Reading Frequency:

Quarterly

**Meter Readings (in Acre-Feet)** 

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
01/01/2005	2005	0	A	jw	0
03/31/2005	2005	944409	A	jw	121.728
08/08/2005	2005	217766	R	jw Meter Rollover	352.339
09/30/2005	2005	548362	A	RPT	426.116

**YTD Meter Amounts: Year Amount 2005 1636.189 2006 166.486	12/31/2005 03/31/2006	2005 2006	119382 248548	R A	RPT N RPT	Meter Rollover	736.006 166.486
		er Amounts:	2005		1636.189		

<sup>\*</sup>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, or suitability for any particular purpose of the data.

11/2/21 3:34 PM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

#### **National Water Information System: Web Interface**

**USGS Water Resources** (Cooperator Access)

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

#### Click to hideNews Bulletins

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

## USGS 324720103280101 17S.35E.33.13321

Available data for this site SUMMARY OF ALL AVAILABLE DATA 
GO

#### **Well Site**

#### **DESCRIPTION:**

Latitude 32°47'35", Longitude 103°28'10" NAD27 Lea County, New Mexico , Hydrologic Unit 12080003

Well depth: 220 feet

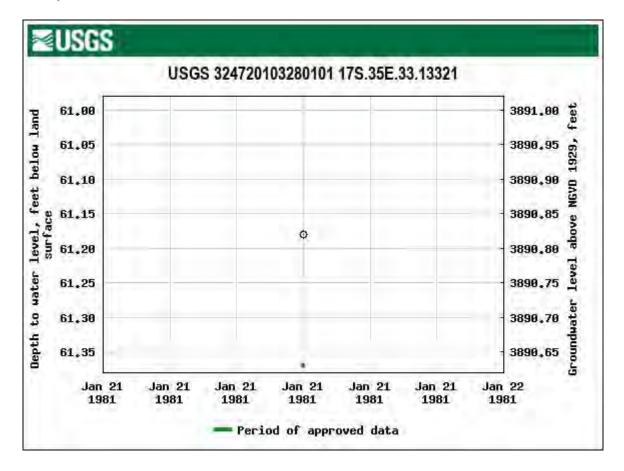
Land surface altitude: 3,952.00 feet above NGVD29.

Well completed in "High Plains aguifer" (N100HGHPLN) national aguifer.

Well completed in "Ogallala Formation" (1210GLL) local aquifer

#### **AVAILABLE DATA:**

Data Type	<b>Begin Date</b>	End Date	Count
Field groundwater-level measurements	1981-01-21	1981-01-21	1
Revisions	Unavailable (	site:0) (timese	eries:0)





	PHOTOGRAPHIC LOG	
CONOCOPHILLIPS COMPANY	EVGSAU 0546-119	NAPP2129840173
	Lea County, New Mexico	

Photo No.	Date	E SE 150
1	August 11, 2021	© 117°E (T) ⊚ 32.785951, -103.476703 ±4 m ▲ 1190 m
w of relea	se extent facing	
sou	theast.	
		11 Aug 2021 11:18:15

Photo No.	Date	W 1 W N 0
2	August 11, 2021	• 313°NW (T) • 32.785945,-103.47671 ±3 m ▲ 1187 m
View of rele	ase extent facing	
nor	thwest.	- and a second of the second o
		S. C.
		111. A2TO 2021. 111-11302



PHOTOGRAPHIC LOG				
CONOCOPHILLIPS COMPANY	NAPP2129840173			

Photo No.	Date
3	September 29, 2021
Photo of release initial site assess	_



Photo No.	Date		
4	September 29,		
•	2021		
Photo of release	extent during		
initial site assessment.			





PHOTOGRAPHIC LOG				
CONOCOPHILLIPS COMPANY	NAPP2129840173			
	Lea County, New Mexico			

Photo No.	Date				
5	October 29, 2021				
East facing photo during					
excavation activities.					



Photo No.	Date
6	October 29, 2021
West facing	photo during
excavation	n activities.





# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1332-1

Laboratory Sample Delivery Group: 31402909.19

Client Project/Site: EVGSAU 0546-119

For:

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

Attn: Kalei Jennings

J. KRAMER

Authorized for release by: 10/5/2021 12:02:41 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

IOIGI7 ICCC

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/8/2021 9:36:52 AM

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

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

1

3

6

8

9

11

13

14

Client: WSP USA Inc. Laboratory Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119

SDG: 31402909.19

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#### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119

SDG: 31402909.19

**Qualifiers** 

**GC VOA** Qualifier

**Qualifier Description** F1 MS and/or MSD recovery exceeds control limits. S1+ Surrogate recovery exceeds control limits, high biased.

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

**PQL Practical Quantitation Limit** 

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc. Job ID: 890-1332-1

Project/Site: EVGSAU 0546-119 SDG: 31402909.19

Job ID: 890-1332-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1332-1

#### Receipt

The samples were received on 9/29/2021 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice.

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8658 and 880-8658 and analytical batch 880-8712 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.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS03 (890-1332-3) and SS05 (890-1332-5). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

#### HPLC/IC

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

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119 SDG: 31402909.19

**Client Sample ID: SS01** 

Lab Sample ID: 890-1332-1 Date Collected: 09/29/21 11:47 Matrix: Solid Date Received: 09/29/21 14:15

Sample Depth: 0.5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Toluene	< 0.00201	U	0.00201	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			09/30/21 11:52	10/03/21 03:05	1
1,4-Difluorobenzene (Surr)	82		70 - 130			09/30/21 11:52	10/03/21 03:05	1
- Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1
Analyte Total TPH	4740	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
IUIAI IFII	4/40		50.0	ma/Ka			10/05/21 10:03	
_			50.0	mg/Kg			10/05/21 10:03	1
	• •							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	• •	Qualifier			D	Prepared 09/30/21 15:58		Dil Fac
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over	Result	Qualifier	RL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <250	Qualifier U	RL 250	<mark>Unit</mark> mg/Kg	<u> </u>	09/30/21 15:58	Analyzed 10/02/21 03:30	Dil Fac
Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result  <250 4740 <250	Qualifier U	RL 250 250	unit mg/Kg mg/Kg	<u>D</u>	09/30/21 15:58 09/30/21 15:58 09/30/21 15:58	Analyzed 10/02/21 03:30 10/02/21 03:30 10/02/21 03:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <250	Qualifier U	RL 250 250 250	unit mg/Kg mg/Kg	<u>D</u>	09/30/21 15:58 09/30/21 15:58	Analyzed 10/02/21 03:30 10/02/21 03:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <250   4740   <250   %Recovery	Qualifier U	250 250 250 250 <i>Limits</i>	unit mg/Kg mg/Kg	<u>D</u>	09/30/21 15:58 09/30/21 15:58 09/30/21 15:58 <i>Prepared</i>	Analyzed 10/02/21 03:30 10/02/21 03:30 10/02/21 03:30 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result   <250   4740   <250	Qualifier  U  U  Qualifier	RL 250 250 250 250 Limits 70 - 130	unit mg/Kg mg/Kg	<u> </u>	09/30/21 15:58 09/30/21 15:58 09/30/21 15:58 <b>Prepared</b> 09/30/21 15:58	Analyzed 10/02/21 03:30 10/02/21 03:30 10/02/21 03:30  Analyzed 10/02/21 03:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier  U  U  Qualifier	RL 250 250 250 250 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	09/30/21 15:58 09/30/21 15:58 09/30/21 15:58 <b>Prepared</b> 09/30/21 15:58	Analyzed 10/02/21 03:30 10/02/21 03:30 10/02/21 03:30  Analyzed 10/02/21 03:30	Dil Fac

**Client Sample ID: SS02** Lab Sample ID: 890-1332-2 Matrix: Solid

Date Collected: 09/29/21 11:45 Date Received: 09/29/21 14:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			09/30/21 11:52	10/03/21 03:25	1

Client: WSP USA Inc. Job ID: 890-1332-1

Project/Site: EVGSAU 0546-119 SDG: 31402909.19

**Client Sample ID: SS02** Lab Sample ID: 890-1332-2

Date Collected: 09/29/21 11:45 Matrix: Solid Date Received: 09/29/21 14:15 Sample Depth: 0.5

Method: 8021B -	Volatile Organi	ic Compounde (G	C) (Continued)
Method, ouz ib -	VUIALIIE UI UAII	ic combounds id	C) (COllulada)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	83	70 - 130	09/30/21 11:52	10/03/21 03:25	1

Method: Total BTEX - Tota	Il BTEX Calculation						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Allalyto	resuit	Qualifici		Onit	 ricparca	Analyzou	Diriac
Total BTEX	<0.00200	U	0.00200	mg/Kg	 	10/04/21 11:24	1

Method: 8015 NM - Diesel Range C	Organics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	16400	50.0	mg/Kg			10/05/21 10:03	1

Method: 8015B NM - Diesel Ran	ge Organics (DI	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<249	U	249	mg/Kg		09/30/21 15:58	10/02/21 03:51	5

(GRO)-C6-C10						
Diesel Range Organics (Over	16400	249	mg/Kg	09/30/21 15:58	10/02/21 03:51	5
C10-C28)						
OII Range Organics (Over C28-C36)	<249 U	249	mg/Kg	09/30/21 15:58	10/02/21 03:51	5

Surrogate	%Recovery	Qualifier	Limits	Pre	pared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	09/30/	21 15:58	10/02/21 03:51	5
o-Terphenyl	85		70 - 130	09/30/	21 15:58	10/02/21 03:51	5

Method: 300.0 - Anions, Ion Chron	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorido	1260	4 95	ma/Ka			10/04/21 22:46	1

**Client Sample ID: SS03** Lab Sample ID: 890-1332-3

Date Collected: 09/29/21 11:44 Date Received: 09/29/21 14:15

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		09/30/21 11:52	10/03/21 03:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			09/30/21 11:52	10/03/21 03:46	1
4.4.0%	0.4		70 100			00/00/04 44 50	10/00/01 00 10	_

4-Bromofluorobenzene (Surr)	132 S1+	70 - 130	09/30/21 11:52	10/03/21 03:46	1
1,4-Difluorobenzene (Surr)	81	70 - 130	09/30/21 11:52	10/03/21 03:46	1

#### **Method: Total BTEX - Total BTEX Calculation**

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1

Method: 8015 NM - Diesel Range C	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6010		50.0	mg/Kg			10/05/21 10:03	1

Eurofins Xenco, Carlsbad

**Matrix: Solid** 

Client: WSP USA Inc. Job ID: 890-1332-1

Project/Site: EVGSAU 0546-119 SDG: 31402909.19

**Client Sample ID: SS03** Lab Sample ID: 890-1332-3 Date Collected: 09/29/21 11:44 Matrix: Solid

Date Received: 09/29/21 14:15 Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<249	U	249	mg/Kg		09/30/21 15:58	10/02/21 04:12	5
Diesel Range Organics (Over C10-C28)	6010		249	mg/Kg		09/30/21 15:58	10/02/21 04:12	5
Oll Range Organics (Over C28-C36)	<249	U	249	mg/Kg		09/30/21 15:58	10/02/21 04:12	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			09/30/21 15:58	10/02/21 04:12	5
o-Terphenyl	96		70 - 130			09/30/21 15:58	10/02/21 04:12	5
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

**Client Sample ID: SS04** Lab Sample ID: 890-1332-4 Matrix: Solid

Date Collected: 09/29/21 11:43 Date Received: 09/29/21 14:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Toluene	<0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	129		70 - 130			09/30/21 11:52	10/03/21 04:06	1
1,4-Difluorobenzene (Surr)	71		70 - 130			09/30/21 11:52	10/03/21 04:06	1
- Method: Total BTEX - Total BTEX	( Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	1
Mothod: 9045 NM Dioos! Danse	Organias (DD)							
wethou: 6015 NW - Diesel Range	Organics (DR	O) (GC)						
•	•	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	•	, ,	RL 50.0	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/05/21 10:03	Dil Fac
Analyte	Result 2230	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH	Result 2230 ge Organics (D	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 2230 ge Organics (D	Qualifier  RO) (GC)  Qualifier	50.0	mg/Kg			10/05/21 10:03	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 2230 ge Organics (D	Qualifier  RO) (GC)  Qualifier	50.0	mg/Kg		Prepared	10/05/21 10:03  Analyzed	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10	Result 2230 ge Organics (D) Result <250	Qualifier  RO) (GC) Qualifier U	8L 250	mg/Kg  Unit  mg/Kg		Prepared 09/30/21 15:58	10/05/21 10:03  Analyzed  10/02/21 04:34	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 2230  ge Organics (D) Result <250 2230	Qualifier  RO) (GC) Qualifier U	50.0  RL 250 250	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58	10/05/21 10:03  Analyzed  10/02/21 04:34  10/02/21 04:34	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier  RO) (GC) Qualifier U	250 250 250	mg/Kg  Unit mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58	Analyzed 10/02/21 04:34 10/02/21 04:34 10/02/21 04:34	

### **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1332-1

Project/Site: EVGSAU 0546-119 SDG: 31402909.19

**Client Sample ID: SS04** Lab Sample ID: 890-1332-4 Date Collected: 09/29/21 11:43 Matrix: Solid

Date Received: 09/29/21 14:15

Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Α	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
C	hloride	6600		50.1	mg/K	g –		10/04/21 22:57	10

**Client Sample ID: SS05** Lab Sample ID: 890-1332-5

Date Collected: 09/29/21 11:42 Date Received: 09/29/21 14:15

Sample Depth: 0.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 04:26	
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 04:26	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 04:26	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/03/21 04:26	
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 04:26	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/03/21 04:26	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130			09/30/21 11:52	10/03/21 04:26	
1,4-Difluorobenzene (Surr)	79		70 - 130			09/30/21 11:52	10/03/21 04:26	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 11:24	
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Method: 8015 NM - Diesel Range Analyte Total TPH		O) (GC) Qualifier	RL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 10/05/21 10:16	
Analyte Total TPH	Result 3010	Qualifier			<u>D</u>	Prepared		Dil Fa
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 3010  ge Organics (Di	Qualifier RO) (GC)	50.0	mg/Kg			10/05/21 10:16	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte	Result 3010  ge Organics (Dige Result	Qualifier  RO) (GC)  Qualifier	50.0	mg/Kg	<u>D</u>	Prepared	10/05/21 10:16  Analyzed	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 3010  ge Organics (Di	Qualifier  RO) (GC)  Qualifier	50.0	mg/Kg			10/05/21 10:16	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte	Result 3010  ge Organics (Dige Result	Qualifier  RO) (GC)  Qualifier	50.0	mg/Kg		Prepared	10/05/21 10:16  Analyzed	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 3010  ge Organics (Di Result <250	Qualifier  RO) (GC)  Qualifier	8L 250	mg/Kg  Unit  mg/Kg		Prepared 09/30/21 15:58	10/05/21 10:16  Analyzed  10/02/21 04:55	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte  Gasoline Range Organics (GRO)-C6-C10	Result 3010  ge Organics (Di Result <250	Qualifier  RO) (GC) Qualifier U	8L 250	mg/Kg  Unit  mg/Kg		Prepared 09/30/21 15:58	10/05/21 10:16  Analyzed  10/02/21 04:55	
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result     3010	Qualifier  RO) (GC) Qualifier U	50.0  RL 250  250	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58	10/05/21 10:16  Analyzed 10/02/21 04:55 10/02/21 04:55	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   3010	Qualifier  RO) (GC) Qualifier U	250 250 250	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58	10/05/21 10:16  Analyzed 10/02/21 04:55 10/02/21 04:55	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   3010	Qualifier  RO) (GC) Qualifier U	250 250 250 <i>Limits</i>	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58 09/30/21 15:58 Prepared	Analyzed 10/02/21 04:55 10/02/21 04:55 10/02/21 04:55 Analyzed	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   3010	Qualifier  RO) (GC) Qualifier  U  Qualifier	50.0  RL 250 250 250 250  Limits 70 - 130	mg/Kg  Unit  mg/Kg  mg/Kg		Prepared 09/30/21 15:58 09/30/21 15:58 09/30/21 15:58  Prepared 09/30/21 15:58	Analyzed 10/02/21 04:55 10/02/21 04:55 10/02/21 04:55 Analyzed 10/02/21 04:55	Dil Fa

10/04/21 23:03

25.0

mg/Kg

Matrix: Solid

1600

Chloride

## **Surrogate Summary**

Job ID: 890-1332-1 Client: WSP USA Inc. Project/Site: EVGSAU 0546-119 SDG: 31402909.19

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1332-1	SS01	114	82	
890-1332-2	SS02	113	83	
890-1332-3	SS03	132 S1+	81	
890-1332-4	SS04	129	71	
390-1332-5	SS05	131 S1+	79	
890-1333-A-41-A MS	Matrix Spike	120	71	
390-1333-A-41-B MSD	Matrix Spike Duplicate	124	83	
LCS 880-8658/1-A	Lab Control Sample	116	80	
LCSD 880-8658/2-A	Lab Control Sample Dup	119	79	
MB 880-8533/5-A	Method Blank	113	73	
MB 880-8658/5-A	Method Blank	121	76	
Surrogate Legend				

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1332-1	SS01	102	100	
890-1332-2	SS02	101	85	
890-1332-3	SS03	97	96	
890-1332-4	SS04	96	104	
890-1332-5	SS05	102	108	
890-1333-A-41-E MS	Matrix Spike	95	95	
890-1333-A-41-F MSD	Matrix Spike Duplicate	97	94	
LCS 880-8689/2-A	Lab Control Sample	109	108	
LCSD 880-8689/3-A	Lab Control Sample Dup	101	103	
MB 880-8689/1-A	Method Blank	95	108	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119

SDG: 31402909.19

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

Lab Sample ID: MB 880-8533/5-A

Lab Sample ID: MB 880-8658/5-A

**Matrix: Solid** 

Analysis Batch: 8712

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 8533

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/28/21 13:53	10/02/21 10:24	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	73		70 - 130

Dil Fac Prepared Analyzed 09/28/21 13:53 10/02/21 10:24 09/28/21 13:53 10/02/21 10:24

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 8658

Matrix: Solid **Analysis Batch: 8712** 

	IIID	W.D						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/30/21 11:52	10/02/21 21:17	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	09/30/21 1	11:52	10/02/21 21:17	1
1,4-Difluorobenzene (Surr)	76		70 - 130	09/30/21 1	11:52	10/02/21 21:17	1

Lab Sample ID: LCS 880-8658/1-A

**Matrix: Solid** 

**Analysis Batch: 8712** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 8658

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08700		mg/Kg		87	70 - 130	
Toluene	0.100	0.09298		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09750		mg/Kg		98	70 - 130	
m-Xylene & p-Xylene	0.200	0.2025		mg/Kg		101	70 - 130	
o-Xylene	0.100	0.1015		mg/Kg		101	70 - 130	

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1.4-Difluorobenzene (Surr)	80		70 - 130

Lab Sample ID: LCSD 880-8658/2-A

**Matrix: Solid** 

**Analysis Batch: 8712** 

Client	Sample	ID:	Lab	Cont	rol	Samp	le	Dup
				_	_	_	- 2	

Prep Type: Total/NA

Prep Batch: 8658

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08720		mg/Kg		87	70 - 130	0	35

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#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119 SDG: 31402909.19

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

Lab Sample ID: LCSD 880-8658/2-A

**Matrix: Solid** 

**Analysis Batch: 8712** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 8658

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09169		mg/Kg		92	70 - 130	1	35
Ethylbenzene	0.100	0.09643		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2013		mg/Kg		101	70 - 130	1	35
o-Xylene	0.100	0.1018		mg/Kg		102	70 - 130	0	35

LCSD LCSD

Sample Sample

<0.00199 U F1

<0.00199 UF1

<0.00199 U

<0.00398 U

<0.00199 U

Result Qualifier

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	79		70 - 130

Lab Sample ID: 890-1333-A-41-A MS

Spike

Added

0.100

0.100

0.100

0.201

0.100

MS MS

0.06627 F1

0.07156

0.07319

0.1519

0.07476

Result Qualifier

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

mg/Kg

**Matrix: Solid** 

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

**Analysis Batch: 8712** 

Client Sam	ıple	ID:	Mat	rix	Spike	
	D				- 1/N I A	

%Rec

66

71

73

76

Prep Type: Total/NA

Prep Batch: 8658 %Rec.

Limits 70 - 130 70 - 130 70 - 130 70 - 130

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	120	70 - 130
1,4-Difluorobenzene (Surr)	71	70 - 130

Lab Sample ID: 890-1333-A-41-B MSD

**Matrix: Solid** 

**Analysis Batch: 8712** 

Client Sample ID: Matrix Spike Duplicate

70 - 130

Prep Type: Total/NA

Prep Batch: 8658

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F1	0.101	0.06653	F1	mg/Kg		66	70 - 130	0	35
Toluene	<0.00199	U F1	0.101	0.06790	F1	mg/Kg		67	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.07041		mg/Kg		70	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1461		mg/Kg		72	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.07217		mg/Kg		72	70 - 130	4	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	83		70 - 130

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

Lab Sample ID: MB 880-8689/1-A

**Matrix: Solid** 

**Analysis Batch: 8701** 

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

Prep Batch: 8689

мв мв Result Qualifier RL Unit Prepared Gasoline Range Organics <50.0 U 50.0 mg/Kg 09/30/21 15:58 10/01/21 20:00 (GRO)-C6-C10

Client: WSP USA Inc. Job ID: 890-1332-1 SDG: 31402909.19 Project/Site: EVGSAU 0546-119

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

Lab Sample ID: MB 880-8689/1-A

**Matrix: Solid** 

**Analysis Batch: 8701** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 8689

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 20:00	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:58	10/01/21 20:00	1
	***	***						

MB MB

MR MR

	Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	1-Chlorooctane	95		70 - 130	09/30/21 15:58	10/01/21 20:00	1
l	o-Terphenyl	108		70 - 130	09/30/21 15:58	10/01/21 20:00	1

Lab Sample ID: LCS 880-8689/2-A Matrix: Solid

**Analysis Batch: 8701** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 8689

	Эріке	LUS	LUS				70Kec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	859.2		mg/Kg		86	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	978.1		mg/Kg		98	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	109		70 - 130
o-Terphenyl	108		70 - 130

Lab Sample ID: LCSD 880-8689/3-A

**Matrix: Solid** 

**Analysis Batch: 8701** 

Client Sample	ID: Lab	<b>Control</b>	Sample Du	р
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Prep Type: Total/NA

Prep Batch: 8689

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D %	Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	995.5		mg/Kg		100	70 - 130	15	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	979.4		mg/Kg		98	70 - 130	0	20
C10-C28)									

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 101 70 - 130 o-Terphenyl 103 70 - 130

Lab Sample ID: 890-1333-A-41-E MS

Matrix: Solid

Analysis Batch: 8701

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 8689

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U	997	865.5		mg/Kg		87	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	997	857.7		mg/Kg		86	70 _ 130	
C10 C20\										

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	95		70 - 130

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119 SDG: 31402909.19

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

Lab Sample ID: 890-1333-A-41-F MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Prep Type: Total/NA **Analysis Batch: 8701** Prep Batch: 8689

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	999	826.4		mg/Kg		83	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	999	849.1		mg/Kg		85	70 - 130	1	20
C10-C28)											

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 70 - 130 97 o-Terphenyl 94 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8727/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 8849** 

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/04/21 19:51	1

Lab Sample ID: LCS 880-8727/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 8849** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	262.0		mg/Kg		105	90 - 110	 

Lab Sample ID: LCSD 880-8727/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 8849** 

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	261.6		ma/Ka		105	90 110		20	

Lab Sample ID: 890-1330-A-3-F MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 8849** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	37.2		250	303.4		ma/Ka		107	90 110	

Lab Sample ID: 890-1330-A-3-G MSD **Matrix: Solid** 

Analysis Batch: 8849

Alialysis Datell. 0043											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	37.2		250	304.4		mg/Kg		107	90 - 110		20

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**Prep Type: Soluble** 

Client Sample ID: Matrix Spike Duplicate

## **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1332-1

 Project/Site: EVGSAU 0546-119
 SDG: 31402909.19

**GC VOA** 

Prep Batch: 8533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8533/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	5035	_
890-1332-2	SS02	Total/NA	Solid	5035	
890-1332-3	SS03	Total/NA	Solid	5035	
890-1332-4	SS04	Total/NA	Solid	5035	
890-1332-5	SS05	Total/NA	Solid	5035	
MB 880-8658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1333-A-41-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1333-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

**Analysis Batch: 8712** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8021B	8658
890-1332-2	SS02	Total/NA	Solid	8021B	8658
890-1332-3	SS03	Total/NA	Solid	8021B	8658
890-1332-4	SS04	Total/NA	Solid	8021B	8658
890-1332-5	SS05	Total/NA	Solid	8021B	8658
MB 880-8533/5-A	Method Blank	Total/NA	Solid	8021B	8533
MB 880-8658/5-A	Method Blank	Total/NA	Solid	8021B	8658
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	8021B	8658
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8658
890-1333-A-41-A MS	Matrix Spike	Total/NA	Solid	8021B	8658
890-1333-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8658

**Analysis Batch: 8717** 

<b>Lab Sample ID</b> 890-1332-1	Client Sample ID SS01	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
890-1332-2	SS02	Total/NA	Solid	Total BTEX	
890-1332-3	SS03	Total/NA	Solid	Total BTEX	
890-1332-4	SS04	Total/NA	Solid	Total BTEX	
890-1332-5	SS05	Total/NA	Solid	Total BTEX	

#### GC Semi VOA

Prep Batch: 8689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015NM Prep	
890-1332-2	SS02	Total/NA	Solid	8015NM Prep	
890-1332-3	SS03	Total/NA	Solid	8015NM Prep	
890-1332-4	SS04	Total/NA	Solid	8015NM Prep	
890-1332-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1333-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1333-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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#### **QC Association Summary**

Client: WSP USA Inc. Job ID: 890-1332-1 Project/Site: EVGSAU 0546-119 SDG: 31402909.19

GC Semi VOA

#### **Analysis Batch: 8701**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015B NM	8689
890-1332-2	SS02	Total/NA	Solid	8015B NM	8689
890-1332-3	SS03	Total/NA	Solid	8015B NM	8689
890-1332-4	SS04	Total/NA	Solid	8015B NM	8689
890-1332-5	SS05	Total/NA	Solid	8015B NM	8689
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015B NM	8689
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8689
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8689
890-1333-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	8689
890-1333-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8689

#### Analysis Batch: 8889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015 NM	
890-1332-2	SS02	Total/NA	Solid	8015 NM	
890-1332-3	SS03	Total/NA	Solid	8015 NM	
890-1332-4	SS04	Total/NA	Solid	8015 NM	
890-1332-5	SS05	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 8727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Soluble	Solid	DI Leach	
890-1332-2	SS02	Soluble	Solid	DI Leach	
890-1332-3	SS03	Soluble	Solid	DI Leach	
890-1332-4	SS04	Soluble	Solid	DI Leach	
890-1332-5	SS05	Soluble	Solid	DI Leach	
MB 880-8727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1330-A-3-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1330-A-3-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 8849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Soluble	Solid	300.0	8727
890-1332-2	SS02	Soluble	Solid	300.0	8727
890-1332-3	SS03	Soluble	Solid	300.0	8727
890-1332-4	SS04	Soluble	Solid	300.0	8727
890-1332-5	SS05	Soluble	Solid	300.0	8727
MB 880-8727/1-A	Method Blank	Soluble	Solid	300.0	8727
LCS 880-8727/2-A	Lab Control Sample	Soluble	Solid	300.0	8727
LCSD 880-8727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8727
890-1330-A-3-F MS	Matrix Spike	Soluble	Solid	300.0	8727
890-1330-A-3-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8727

**Client Sample ID: SS01** 

Client: WSP USA Inc.

Date Collected: 09/29/21 11:47 Date Received: 09/29/21 14:15

Project/Site: EVGSAU 0546-119

Lab Sample ID: 890-1332-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 03:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 03:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		1			8849	10/04/21 22:41	CH	XEN MI

**Client Sample ID: SS02** Lab Sample ID: 890-1332-2

Date Collected: 09/29/21 11:45 Date Received: 09/29/21 14:15 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 03:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 03:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		1			8849	10/04/21 22:46	CH	XEN MID

**Client Sample ID: SS03** Lab Sample ID: 890-1332-3 Date Collected: 09/29/21 11:44 **Matrix: Solid** 

Date Received: 09/29/21 14:15

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 8658 09/30/21 11:52 KL XEN MID 8021B Total/NA Analysis 5 mL 5 mL 8712 10/03/21 03:46 KL XEN MID Total/NA Analysis Total BTEX 8717 10/04/21 11:24 KL XEN MID 1 Total/NA Analysis 8015 NM 8889 10/05/21 10:03 ΑJ XEN MID Total/NA XEN MID Prep 8015NM Prep 10.04 g 10 mL 8689 09/30/21 15:58 DM Total/NA Analysis 8015B NM 5 8701 10/02/21 04:12 XEN MID

Lab Sample ID: 890-1332-4 **Client Sample ID: SS04** 

5

4.96 g

50 mL

8727

8849

10/01/21 11:51

10/04/21 22:52

CA

CH

Date Collected: 09/29/21 11:43 Date Received: 09/29/21 14:15

Leach

Analysis

DI Leach

300.0

Soluble

Soluble

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 04:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID

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XEN MID

XEN MID

**Matrix: Solid** 

Client: WSP USA Inc. Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1 SDG: 31402909.19

**Client Sample ID: SS04** Lab Sample ID: 890-1332-4 Date Collected: 09/29/21 11:43

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 04:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		10			8849	10/04/21 22:57	CH	XEN MID

**Client Sample ID: SS05** Lab Sample ID: 890-1332-5

Date Collected: 09/29/21 11:42 Matrix: Solid

Date Received: 09/29/21 14:15

Date Received: 09/29/21 14:15

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 04:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 04:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		5			8849	10/04/21 23:03	CH	XEN MID

Laboratory References:

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

#### **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1332-1

 Project/Site: EVGSAU 0546-119
 SDG: 31402909.19

Laboratory: Eurofins Xenco, 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	

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#### **Method Summary**

Client: WSP USA Inc.

Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1

SDG: 31402909.19	

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

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

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#### **Sample Summary**

Client: WSP USA Inc.

Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1

SDG: 31402909.19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1332-1	SS01	Solid	09/29/21 11:47	09/29/21 14:15	0.5
890-1332-2	SS02	Solid	09/29/21 11:45	09/29/21 14:15	0.5
890-1332-3	SS03	Solid	09/29/21 11:44	09/29/21 14:15	0.5
890-1332-4	SS04	Solid	09/29/21 11:43	09/29/21 14:15	0.5
890-1332-5	SS05	Solid	09/29/21 11:42	09/29/21 14:15	0.5

Work Order No:

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

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Work Order No:

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

Chain of Custody

Date/Time

Received by: (Signature)

Relinquished by: (Signature)

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Date/Time

Received by: (Signature)

Relinquished by: (Signature)

Revised Date 051418 Rev. 2018

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Phone:	817-683-2503		Email:	Email: kalei.jennings@wsp.com, payton.benner@wsp.com	S@ws	com, [	ayton.	benner@\	wsp.com	Deliverables: EDD		ADaPT Other:	er:
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SS02		9/29/2021	11:45	0.5'	-	×	×						Discrete
8803		9/29/2021	11:44	0.5'	-	×	×						Discrete
SS04	04 S	9/29/2021	11:43	0.5'	-	×	×						Discrete
SSOS		9/29/2021	11:42	0.5'	-	×	×						Discrete
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otice: Signature of this	s document and relinquishment o	f samples constitu	tes a valid p	urchase order from	n client c	ompany to	Xenco,	ts affiliates a	nd subcontractors	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 the contract	conditions the control		
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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

Chain of Custody

-		Hobbs,NM (	575-392-7550)	Phoenix,AZ	(480-355	-0900) A	tlanta,GA	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	(813-620-2000)	www.xenco.com	<u>∏</u> rage	- Io - I - I
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hone:	817-683-2503		Email: kalei.	ennings (	wsp.cc	im, pay	on benr	Email: <u>kalei.jennings@wsp.com, payton.benner@wsp.com</u>	Deliverables: EDD	ss: EDD		Other:
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SS01	S	9/29/2021	11:47 0.5'		~ ×	×	×					Discrete
SS02	S	9/29/2021	11:45 0.5'		~ ~	×	×					Discrete
8803	S		11:44 0.5'		- ×	×	×					Discrete
SS04	S	9/29/2021	11:43 0.5'		1 ×	×	×					Discrete
SS05	တ	9/29/2021	11:42 0.5		1 ×	×	×					Discrete
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Signature of this do- ice. Xenco will be lia co. A minimum charg	otice: 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 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 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.	of samples constitutes are and shall not assumed and project and a cha	valid purchase on any responsibilinge of \$5 for each	order from clity for any le	ient comp isses or e	any to Xer xpenses is Kenco, bu	co, its affil icurred by inot analy	rder from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and condi ity for any losses or expenses incurred by the client if such losses are due to circumstances beyond the c sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	ssigns standard tern lue to circumstances rced unless previous	ns and conditions beyond the control y negotiated.		
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**Eurofins Xenco, Carlsbad** 

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# Chain of Custody Record

eurofins :

Environment Testing

SS01 (890-1332-1) State Zip: TX, 79701 Deliverable Requested | || || |V Other (specify) SS05 (890-1332-5) SS04 (890-1332-4) SS03 (890-1332-3) SS02 (890-1332-2) Sample Identification - Client ID (Lab ID) Vote: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. EVGSAU 0546-119 Client Information Carlsbad, NM 88220 Phone. 575-988-3199 Fax. 575-988-3199 Empty Kit Relinquished by ossible Hazard Identification elinquished by: 132-704-5440(Tel) Midland elinquished by: 211 W Florida Ave Custody Seals Intact: urofins Xenco hipping/Receiving ject Name Yes ⊳ No (Sub Contract Lab Custody Seal No 2,62,64 Project #: 89000048 Phone: Date/Time Primary Deliverable Rank 2 WO # Due Date Requested 10/5/2021 Date/Time TAT Requested (days) 9/29/21 9/29/21 9/29/21 9/29/21 9/29/21 Date Mountain 11 42 Mountain 11 43 Mountain 11 44 Mountain 11 45 Mountain Sample Time 11 47 G=grab (C=comp, Preservation Code: Type Company Company Company Matrix Solid Solid Solid Solid Solid Kramer Jessica essica kramer@eurofinset.com Field Filtered Sample (Yes or No) Time Accreditations Required (See note): NELAP - Louisiana NELAP - Texas Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mont Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD\_NM/8015NM\_S\_Prep Full TPH × × × × × Received by 300 ORGFM 28D/DI LEACH Chloride × × × × × × × 8021B/6035FP\_Calc BTEX Analysis Requested State of Origin. New Mexico Carrier Tracking No(s) 9-30-2 Date/Time 4 Total Number of containers A - HCL
B NaOH
C Zn Acetate
C Xn Acetate
D Ntric Acid
E NaHSO4
F MeOH
G Amchlor
H - Ascorbic Acid Page Page 1 of 1 COC No 890-435 1 I Ice J DI Water K EDTA Preservation 890-1332-1 Special Instructions/Note: M Hexane
N-None
O AsNaO2
P NaZO4S
Q NaZSO3
R NaZSCO3
S-H2SO4
T TSP Dodecahydrate
U - Acetone
V MCAA
W -pH 4-5
Z other (specify) Company Months

Ver 06/08/2021

#### **Login Sample Receipt Checklist**

 Client: WSP USA Inc.
 Job Number: 890-1332-1

 SDG Number: 31402909.19

Login Number: 1332 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

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#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1332-1

SDG Number: 31402909.19

Login Number: 1332 List Source: Eurofins Xenco, Midland List Number: 2 List Creation: 09/30/21 11:04 AM

Creator: Copeland, Tatiana

Ouastian	A	Commont
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	2.2 / 2.7
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	True	

<6mm (1/4").

# **Environment Testing America**

#### **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1500-1

Laboratory Sample Delivery Group: 31402909.200

Client Project/Site: EVGS AV 0546-119

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 11/1/2021 4:07:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

IOIOIACCESS

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 12/8/2021 9:36:52 AM

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

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

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 Client: WSP USA Inc.
 Laboratory Job ID: 890-1500-1

 Project/Site: EVGS AV 0546-119
 SDG: 31402909.200

**Table of Contents** 

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QC Sample Results	10
QC Association Summary	14
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Sample Summary	20
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#### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119

SDG: 31402909.200

**Qualifiers** 

**GC VOA** Qualifier

**Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased. U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

\*1 LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**Glossary** 

Abbreviation These commonly used abbreviations may or may not be present in this report.

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

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

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

**PQL Practical Quantitation Limit** 

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1

SDG: 31402909.200

Job ID: 890-1500-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1500-1

#### Receipt

The samples were received on 10/29/2021 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 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

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11020 and analytical batch 880-11036 recovered outside control limits for the following analytes: Diesel Range Organics (Over

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.

Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

**Client Sample ID: FS01** Lab Sample ID: 890-1500-1

Date Collected: 10/28/21 12:30 Matrix: Solid Date Received: 10/29/21 10:16

Sample Depth: 1.5

	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 13:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 13:47	•
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 13:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/01/21 08:33	11/01/21 13:47	
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 13:47	
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/01/21 08:33	11/01/21 13:47	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			11/01/21 08:33	11/01/21 13:47	
1,4-Difluorobenzene (Surr)	96		70 - 130			11/01/21 08:33	11/01/21 13:47	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/01/21 14:01	-
Analyte Total TPH	Result <49.9	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	10.0</th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>							
-	\ <del>-1</del> 3.3	U	49.9	mg/Kg			11/01/21 12:32	1
Method: 8015B NM - Diesel Ran			49.9	mg/Kg			11/01/21 12:32	
	ge Organics (D		49.9 <b>R</b> L	mg/Kg		Prepared		
Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier			<u>D</u>	Prepared 11/01/21 08:30	11/01/21 12:32  Analyzed  11/01/21 12:30	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D	RO) (GC) Qualifier	RL	Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D Result <49.9	RO) (GC) Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	11/01/21 08:30	Analyzed 11/01/21 12:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.9	RO) (GC) Qualifier U *1	RL 49.9	Unit mg/Kg mg/Kg	<u>D</u>	11/01/21 08:30 11/01/21 08:30	Analyzed 11/01/21 12:30 11/01/21 12:30	Dil Fac
Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.9 <49.9	RO) (GC) Qualifier U *1	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg	D	11/01/21 08:30 11/01/21 08:30 11/01/21 08:30	Analyzed 11/01/21 12:30 11/01/21 12:30 11/01/21 12:30	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	ge Organics (D Result <49.9 <49.9 <49.9 %Recovery	RO) (GC) Qualifier U *1	RL 49.9 49.9 49.9 <i>Limits</i>	Unit mg/Kg mg/Kg	<u>D</u>	11/01/21 08:30 11/01/21 08:30 11/01/21 08:30 Prepared	Analyzed 11/01/21 12:30 11/01/21 12:30 11/01/21 12:30 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	ge Organics (D Result <49.9 <49.9 <49.9 **Recovery**  78  89	RO) (GC) Qualifier U *1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	11/01/21 08:30 11/01/21 08:30 11/01/21 08:30 Prepared 11/01/21 08:30	Analyzed 11/01/21 12:30 11/01/21 12:30 11/01/21 12:30  Analyzed 11/01/21 12:30	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.9 <49.9 <49.9  **Recovery 78 89  omatography -	RO) (GC) Qualifier U *1 U Qualifier	RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	11/01/21 08:30 11/01/21 08:30 11/01/21 08:30 Prepared 11/01/21 08:30	Analyzed 11/01/21 12:30 11/01/21 12:30 11/01/21 12:30  Analyzed 11/01/21 12:30	Dil Fac

**Client Sample ID: FS02** Lab Sample ID: 890-1500-2 Matrix: Solid

Date Collected: 10/28/21 13:30 Date Received: 10/29/21 10:16

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/01/21 08:33	11/01/21 14:07	1

Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119

SDG: 31402909.200

**Client Sample ID: FS02** 

Date Collected: 10/28/21 13:30 Date Received: 10/29/21 10:16

Sample Depth: 1.5

Lab Sample ID: 890-1500-2

**Matrix: Solid** 

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100	70 - 130	11/01/21 08:33	11/01/21 14:07	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			11/01/21 14:01	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	73.8	49.9	ma/Ka		<del> </del>	11/01/21 12:32	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		11/01/21 08:30	11/01/21 13:30	1
Diesel Range Organics (Over C10-C28)	73.8	*1	49.9	mg/Kg		11/01/21 08:30	11/01/21 13:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/01/21 08:30	11/01/21 13:30	1
Suma mata	0/ Danas (am.)	Ovelifier	l imaida			Duamanad	Amalumad	Dil F

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	79	70 - 130	11/01/21 08:30	11/01/21 13:30	1
o-Terphenyl	92	70 - 130	11/01/21 08:30	11/01/21 13:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	236	4.99	mg/Kg		_	11/01/21 15:11	1

Lab Sample ID: 890-1500-3 **Client Sample ID: FS03 Matrix: Solid** 

Date Collected: 10/28/21 14:00 Date Received: 10/29/21 10:16

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	132	S1+	70 - 130			11/01/21 08:33	11/01/21 14:27	1
1,4-Difluorobenzene (Surr)	95		70 - 130			11/01/21 08:33	11/01/21 14:27	1

Method:	Total	RTFY -	Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	ma/Ka			11/01/21 14:01	1

Method: 8015 NM - Diesel	Range Organics	(DRO) (GC)
Method. 00 13 MM - Diesei	ixange Organics	(DICO) (GG)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	50.1	50.0	mg/Kg			11/01/21 12:32	1

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1

SDG: 31402909.200

**Client Sample ID: FS03** 

Date Collected: 10/28/21 14:00

Date Received: 10/29/21 10:16

Lab Sample ID: 890-1500-3

Matrix: Solid

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 13:50	1
Diesel Range Organics (Over C10-C28)	50.1	*1	50.0	mg/Kg		11/01/21 08:30	11/01/21 13:50	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			11/01/21 08:30	11/01/21 13:50	1
o-Terphenyl	97		70 - 130			11/01/21 08:30	11/01/21 13:50	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			5.04	mg/Kg			11/01/21 15:17	

**Client Sample ID: FS04** Lab Sample ID: 890-1500-4 Matrix: Solid

Date Collected: 10/28/21 15:00 Date Received: 10/29/21 10:16

Sample Depth: 1.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/01/21 08:33	11/01/21 14:48	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/01/21 08:33	11/01/21 14:48	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			11/01/21 14:01	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/01/21 12:32	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		11/01/21 08:30	11/01/21 14:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			11/01/21 08:30	11/01/21 14:11	1
o-Terphenyl	78		70 - 130			11/01/21 08:30	11/01/21 14:11	1

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

**Client Sample ID: FS04** Lab Sample ID: 890-1500-4

Date Collected: 10/28/21 15:00 Matrix: Solid Date Received: 10/29/21 10:16

Sample Depth: 1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	223		5.00	mg/Kg			11/01/21 15:23	1

Lab Sample ID: 890-1500-5 **Client Sample ID: FS05** 

Date Collected: 10/28/21 15:30 Date Received: 10/29/21 10:16

Sample Depth: 1.5

o-Terphenyl

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			11/01/21 08:33	11/01/21 15:08	1
1,4-Difluorobenzene (Surr)	73		70 - 130			11/01/21 08:33	11/01/21 15:08	1
- Method: Total BTEX - Total B1	ΓEX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/01/21 14:01	

Total BTEX	٠٥.٥٥٥٥٥	Ü	0.00000	mg/rtg			11/01/21 14.01	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/01/21 12:32	1
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		11/01/21 08:30	11/01/21 14:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U *1	49.8	mg/Kg		11/01/21 08:30	11/01/21 14:31	1
C10-C28)								
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/01/21 08:30	11/01/21 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			11/01/21 08:30	11/01/21 14:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	245		5.00	mg/Kg			11/01/21 15:29	1

70 - 130

Eurofins Xenco, Carlsbad

11/01/21 14:31

11/01/21 08:30

**Matrix: Solid** 

11/1/2021

#### **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1498-A-1-A MS	Matrix Spike	117	99	
890-1498-A-1-B MSD	Matrix Spike Duplicate	119	103	
390-1500-1	FS01	111	96	
390-1500-2	FS02	113	100	
390-1500-3	FS03	132 S1+	95	
390-1500-4	FS04	122	100	
390-1500-5	FS05	120	73	
LCS 880-11021/1-A	Lab Control Sample	121	103	
LCSD 880-11021/2-A	Lab Control Sample Dup	110	100	
MB 880-11021/5-A	Method Blank	106	101	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-1500-1	FS01	78	89	
-1500-1 MS	FS01	79	74	
)-1500-1 MSD	FS01	94	90	
-1500-2	FS02	79	92	
-1500-3	FS03	84	97	
-1500-4	FS04	72	78	
-1500-5	FS05	71	80	
S 880-11020/2-A	Lab Control Sample	86	84	
SD 880-11020/3-A	Lab Control Sample Dup	110	108	
3 880-11020/1-A	Method Blank	104	129	

**Surrogate Legend** 

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Released to Imaging: 12/8/2021 9:36:52 AM

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119

SDG: 31402909.200

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11021/5-A

Lab Sample ID: LCS 880-11021/1-A

**Matrix: Solid** 

**Analysis Batch: 11022** 

**Matrix: Solid Analysis Batch: 11022**  Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11021

	MB	MR						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 12:08	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 12:08	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	-	11/01/21 08:33	11/01/21 12:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130		11/01/21 08:33	11/01/21 12:08	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 11021

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08284 mg/Kg 83 70 - 130 Toluene 0.100 0.08405 mg/Kg 84 70 - 130 0.100 0.08962 90 Ethylbenzene mg/Kg 70 - 130 0.200 0.1923 96 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09704 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	121		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 11022** 

Lab Sample ID: LCSD 880-11021/2-A

Prep Type: Total/NA Prep Batch: 11021

	<b>Spike</b>	LCSD	LUSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.07647		mg/Kg		76	70 - 130	8	35	
Toluene	0.100	0.07398		mg/Kg		74	70 - 130	13	35	
Ethylbenzene	0.100	0.07944		mg/Kg		79	70 - 130	12	35	
m-Xylene & p-Xylene	0.200	0.1712		mg/Kg		86	70 - 130	12	35	
o-Xylene	0.100	0.08722		mg/Kg		87	70 - 130	11	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	110	70 - 130
1,4-Difluorobenzene (Surr)	100	70 - 130

Lab Sample ID: 890-1498-A-1-B MSD

**Matrix: Solid** 

**Analysis Batch: 11022** 

Client Sample ID:	Matrix	<b>Spike</b>	Duplicate
	_	_	

Prep Type: Total/NA

Prep Batch: 11021

,											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.07206		mg/Kg					

Toluene <0.00199 U 0.0998 0.07077 mg/Kg

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1 SDG: 31402909.200

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

Lab Sample ID: 890-1498-A-1-B MSD **Matrix: Solid** 

**Analysis Batch: 11022** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 11021

_	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	<0.00199	U	0.0998	0.07668		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1630		mg/Kg					
o-Xylene	<0.00199	U	0.0998	0.08213		mg/Kg					

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Lab Sample ID: 890-1498-A-1-A MS

**Matrix: Solid** 

**Analysis Batch: 11022** 

MS MS

Limits Surrogate %Recovery Qualifier 4-Bromofluorobenzene (Surr) 117 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 99

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

Lab Sample ID: MB 880-11020/1-A

**Matrix: Solid** 

Analysis Batch: 11036

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11020

•							•	
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 11:29	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 11:29	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/01/21 08:30	11/01/21 11:29	1
	МВ	MB						
Currogoto	9/ Bassyony	Qualifier	Limito			Droporod	Analyzad	Dil Eco

Surrogate %Recovery Limits Prepared Analyzed 70 - 130 1-Chlorooctane 104 11/01/21 08:30 11/01/21 11:29 o-Terphenyl 129 70 - 130 11/01/21 08:30 11/01/21 11:29

Lab Sample ID: LCS 880-11020/2-A

**Matrix: Solid** 

**Analysis Batch: 11036** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 11020

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	743.3		mg/Kg		74	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	735.4		mg/Kg		74	70 - 130	

C10-C28)

LCS LCS

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	86	70 - 130
o-Terphenyl	84	70 - 130

#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

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

Lab Sample ID: LCSD 880-11020/3-A

**Matrix: Solid** 

**Analysis Batch: 11036** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11020

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	910.8		mg/Kg		91	70 - 130	20	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	970.3	*1	mg/Kg		97	70 - 130	28	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 110 70 - 130 1-Chlorooctane o-Terphenyl 108 70 - 130

Lab Sample ID: 890-1500-1 MS **Client Sample ID: FS01** 

**Matrix: Solid** 

**Analysis Batch: 11036** 

Prep Type: Total/NA Prep Batch: 11020 Spike MS MS %Rec.

Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.9 U 997 900.2 86 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U \*1 997 744.6 mg/Kg 70 70 - 130

C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 79 70 - 130 o-Terphenyl 74 70 - 130

Lab Sample ID: 890-1500-1 MSD

**Matrix: Solid** 

Analysis Batch: 11036

**Client Sample ID: FS01** Prep Type: Total/NA Prep Batch: 11020

Sample Sample Spike MSD MSD %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 1000 89 Gasoline Range Organics 929.1 70 - 130 3 20 mg/Kg (GRO)-C6-C10 1000 908.9 mg/Kg 86 Diesel Range Organics (Over <49 9 U\*1 70 - 130 20 20 C10-C28)

Qualifier Limits Surrogate %Recovery 1-Chlorooctane 94 70 - 130 90 70 - 130 o-Terphenyl

MSD MSD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11038/1-A

**Matrix: Solid** 

**Analysis Batch: 11110** 

Client Sample ID: Method Blank

**Prep Type: Soluble** 

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared Chloride <5.00 U 5.00 11/01/21 12:38 mg/Kg

#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119

SDG: 31402909.200

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-11038/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 11110** 

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 240.3 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-11038/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 11110** 

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 236.8 mg/Kg 95 90 - 110

Lab Sample ID: 890-1499-A-9-E MS Client Sample ID: Matrix Spike

**Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 11110** 

MS MS %Rec. Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits

Chloride 155 249 416.2 105 90 - 110 mg/Kg

Lab Sample ID: 890-1499-A-9-F MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 11110** 

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Qualifier Unit %Rec RPD Limit Result Limits 409.1 Chloride 155 249 102 90 - 110 20 mg/Kg

#### **QC Association Summary**

Client: WSP USA Inc.

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1 SDG: 31402909.200

#### **GC VOA**

#### Prep Batch: 11021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	5035	
890-1500-2	FS02	Total/NA	Solid	5035	
890-1500-3	FS03	Total/NA	Solid	5035	
890-1500-4	FS04	Total/NA	Solid	5035	
890-1500-5	FS05	Total/NA	Solid	5035	
MB 880-11021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1498-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **Analysis Batch: 11022**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8021B	11021
890-1500-2	FS02	Total/NA	Solid	8021B	11021
890-1500-3	FS03	Total/NA	Solid	8021B	11021
890-1500-4	FS04	Total/NA	Solid	8021B	11021
890-1500-5	FS05	Total/NA	Solid	8021B	11021
MB 880-11021/5-A	Method Blank	Total/NA	Solid	8021B	11021
LCS 880-11021/1-A	Lab Control Sample	Total/NA	Solid	8021B	11021
LCSD 880-11021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11021
890-1498-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1498-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11021

#### **Analysis Batch: 11149**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1500-1	FS01	Total/NA	Solid	Total BTEX	
890-1500-2	FS02	Total/NA	Solid	Total BTEX	
890-1500-3	FS03	Total/NA	Solid	Total BTEX	
890-1500-4	FS04	Total/NA	Solid	Total BTEX	
890-1500-5	FS05	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Prep Batch: 11020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015NM Prep	
890-1500-2	FS02	Total/NA	Solid	8015NM Prep	
890-1500-3	FS03	Total/NA	Solid	8015NM Prep	
890-1500-4	FS04	Total/NA	Solid	8015NM Prep	
890-1500-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-11020/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11020/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1500-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1500-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 11036**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015B NM	11020
890-1500-2	FS02	Total/NA	Solid	8015B NM	11020
890-1500-3	FS03	Total/NA	Solid	8015B NM	11020

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#### **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1500-1

 Project/Site: EVGS AV 0546-119
 SDG: 31402909.200

#### GC Semi VOA (Continued)

#### **Analysis Batch: 11036 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-4	FS04	Total/NA	Solid	8015B NM	11020
890-1500-5	FS05	Total/NA	Solid	8015B NM	11020
MB 880-11020/1-A	Method Blank	Total/NA	Solid	8015B NM	11020
LCS 880-11020/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11020
LCSD 880-11020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11020
890-1500-1 MS	FS01	Total/NA	Solid	8015B NM	11020
890-1500-1 MSD	FS01	Total/NA	Solid	8015B NM	11020

#### **Analysis Batch: 11118**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015 NM	
890-1500-2	FS02	Total/NA	Solid	8015 NM	
890-1500-3	FS03	Total/NA	Solid	8015 NM	
890-1500-4	FS04	Total/NA	Solid	8015 NM	
890-1500-5	FS05	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 11038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Soluble	Solid	DI Leach	
890-1500-2	FS02	Soluble	Solid	DI Leach	
890-1500-3	FS03	Soluble	Solid	DI Leach	
890-1500-4	FS04	Soluble	Solid	DI Leach	
890-1500-5	FS05	Soluble	Solid	DI Leach	
MB 880-11038/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11038/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11038/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1499-A-9-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1499-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### **Analysis Batch: 11110**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Soluble	Solid	300.0	11038
890-1500-2	FS02	Soluble	Solid	300.0	11038
890-1500-3	FS03	Soluble	Solid	300.0	11038
890-1500-4	FS04	Soluble	Solid	300.0	11038
890-1500-5	FS05	Soluble	Solid	300.0	11038
MB 880-11038/1-A	Method Blank	Soluble	Solid	300.0	11038
LCS 880-11038/2-A	Lab Control Sample	Soluble	Solid	300.0	11038
LCSD 880-11038/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11038
890-1499-A-9-E MS	Matrix Spike	Soluble	Solid	300.0	11038
890-1499-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11038

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Released to Imaging: 12/8/2021 9:36:52 AM

Job ID: 890-1500-1

Client: WSP USA Inc. Project/Site: EVGS AV 0546-119 SDG: 31402909.200

**Client Sample ID: FS01** Lab Sample ID: 890-1500-1

Date Collected: 10/28/21 12:30 **Matrix: Solid** Date Received: 10/29/21 10:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 13:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 12:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:05	CH	XEN MID

Lab Sample ID: 890-1500-2 **Client Sample ID: FS02** 

Date Collected: 10/28/21 13:30 Matrix: Solid Date Received: 10/29/21 10:16

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 11021 Total/NA Prep 5.05 g 5 mL 11/01/21 08:33 KL XEN MID Total/NA 8021B 5 mL XEN MID Analysis 1 5 mL 11022 11/01/21 14:07 KL Total/NA Total BTEX 11/01/21 14:01 XEN MID Analysis 1 11149 A.I Total/NA Analysis 8015 NM 11118 11/01/21 12:32 XEN MID Total/NA 11/01/21 08:30 XEN MID Prep 8015NM Prep 10.02 g 11020 DM 10 mL Total/NA Analysis 8015B NM 11036 11/01/21 13:30 AJ XEN MID Soluble 11038 XEN MID Leach DI Leach 5.01 g 50 mL 11/01/21 09:55 CH Soluble Analysis 300.0 1 11110 11/01/21 15:11 CH XEN MID

Lab Sample ID: 890-1500-3 **Client Sample ID: FS03** 

Date Collected: 10/28/21 14:00 **Matrix: Solid** Date Received: 10/29/21 10:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 14:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:17	CH	XEN MID

**Client Sample ID: FS04** Lab Sample ID: 890-1500-4

Matrix: Solid Date Collected: 10/28/21 15:00 Date Received: 10/29/21 10:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 14:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID

Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

**Client Sample ID: FS04** Lab Sample ID: 890-1500-4

Date Collected: 10/28/21 15:00 Matrix: Solid Date Received: 10/29/21 10:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:23	CH	XEN MID

**Client Sample ID: FS05** Lab Sample ID: 890-1500-5

Date Collected: 10/28/21 15:30 Matrix: Solid

Date Received: 10/29/21 10:16

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 15:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 14:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:29	CH	XEN MID

Laboratory References:

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

#### **Accreditation/Certification Summary**

Client: WSP USA Inc. Job ID: 890-1500-1 Project/Site: EVGS AV 0546-119 SDG: 31402909.200

#### **Laboratory: Eurofins Xenco, Midland**

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

Authority	Program		Identification Number	Expiration Date
Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes at the agency does not off		ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8015 NM		Solid	Total TPH	
Total BTEX		Solid	Total BTEX	

#### **Method Summary**

Client: WSP USA Inc.

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1

SDG: 31402909.200

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

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

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#### **Sample Summary**

Client: WSP USA Inc.

Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1

SDG: 31402909.200

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1500-1	FS01	Solid	10/28/21 12:30	10/29/21 10:16	1.5
890-1500-2	FS02	Solid	10/28/21 13:30	10/29/21 10:16	1.5
890-1500-3	FS03	Solid	10/28/21 14:00	10/29/21 10:16	1.5
890-1500-4	FS04	Solid	10/28/21 15:00	10/29/21 10:16	1.5
890-1500-5	ES05	Solid	10/28/21 15:30	10/29/21 10:16	1.5

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Project Manager: Kalei Jennings		LABORATORIES	XMZCO	
Bill to: (if different) Kalei Jennings	Hobbs,NM (575-392-7550) Phoenix,AZ (4:	Midland,TX (432-704-5440)	Houston,TX (281) 240-4200 D	
Kalei Jennings	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-	Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334	Chain of Custody

Company Name	>						C	hai	コ の	S	Chain of Custody	ğ						≶	ork C	)rde	Work Order No:						1
Company Name	X		_		Houston,	TX (281) 240-4	200 Da	allas,TX	(214) 9	02-030	) San Aı	ntonio,T.	(210) 5	09-333	42												
Congress   Manager   Congress		DRATORIE	Di	Hobbs,	Midland NM (575-392-	I,TX (432-704-5 7550)  Phoenix	440) E ,AZ (48	L Paso 0-355-0	,TX (91 ,1000) ,	5)585-3 \tlanta,G	443 Lub iA (770-4	bock,TX 49-8800	(806)79 )) Tamp	4-1296 a,FL (8:	13-620-	2000)		I§	WW.XE	nco.c	om	Pa	ge	/	of	-	<b> </b>
Company Name   WSP		alei Jennings				Bill to: (if differe	nt)	Kalei	Jennin	gs									Wor	k Orc	er Co	mme	nts				<u></u>
Address		/SP				Company Nar	ne:	WSP							P	ogram	: UST/		뮻	۵	ownfi		찟	ᇢ	erfun	<u>≅</u>	_
Coty   State ZP   Midland   TX 19705		300 North A Stre	eet			Address:		3300	North ,	A Stree					_	State	of Pro	ject:								]	
Project Name:	e ZIP:	lidland, TX 7970	ы			City, State ZIF	٠,٩	Midla	nd, TX	79705					- R	porting	):Level	=	]evel l		U/IS		닕		vel IV		
Project Number:   E   V   S   A   V   S   A   V   S   A   V   S   A   V   S   A   A   A   A   A   A   A   A   A		32.236.3849		<u></u>	Email:	ben.belill@v	/sp.cc	m; ka	lei jen	nings (	®wsp.c	om			D	liverab	les: E	8		I≥	DaPT		₽	her:			ıL
Routines	Project Name:	EV65A	V 05			n Around						AN.	LYSIS		UEST				l				Vork	Orde	Y No.	es	Ш
Sample Clastody Seals:   Yes No \ \( \frac{1}{2} \)		31402909	,200		Routir	ಹ   									_												
SAMPLE RECEIPT   Temp Blank   Ves   No   Well loss   Wes   No   Temporaries   Depth   Received intest:   Temp Blank   Ves   No   Well loss   Wes   No   Temporaries   Depth   Received intest:   Ves   No   Well   Total Containers:   Ves   No   No   No   No   No   No   No   N	P.O. Number:	VAPPLIZA	84017	13	Rush:									_	_		_	_	_	_							
SAMPLE RECEIPT   Temp Blank   Yes   No   Metical   No   No   No   No   No   No   No   N	L	enjamin Belill			Due D	)ate:																					
Total 200.7 / 6010 200.8 / 6020:  Received Intact: Yes No NUM Total Containers: Total Containers: Yes No NUM Total Containers: Total 200.7 / 6010 200.8 / 6020:  Sample Identification Marrix Sampled Sampled Sampled Depth For Sampled Sample	SAMPLE RECEIP				Wet Ice:																						
Cooler Clastody Seals:   Yes No   (TV M   Correction Factor: - > - > - > - > - > - > - > - > - > -	Temperature (°C):		is 1	≓	ermometer	ō	ners			)																	
Sample Custody Seals: Yes No. NA. Correction Factor: O. C.	Received Intact:		) =	7	W 00	, 4	ontai	5)	B021)	300.0			890	500	hain	of Cust	ody										
Sample Identification    Matrix   Sampled   Sampled   Sampled   Sampled   Sampled   Sampled   Comment	Sample Custody Seals:	Yes No	N/A	Total	Containers:	ĺ	r of C	A 801	PA 0:	(EPA		_	_									2	ub, if re	ceived	by 4:3	opm	
FS o 2   5   0/24/21   1330   1.5′   1   1   1   1   1   1   1   1   1	Sample Identif				Time Sampled	Depth	Numbe	TPH (EI	BTEX (	Chlorid													šamp	le Co	mme	nts	L
1330   15   1450   15   15   15   15   15   15   15		120		1281	1230	1.5	_	×	×	×	_	_	-	-	-	$\vdash$	╁-	-	igdash	<u> </u>							$\perp$
Total 200.7 / 8010 200.8 / 8020:  BRCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiOz Na Sr Ti Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471  Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U 1631 / 245.1 / 7470 / 7471  Earlier of the cost of samples and shall not assume any responsibility for an least company to Xarco, its stillates and subcontractors. It assigns standard terms and conditions favored and sharped of \$150.00 will be applied to each project and shar		F502	<del> -</del>	<del> -</del>	1330	1.5			_		_	L	-	$\vdash$	╁	$\vdash$	╀	╀	oppi	1	L						
Total 200.7/6010 200.8/6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631/245.1/7470 /7471 (series samples and shallow cost of samples and samples and samples and shallow cost of samples and sam		FSO3	_	-	ochl	1.5	_	_				igdash	$\vdash$	-	$\vdash$	$\vdash$	╁	╄	igapha	igspace	L						$\perp$
Total 200.7/6010 200.8/6020: BRCRA 13PPM Texas 11 Al Sb As Ba Be Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Clircle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn clircle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn 1831/245.1/7470 /7471  **Service Nanco will be admitted to samples a constitutes as a valid purchase and subcontractors. It assigns standard terms and conditions are recommended to sample and subcontractors. It assigns standard terms and conditions are represented by the client standard terms and conditions.  **Relinguished by: (Signature) Paleotived by: (Signature) Date/Time Relinquished by: (Signature) Paleotived by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Received by: (Signature) Relinquished		FSOH			1500	1.5			-		-	-	_	-	<u> </u>	-	<u> </u>	<u> </u>	-								
Total 200.7 / 6010 200.8 / 6020:  BRCRA 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 Tl 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 K Se Ag SiO2 Na Sr Tl 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 Tl U 1631 / 245.1 / 7470 / 7471 / 747		FS05	*	-	1530	1.5	Į.	•	-	<b>E</b>				-	-			_									
Total 200.7/6010 200.8/6020:  BRCRA 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 Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP/SPLP6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631/245.1/7470/7471.  Toticle Method(s) and Metal(s) to be analyzed TCLP/SPLP6010: BRCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631/245.1/7470/7471.  Total 200.7/6010 200.8/6020:  BRCRA 13PPM Texas 11 Al Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed Texas or expenses incurred by the client if such losses are due to circumstances beyond the control 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 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 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 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 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 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 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 samples and shall not samples an			-										+	+	-		+	-									
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 Tl Sn U V Zn Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be B Cd Cr Co Cu Pb Mn Mo Ni Se Ag SiO2 Na Sr Tl 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 Tl U 1631/245.1/7470 / 7471														-		-	-	-	- -								
tervice. Xenco will be liable only for the cost of samples constitutes 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 for Normalization. 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.  Received by: (Signature)  Received by: (Signature)  Paceived by: (Signature)  Received by: (Signature)	Total 200.7 / 601 Circle Method(s)	0 200.8 / 602 and Metal(s) to	0: be analyz	<u>_</u>	CHA 13PF	°M Texas 1 P 6010: 8R		Sb A	s Ba	Be E	d Cr C	ia Cr Cu	P <sub>P</sub> ∨ Cr		N. W.	y Mn e Ag	T Mo □	ㅈ			)2 N	a Sr 1/24	TI Sı 5.1 /	n U '	II. 📏 II	7 : Hg	
Relinguished by: (Signature) Received by: (Signature)	Notice: Signature of this doc of service. Xenco will be liab of Xenco. A minimum charge	ument and relinquish lie only for the cost o	ment of sam f samples an	ples constitued shall not as	ites a valid pur	chase order fron	n client ly losse	compan s or exp	y to Xen	co, its a	Miliates and the clie	nt if suc	ntractors 1 losses	. It assi	gns star	ndard te	rms and s beyon	d condi	tions ontrol								
5101 21 12 62 201 drol 12.62.01 dry NIV)	Relinguished by: (	Signature)	)   	eceived b	y: (Signatur	re)		Date/	Time		Reli	nquish	ed by:	(Signa	ature)	$+ \parallel$	l "	eceiv	ed by	: (Sig	natur	(e)	$\dashv$		ate/T	me	
	I wal	1		I IX		21 1016	5/01	3 h	3		N 4											}	+				
	5										6					$\dashv$							+				

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1500-1

SDG Number: 31402909.200

Login Number: 1500 List Source: Eurofins Xenco, Carlsbad

List Number: 1 Creator: Clifton, Cloe

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

Eurofins Xenco, Carlsbad

Released to Imaging: 12/8/2021 9:36:52 AM

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IS

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1500-1 SDG Number: 31402909.200

Login Number: 1500
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 11/01/21 08:46 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.6/2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

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<6mm (1/4").

32.09663

ived by OCD: 11/9/2021 6:07:35 PM

Imaging: 12/8/2021 9:36:52 AM

Latitude

Received by OCD: 10/25/2021 11:12:25 AM

District I
1625 N. French Dr., Hobbs, NM 887

District II
811 S. First St
Diet 1000 Rio Brazos Road, Aztec, NM 87410 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	NAPP2129840173
District RP	
Facility ID	
Application ID	

#### **Release Notification**

#### **Responsible Party**

Responsible Party	ConocoPhillips	OGRID	
Contact Name	Kelsy Waggaman	Contact Telephone	432-688-9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2129840173
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release S	ource	
Longitude	-103.52670	
_		

(NAD 83 in decimal degrees to 5 decimal places)

Location of Pologga Source

Site Name	EVGSAU 0546-119	Site Type	Flowline
Date Release Discovere	<sup>d</sup> August 11, 2021	API# (if applicable	9)

Unit Letter	Section	Township	Range	County
Z	25	25S	33E	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) Crude Oil Volume Released (bbls) Volume Recovered (bbls) 3 3.6 Produced Water Volume Released (bbls) Volume Recovered (bbls) 0 ■ Vog □ No - C 4!---1---4 -1-1---!4--!--41--

	produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

The release was caused by a flowline failure due to corrosion.

The release was on the lease road. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate 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.

Rele
aPa.
to
Imaging:
12/8/2021
9:36

eceived by OCD: 10/25/2021	11:12:25 AM
orm C-141	State of New Mexico
age 2	Oil Conservation Division

	I ugo mo
Incident ID	NAPP2129840173
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  Yes No  Incident ID NAPP212  District RP  Facility ID  Application ID  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)?	9840173
Was this a major release as defined by 19.15.29.7(A) NMAC?  Yes 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)?	
Was this a major release as defined by 19.15.29.7(A) NMAC?  Yes 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)?	
Was this a major release as defined by 19.15.29.7(A) NMAC?  Yes No  If YES, for what reason(s) does the responsible party consider this a major release?  The party consider this a major release?  When and by what means (phone, email, etc.)?	
release as defined by 19.15.29.7(A) NMAC?  Yes No  If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	
Yes No  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 injur	v
■ The source of the release has been stopped.	
The impacted area has been secured to protect human health and the environment.	
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
in the decions deserted above have not 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 rel within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation	lease occurred
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD	nay endanger
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which republic health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, cond/or regulations.	onment. In
public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, cand/or regulations.	onment. In or local laws
public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, cand/or regulations.	onment. In or local laws
public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, of and/or regulations.	onment. In or local laws
public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, of and/or regulations.  Printed Name  Brittany N. Esparza  Title:  Environmental Technic 10/25/2021  Date:  10/25/2021  Telephone:  Telephone:  (432) 221-0398	onment. In or local laws
public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their op failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, of and/or regulations.  Printed Name  Brittany N. Esparza  Title: Environmental Technic	onment. In or local laws

Received by OCD: 10/25/	2021 11-12-25 AM			L48 Spill Vol	lume Estimate Form				Page 3 of 4
			EVGSAU 0546-11	9			NAPP2	129840173	1480-1014
		Asset Area:	SENM (Buckeye)						
	Release Disco	very Date & Time:	8/11/2021						
		Release Type:	Oil Mixture						
Provide any known details about the event: Flowline leaks									
				Spill Calculation -	Subsurface Spill - Rectangle				
V	Vas the release	on pad or off-pad?			On Pad - 10.5%; Off Pad - 15.12%	soil spilled-fluid satu	uration factor		
Has it rained at lea	ast a half inch in	the last 24 hours?		Yes, On Pa	ad - 8%; Off Pad - 13.57% soil spilled-	luid saturation facto	r; if No, use factors ab	ove.	
Convert Irregular shape into a series of rectangles	Length (fL)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	40.0	12.0	1.50	15.20%	10.680	1.623	25.00%	0.406	1.218
Rectangle B	15.0	9.0	0.50	15.20%	1.001	0.152	25.00%	0.038	0.114
Rectangle C	12.0	6.0	0.50	15.20%	0.534	0.081	25.00%	0.020	0.061
Rectangle D	63.0	9.0	0.50	15.20%	4.205	0.639	25.00%	0.160	0.479
Rectangle E					0.000	0.000	0.00%	0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
, Rectangle J	1/2021 5.20.50 43				0.000	0.000		0.000	0.000
- Released to Imaging: 11/	172021 3.29:30 AM				Total Volume Release:	2.496		0.624	1.872

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

#### CONDITIONS

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505		CONDITIONS Action 57652
	CONDI	TIONS	
Operator:  COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701		OGRID: 229137 Action Number: 57652	
		Action Type:  [C-141] Release Corrective Action	

Created By Condition	II	Condition Date
rmarcus None		11/1/2021

Form	C-141
Page 3	
ed	

#### State of New Mexico Oil Conservation Division

Incident ID	NAPP2129840173
District RP	
Facility ID	
Application ID	

#### Site Assessment/Characterization

Form C-141	State of New Mexico	Incident ID	NAPP2129840173	
Page 3	Oil Conservation Division	District RP	11/71 1 2 123040173	
		Facility ID		
<u> </u>		Application ID		
	Site Assessment/Charac	rterization		
Thi.	is information must be provided to the appropriate district office no later		overv date	
ò	s nyo manon miss oc promise to the appropriate and net office he take			
What is the shallowest d	lepth to groundwater beneath the area affected by the relea	se?	<u>51-100</u> (ft bgs)	
Did this release impact g	groundwater or surface water?		☐ Yes ☒ No	
Are the lateral extents of watercourse?	cant ☐ Yes ☒ No			
Are the lateral extents or ordinary high-water man	f the release within 200 feet of any lakebed, sinkhole, or plrk)?	aya lake (measured from the	Yes No	
Are the lateral extents of or church?	f the release within 300 feet of an occupied permanent resi	dence, school, hospital, instit	tution, ☐ Yes ☒ No	
	f the release within 500 horizontal feet of a spring or a priviolds for domestic or stock watering purposes?	rate domestic fresh water wel	Il used ☐ Yes ☒ No	
Are the lateral extents of	☐ Yes ☑ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?				
Are the lateral extents o	f the release within 300 feet of a wetland?		☐ Yes ☒ No	
Are the lateral extents of	f the release overlying a subsurface mine?		☐ Yes 🏿 No	
Are the lateral extents of	f the release overlying an unstable area such as karst geolo	gy?	☐ Yes ☑ No	
Are the lateral extents of	f the release within a 100-year floodplain?		☐ Yes ☒ No	
Did the release impact a	areas <b>not</b> on an exploration, development, production, or sto	orage site?	X Yes ☐ No	
	report (electronic submittals in .pdf format are preferred with the release have been determined. Refer to 19.15.29.		al and vertical extents of soil	
Characterization Repo	ort Checklist: Each of the following items must be include	led in the report.		
<ul><li>☐ Field data</li><li>☐ Data table of soil co</li><li>☐ Depth to water determined</li></ul>		•		
Determination of war Boring or excavation	ater sources and significant watercourses within ½-mile of on logs	the lateral extents of the rele	ase	

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.

Photographs including date and GIS information
 Topographic/Aerial maps

☐ Laboratory data including chain of custody

I hereby cer regulations public healt failed to add addition, Or and/or regu

Printed Na

Signature:
email: ke

## State of New Mexico Oil Conservation Division

Incident ID	NAPP2129840173
District RP	
Facility ID	
Application ID	

Received by OCD: 11/9/2021 6:07:35 PM

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: 14 1 14	Title: For incorporate Counting to
Printed Name: Kelsy Waggaman	Title: Environmental Coordinator
Signature: Kuly Dayyum	Date: 11/8/21
email: kelsy.waggaman@conocophillips.com	Telephone: (505) 577-9071
OCD Only	
Received by:	Date:

RForm C-141
Release 6
Seed to Imaging:

## State of New Mexico Oil Conservation Division

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

must be notified 2 days prior to liner inspection)

Incident ID	NAPP2129840173
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 of 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 that no focustody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)				
■ Description of remediation activities				
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 ay endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability nould their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, aman 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 store, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in excordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.				
Printed Name: Kelsy Waggaman	Title: Environmental Coordinator			
Signature: Keley Dayyum	Date: 11/8/21			
email: <u>kelsy.waggaman@conocophillips.com</u>	Telephone: <u>(505) 577-9071</u>			
OCD Only				
Received by: Chad Hensley	Date:12/08/2021			
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and emediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.				
Closure Approved by:	Date: 12/08/2021			
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced			

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

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

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

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

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

CONDITIONS

Action 61107

#### **CONDITIONS**

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	61107
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
chensley	None	12/8/2021