District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 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	nAPP2129255688
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Marathon Oil Permian LLC	OGRID 372098
Contact Name Melodie Sanjari	Contact Telephone 575-988-8753
Contact email msanjari@marathonoil.com	Incident # (assigned by OCD)
Contact mailing address 4111 S. Tidwell Rd., Carlsbad, NM 8220	

Location of Release Source

Latitude	32.28465704	Longitude -104.2082717
		(NAD 83 in decimal degrees to 5 deci

(NAD 83 in decimal degrees to 5 decimal places)

	Site Name STERLING STATE 23 27 20 TB #004H			Site Type Oil & Gas Facili	ty		
Date Release Discovered: 10/19/2021			API# (if applicable) 30-015-446	19			
	Unit Letter	Section	Township	Range		County	
	0	20	23S	27E	Eddy	/	

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)			
Produced Water	Volume Released (bbls) 2044	Volume Recovered (bbls) 2040			
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	⊠ Yes □ No			
Condensate	Volume Released (bbls)	Volume Recovered (bbls)			
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)			
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)			
Course of Paleosa					

Cause of Release

A pinhole in the water leg, just upstream of the water transfer pump resulted in the release of approx. 2044 bbl. of produced water. The source was immediately isolated and all standing fluid was recovered. After inspecting the facility, it was found that there were two areas where the liner failed and resulted in approx. 4.6 bbl. of produced water to leach onto the engineered pad. The failure are scheduled for repair and a remediation plan will be submitted detailing the scope of work.

Received by OCD: 12/21/2021 12:11:10 PM State of New Mexico
Page 2 Oil Conservation Division

P	a	g	e	2	D)	b_j	1	2:	5

Incident ID	nAPP2129255688
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the respons	ible party consider this a major release?
release as defined by	Volume	
19.15.29.7(A) NMAC?		
⊠ Yes □ No		
If VES was immediate no	tice given to the OCD? By whom? To who	m? When and by what means (phone, email, etc)?
	email to SLO was submitted 10/19/2021	in: When and by what means (phone, eman, etc):
	Initial Res	sponse
The responsible p	party must undertake the following actions immediately t	unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and the	ne environment
<u> </u>	•	tes, absorbent pads, or other containment devices.
		•
<u> </u>	ecoverable materials have been removed and	
If all the actions described	d above have <u>not</u> been undertaken, explain wl	ny:
Per 19.15.29.8 B. (4) NM	AC the responsible party may commence rer	nediation immediately after discovery of a release. If remediation
		forts have been successfully completed or if the release occurred
within a lined containmer	at area (see 19.15.29.11(A)(5)(a) NMAC), ple	ase attach all information needed for closure evaluation.
		st of my knowledge and understand that pursuant to OCD rules and
		rations and perform corrective actions for releases which may endanger
		D does not relieve the operator of liability should their operations have to groundwater, surface water, human health or the environment. In
	f a C-141 report does not relieve the operator of re	sponsibility for compliance with any other federal, state, or local laws
and/or regulations.		
Printed Name:Mel	odie Sanjari	Title: Environmental Professional
Signature:Melod	<u>lie Sanjari</u>	Date: 10/21/2021
email: <u>msanjari@marat</u>	thonoil.com_	Telephone: <u>575-988-8753</u>
OCD Only		
Received by:		Date:
, <u> </u>		

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 57258

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	57258
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	10/25/2021

of New Mexico

Incident ID	nAPP2129255688
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>101 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vercontamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	rtical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
 ✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well ✓ Field data ✓ Data table of soil contaminant concentration data ✓ Depth to water determination ✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ✓ Boring or excavation logs ✓ Photographs including date and GIS information 	ls.
☑ Topographic/Aerial maps	

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

✓ Laboratory data including chain of custody

Received by OCD: 12/21/2021 12:11:10 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 5 of 1	25
Incident ID	nAPP2129255688	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name: Melodie Sanjari	Title: Environmental Professional					
Signature:Melodie Sanjari	Date: 12/21/2021					
email: msanjari@marathonoil.com	Telephone: <u>575-988-8753</u>					
OCD Only						
Received by:	Date:					

Page 6 of 125

Incident ID	nAPP2129255688
District RP	
Facility ID	
Application ID	

Closure

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

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

✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in
Printed Name: Melodie Sanjari	Title: Environmental Professional
Signature: Melodie Sanjari	Date: 12/21/2021
email: Melodie Sanjari	Telephone: 575-988-8753
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by:	Date: 02/02/2022
Printed Name: Jennifer Nobui	Title: _ Environmental Specialist A

wsp

WSP USA

508 West Stevens Street Carlsbad, NM 88220 575.887.0101

December 21, 2021

District II New Mexico Oil Conservation Division 811 South First Street Artesia, New Mexico 88210

RE: Closure Request

Sterling State 23 27 20 TB #004H Incident Number nAPP2129255688 Eddy County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of Marathon Oil Permian, LLC. (Marathon), is pleased to present the following Closure Request detailing site assessment, soil sampling, and excavation activities at the Sterling State 23 27 20 TB #004H (Site) located in Unit O, Section 20, Township 23 South, Range 27 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, soil sampling and excavation activities was to address impacts to soil following a release of produced water at the Site. Based on field activities, delineation and excavation activities, and results of soil sampling events, Marathon is submitting this Closure Request, describing remediation and delineation activities that have occurred and requesting no further action (NFA) for Incident Number nAPP2129255688.

RELEASE BACKGROUND

On October 19, 2021, a pinhole developed on a water leg, resulted in the release of approximately 2,044 barrels (bbls) of produced water into the lined, secondary containment and well pad. Approximately 2,040 bbls of produced water were recovered via vacuum truck. Marathon reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Form C-141 on October 21, 2021 and was assigned Incident Number nAPP2129255688.

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 greater than 101 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted water well with depth to water data and reported coordinates in an application file is New Mexico Office of the State Engineer (NMOSE) file number C-02453, located approximately 1/2-miles southeast of the Site. The NMOSE water well has a reported depth to groundwater of 175 feet bgs and a total depth of 210 feet bgs. The referenced well record is included as Attachment 1.



District II Page 2

The closest continuously flowing or significant watercourse to the Site is a stream/river, located approximately 979 feet north 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 (medium 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: 20,000 mg/kg

SITE ASSESSMENT AND LINER INSPECTION

On October 25, 2021, WSP personnel visited the Site to conduct site assessment activities and evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP reviewed and verified the Form C-141 incident description (release source and release location) with visual soil impacts and confirmed that the release impacted areas to the southeast and southwest of the containment. WSP visually inspected the lined secondary containment for any signs of holes or tears that would act as a conduit to subsurface soil. The subsequent visual inspection of liner integrity determined the liner was not in working condition. Based on the site assessment and visual observations, delineation activities appeared to be warranted to investigate potential soil impacts. Photographic documentation of the release and liner assessment is provided in Attachment 2.

DELINEATION AND SOIL SAMPLING ACTIVITIES

On November 2, 2021, WSP personnel conducted delineation activities to confirm the presence or absence of impacted soils as a result of the impaired liner. Utilizing a hand auger, WSP installed one delineation soil sample within the breach area (BH01), areas where fluids escaped outside containment (BH02 and BH03), and additional areas outside of the containment to investigate lithology and confirm lateral delineation outside containment (BH04 through BH09). Delineation activities were directed by field screening soil samples for volatile aromatic hydrocarbons using



District II Page 3

a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A total of two soil samples were collected from each of the borehole locations: the sample with the highest observed field screening concentrations (approximately 1 foot bgs) and the greatest depth (approximately 4 feet bgs). The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler initials, 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 following EPA Method 8015M/D; and chloride following EPA Method 300.0. The delineation sample locations were mapped utilizing a handheld GPS unit and are presented on Figure 2. Field screening results and observations for the boreholes were recorded on lithologic/soil sampling logs and are presented in Attachment 3.

EXCAVATION AND SOIL SAMPLING ACTIVITIES

On December 14, 2021, utilizing heavy equipment, the southeast impacted area outside containment was excavated to remove visual staining to approximately 2.5 feet bgs. Excavation continued laterally until sidewall samples were compliant with the Closure Criteria. A total of 50 cubic yards was removed during excavation activities and disposed at an R360 disposal facility under Marathon approved manifests.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet. The 5-point composite soil samples were collected by depositing five aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Confirmation soil samples SW01 through SW04 and FS01 and FS02 were collected from the excavation. The excavation sample locations were mapped utilizing a GPS unit and are depicted on Figure 3.

The excavation soil samples were collected, handled, and analyzed as previously described.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all delineation samples and excavation samples collected from the southeast excavation. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

CLOSURE REQUEST

Site assessment, delineation and excavation activities were conducted at the Site to address the October 19, 2021 release of produced water. Laboratory analytical results for delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additional efforts to remove visual staining were conducted in the area



District II Page 4

associated with BH02. Laboratory analytical results indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all excavation samples collected from the southeast excavation. Based on the soil sample analytical results, no further remediation appears required.

WSP and Marathon believe these remedial actions are protective of human health, the environment, and groundwater. As such, Marathon respectfully requests NFA for Incident Number nAPP2129255688.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

Joseph S. Hernandez

Associate Consultant, Geologist

Daniel R. Moir, P.G.

Lead Consultant, Geologist

cc: Melodie Sanjari, Marathon

Attachments:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations Figure 2 Excavation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Referenced Well Record

Attachment 2 Photographic Log

Attachment 3 Lithologic/Sampling Log

Attachment 4 Laboratory Analytical Reports

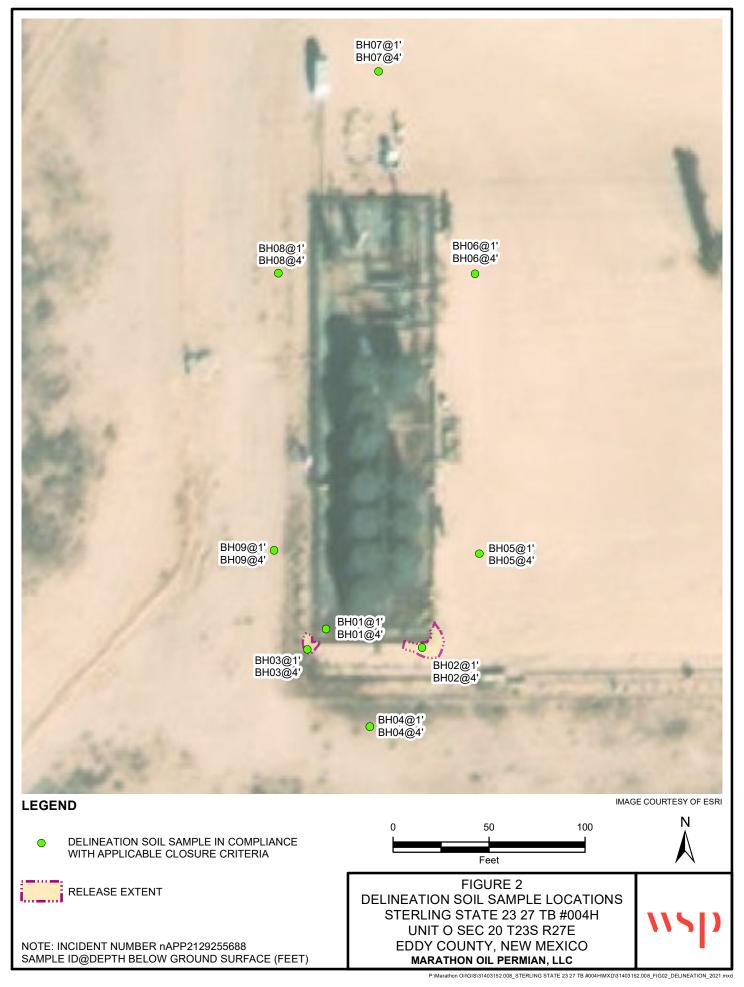




Table 1

Soil Analytical Results
Sterling State 23 27 20 TB #004H
Incident Number nAPP2129255688
Eddy 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 Clo	osure Criteria (N	MAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Samples										
BH01	11/02/2021	1	< 0.00198	< 0.00397	<49.8	<49.8	<49.8	<49.8	<49.8	13,400
BH01	11/02/2021	4	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	52.3
BH02	11/02/2021	1	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	1,310
BH02	11/02/2021	4	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	382
BH03	11/02/2021	1	< 0.00200	< 0.00400	< 50.0	<50.0	<50.0	< 50.0	<50.0	297
BH03	11/02/2021	4	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	37.3
BH04	11/02/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	30.0
BH04	11/02/2021	4	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	36.1
BH05	11/02/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	305
BH05	11/02/2021	4	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	29.4
BH06	11/02/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	262
ВН06	11/02/2021	4	< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	<50.0	15.0
BH07	11/02/2021	1	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	84.5
ВН07	11/02/2021	4	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	22.7

Table 1

Soil Analytical Results Sterling State 23 27 20 TB #004H Incident Number nAPP2129255688 Eddy 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 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
BH08	11/02/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	22.8
BH08	11/02/2021	4	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	17.7
BH09	11/02/2021	1	< 0.00200	< 0.00400	<49.8	<49.8	<49.8	<49.8	<49.8	20.3
BH09	11/02/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	< 50.0	<50.0	< 50.0	17.3
Excavation Soil Sam	ples									
FS01	12/14/2021	2.5	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	< 50.0	<50.0	437
FS02	12/14/2021	2.5	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	< 50.0	<50.0	310
SW01	12/14/2021	0 - 2.5	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	217
SW02	12/14/2021	0 - 2.5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	202
SW03	12/14/2021	0 - 2.5	< 0.00201	< 0.00402	<50.0	<50.0	<50.0	< 50.0	<50.0	9,940
SW04	12/14/2021	0 - 2.5	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	10,100

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

Greyed data represents samples that were excavated



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

 \mathbf{X} Y

C 02453

2 29 23S 27E

574876 3571372*

Driller License: 763 **Driller Company:**

C & R DRILLING

Driller Name: Drill Start Date: FELKINS, MICHAEL

02/24/1996 **Drill Finish Date:** 02/24/1996

Plug Date:

Log File Date:

04/02/1996

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 15 GPM

Casing Size:

5.00

Depth Well: 210 feet

185

Depth Water:

175 feet

Water Bearing Stratifications:

Top Bottom Description

205 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

180 210

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.

12/20/21 10:51 AM

POINT OF DIVERSION SUMMARY

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



	PHOTOGRAPHIC LOG	
Marathon Oil Permian,	Sterling State 23 27 20 TB #004H	31403152.008
LLC.	Eddy County, New Mexico	

Photo No.	Date					
1	October 25, 2021					
View of the breached area inside						

containment.



Photo No.	Date
2	October 25, 2021

View of the release area outside containment.





	PHOTOGRAPHIC LOG	
Marathon Oil Permian,	Sterling State 23 27 20 TB #004H	31403152.008
LLC.	Eddy County, New Mexico	

Photo No. Date

3 October 25, 2021

View of the release area outside containment (BH03 area)



Photo No.	Date
4	December 14,
4	2021

View of the southeast excavation area following remediation activities (BH02 area).



,								Sample ID: BH01 Site Name: Sterling State		Date: 11/2/2021 DTB #004H	
	0 11 11 1 1 1 00000								Incident Number: nAPP2129255688		
LITHOLOGIC / SOIL SAMPLING LOG									WSP Job Number: 31403152.008		
Lat/L	ona:	LITH	OLOG	IC / SOIL	Field Scre		G		Logged By: Anna Byers Hole Diameter:		Method: Hand Auger Total Depth:
32.28	34143, -104				Chloride,	PID			2.5 inches		4 feet
Comi	ments: Mois	ture Con Chloride	ent "M" field so	 Moist, "D" reening perf 	 Dry; BDL ormed with 	Below D 1:4 dilutio	etection L on of soil to	imit of Low o distilled wa	Range HACH Chloride Te ater; PID calibrated with 10	est Strips; 00.0 ppm	Chloride values do not include Isobutylene Gas and Ambient Air.
Moisture		Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Litho	ology/Re	emarks
М	12,644	12,644 0 No BH01 1 1 SC 1-3.5 ft b					1-3.5 ft b	gs: brown CLAYEY sicity, cohesive, mois	SAND ((m.), well-graded sand,	
М	5,672	0.2	No		2	2		now plast	icity, corresive, mois	ι, πο σα	IOI
М	604	0.4	No		3 _	3	SM				r-graded SAND (m.) with silt,
D	BDL	0.2	No	BH01	4	4		-	city, no cohesivenes	s, dry, r	no odor
								otal Depth			

\	11		1		WS	P USA			Sample ID: BH02		Date: 11/2/2021	
				5	08 West S	Stevens S	Street		Site Name: Sterling State			$\overline{}$
				Car	Isbad, Ne	w Mexico	88220		Incident Number: nAPP2			
									WSP Job Number: 31403	3152.008		
		LITH	OLOG	IC / SOIL			G		Logged By: Anna Byers		Method: Hand Auger	
Lat/Lo	ong: 34113, -104	208740			Field Scre				Hole Diameter: 2.5 inches		Total Depth:	
			tent "M"	' - Moist. "D"	Chloride, - Dry; BDL		etection L	imit of Low		est Strips	4 feet ; Chloride values do not include	
corre	ction factor	Chloride	field so	reening perf	ormed with	1:4 dilutio	on of soil to	o distilled w	ater; PID calibrated with 1	00.0 ppm	Isobutylene Gas and Ambient Air	r.
Moisture Content	Moisture Content Content Chloride (ppm) Vapor (ppm) Sample Bubber Sample Chloride (ppm) Staining Sample Debth (tt pds) USCS/Rock Symbol								Lithology/Remarks			
N.A.	1 226	1.4	No	PHOS		0	SC		s: dry compact pad s			
M	1,336	1.4	No	BH02	1 _	- -	50		ticity, cohesive, mois		n.), well-graded sand, dor	
	M 1,184 1.0 No 2 1 2							0.451	a. Bahah		and a CAND (a) W	
								s: light brown to tan p city, no cohesivenes		graded SAND (m.) with silt, t, no odor		
M	504	0.4	No	BH02	4	4	т.	tol Dest				
								otal Depth				

	'''	1)	5 Car	WS 08 West S Isbad, Ne	P USA Stevens S w Mexico	Street 88220		Sample ID: BH03 Site Name: Sterling State Incident Number: nAPP2 WSP Job Number: 3140:	1292556	888	
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: Anna Byers		Method: Hand Auger	
Lat/Lo		200047			Field Scre				Hole Diameter:		Total Depth:	
	4115, -104 nents: Mois		tent "M'	' - Moist. "D"	Chloride, - Dry; BDL	רוט Below ח	etection I	imit of Low	2.5 inches Range HACH Chloride Te	est Strips	4 feet s; Chloride values do not include	
correc	ction factor	Chloride	field so	reening perf	ormed with	1:4 dilutio	on of soil to	distilled w	ater; PID calibrated with 1	00.0 ppr	n Isobutylene Gas and Ambient Air.	
Moisture Content Chloride (ppm) Vapor (ppm) Staining Sample # Sample model (ppm) Staining								Lithology/Remarks				
M 296 0.3 No BH03 1 1 SC 1-4 ft bgs									ticity, cohesive, no o	SAND (m.), well-graded sand,	
М	*color								adually lightens with	depth	(brown to tan)	
M	BDL	0.2	No	DLIOS	3 _	3						
	D BDL 0.3 No BH03 4 4 Total Depth											

	''')	Car	08 West S Isbad, Ne	w Mexico	88220		Sample ID: BH04 Site Name: Sterling State Incident Number: nAPP2 WSP Job Number: 3140	21292556	3	
<u> </u>		LITH	OLOG	IC / SOIL			G		Logged By: Anna Byers		Method: Hand Auger	
Lat/Lo	ong: 4005, -104	.208843			Field Screen Chloride,				Hole Diameter: 2.5 inches		Total Depth: 4 feet	
Comm	nents: Mois	ture Con	tent "M' field so	' - Moist, "D" creening perf	- Dry; BDL	- Below D	on of soil to	imit of Low o distilled w	Range HACH Chloride Te	est Strips	r Rock ; Chloride values do not include n Isobutylene Gas and Ambient Air.	
Moisture Content Chloride (ppm) Vapor (ppm) Staining								Lithology/Remarks				
D	U 0 SP-SM 0-2 ft bg cohesiv								s: brown SAND (m.) eness, trace roots, di			
D									s: light brown CLAYI ticity, cohesive, dry,		ND (m.), well-graded sand, r	
D	BDL	0.1	No		3	3						
D	BDL	0.0	No	BH04	4	4		tal Direct				
	D BDL 0.0 No BH04 4 4 Total Depth											

	\\'	5)	5 Car	WS 08 West 9 Isbad, Ne	P USA Stevens S w Mexico	Street 88220		Sample ID: BH05 Site Name: Sterling State Incident Number: nAPP2 WSP Job Number: 31403	1292556	888		
		LITH	OLOG	IC / SOIL	SAMPL	ING LO	G		Logged By: Anna Byers		Method: Hand Auger		
Lat/Lo					Field Scre				Hole Diameter:		Total Depth:		
	4252, -104				Chloride,	PID -	ata di sa		2.5 inches	0	4 feet		
correc	nents: Mois ction factor:	ture Con Chloride	tent "M' field so	- Moist, "D" creening perf	- טry; BDL formed with	Below D ı 1:4 dilutic	etection L on of soil to	imit of Low distilled w	Range HACH Chloride Te ater; PID calibrated with 1	est Strips 00.0 ppn	s; Chloride values do not include n Isobutylene Gas and Ambient Air.		
Moisture Content Chloride (ppm) Vapor (ppm) Staining Samble # Sample # OCS/Rock Symbol									Lithology/Remarks				
M 372 0.0 No BH05 1 1 SC 1-4 ft b low pla								1-4 ft bg	it bgs: dry compact pad surface caliche if bgs: brown* CLAYEY SAND (m.), well-graded sand, plasticity, cohesive, no odor or gradually lightens with depth (brown to tan)				
M	M 296 0.1 No 2 T 2												
D BDL 0.0 No 3 1 3 1 3 1 D BDL 0.0 No BH05 4 4 4													
	D BDL 0.0 No BH05 4 4 4 Total Depth												

\	'''	5)	5 Carl	WS 08 West S sbad, Ne	P USA Stevens S w Mexico		Sample ID: Date: BH06				
		LITH		ic /soll	CAMDI	INCLO	<u> </u>			3152.008		
Lat/Lo	ona:	LIII	OLUG	SIC / SOIL	Field Scre		G		Logged By: Anna Byers Hole Diameter:		Method: Hand Auger Total Depth:	
	34653, -104	.208664			Chloride,				2.5 inches		4 feet	
Comr	ments: Mois ction factor	sture Cont ; Chloride	tent "M' field so	' - Moist, "D" creening perf	 Dry; BDL ormed with 	- Below D 1:4 dilutio	n of soil to	imit of Low o distilled w	Range HACH Chloride Teater; PID calibrated with 1	est Strips 00.0 ppr	s; Chloride values do not include n Isobutylene Gas and Ambient Air.	
Moisture Content Chloride (ppm) Vapor (ppm) Staining								Lithology/Remarks				
D	260	0.2	No	BH06	1 1	0 - - 1	CCHE SC	1-4 ft bg		SAND (m.), well-graded sand,	
D 260 0.2 No BH06 1 1 1 SC 1-4 ft bgs: brown* CLAYEY SAND (m.), well-graded sand, low plasticity, cohesive, trace roots, dry, no odor *color gradually lightens with depth (brown to tan) D BDL 0.0 No 2 2 2									dry, no odor			
D	D BDL 0.0 No 3 3 3											
D	BDL	0.0	No	BH06	4	4	То	tal Danth				
	D BDL 0.0 No BH06 4 4 4 Total Depth											

	'''	5)	5 Car	WS 08 West S Isbad, Ne	P USA Stevens S w Mexico	Street 88220		Sample ID: BH07 Site Name: Sterling State Incident Number: nAPP2	1292556	888		
		LITL		IC / SOIL	SAMDI	INGLO	G		WSP Job Number: 31403	3152.008	1		
Lat/Lo	ona:	FI I EI	JLUG	1 3011	Field Scre		3		Logged By: Anna Byers Hole Diameter:		Method: Hand Auger Total Depth:		
32.28	4942, -104				Chloride,	PID			2.5 inches		4 feet		
Comm	nents: Mois	sture Con Chloride	tent "M' field so	' - Moist, "D" creening perf	 Dry; BDL ormed with 	Below D 1:4 dilutio	etection L on of soil to	imit of Low distilled w	Range HACH Chloride Te ater; PID calibrated with 1	est Strips 00.0 ppn	; Chloride values do not include n Isobutylene Gas and Ambient Air.		
Content Chloride (ppm) Vapor (ppm) Vapor (ppm) Sample # Sample model (ppm) Staining (ppm) Sample model (ppm) Sample mod									Lithology/Remarks				
D	BDL	0.1	No	ВН07	1 1 -	0 - 1 - 1	s: dry compact pad s s: brown* CLAYEY S ticity, cohesive, dry, r adually lightens with	SAND (m.), well-graded sand, r				
D													
D	BDL	0.2	No	BH07	4	4		tal Danth					
	D BDL 0.2 No BH07 4 4 4 Total Depth												

7	11	Si)			P USA		Sample ID: BH08		Date: 11/2/2021		
				5 Car	08 West S Isbad, Ne	Stevens S w Mexico	Street 88220		Site Name: Sterling State Incident Number: nAPP2			
									WSP Job Number: 31403	3152.008	3	
		LITH	OLOG	IC / SOIL			G		Logged By: Anna Byers		Method: Hand Auger	
Lat/Lo 32.28	ong: 4654, -104	.208996			Field Scre Chloride,				Hole Diameter: 2.5 inches		Total Depth: 4 feet	
Comr	nents: Mois	ture Con Chloride	tent "M' field so	' - Moist, "D" creening perf	- Dry; BDL ormed with	- Below D 1:4 dilutio	etection L on of soil to	imit of Low distilled w	Range HACH Chloride Teater; PID calibrated with 1	est Strips 00.0 ppn	s; Chloride values do not include n Isobutylene Gas and Ambient Air.	
Moisture Content Chloride (ppm) Vapor (ppm) Staining Staining Staining Staining Napor (ppm) Staining								Lithology/Remarks				
U 0 SP-SM 0-1 ft bgs: cohesivene								ogs: brown SAND (m.) with silt, no plasticity, no veness, trace roots, dry, no odor ogs: light brown CLAYEY SAND (m.), well-graded sand,				
	low pla								ticity, cohesive, dry,			
D	D BDL 0.0 No 2 1 2 1 2 1 D BDL 0.1 No 3 3 3											
				BH08	4	- - - 4						
	D BDL 0.0 No BH08 4 4 4 Total Depth											

	\\') OLOG	Car SIC / SOII	08 West S Isbad, Ne	w Mexico		Sample ID: BH09 Site Name: Sterling State Incident Number: nAPP2 WSP Job Number: 3140 Logged By: Anna Byers	21292556	688 8 Method: Hand Auger	
Lat/Lo 32.28	ong: 34257, -104	.209003			Field Scre Chloride,				Hole Diameter: 2.5 inches		Total Depth: 4 feet
Comr	nents: Mois	sture Con	tent "M'	' - Moist, "D"	- Dry; BDL	Below D	Detection L	imit of Low	Range HACH Chloride To	est Strips	s; Chloride values do not include m Isobutylene Gas and Ambient Air.
Moisture Content Content Content Content Content Chloride (ppm) Vapor (ppm) Staining Staining Sample # Content (ppm) Vapor (ppm) Staining Staining Staining Sample # Sample # Sample # Content (ppm) Staining Stai								Lithology/Remarks			
0 SP-SM 0-2 ft bgs: brown									ness, trace roots, d	ry, no c	odor
D	low pla								s: light brown CLAY icity, cohesive, dry,		ND (m.), well-graded sand, or
٥	BDL	0.0	No	BH09	4	4	To	otal Depth			



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1518-1

Laboratory Sample Delivery Group: Eddy County

Client Project/Site: Sterling 4H 6H CTB

For:

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

Attn: Joseph Hernandez

RAMER

Authorized for release by: 11/8/2021 3:12:25 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

·····LINKS ·······

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/2/2022 2:04:44 PM

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

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

Client: WSP USA Inc.

Laboratory Job ID: 890-1518-1

Project/Site: Sterling 4H 6H CTB

SDG: Eddy County

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	19

2

3

4

6

8

10

12

13

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1518-1 Project/Site: Sterling 4H 6H CTB SDG: Eddy County

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

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

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly	y used abbreviations may	or may	not be i	present in this report
Appleviation	THESE COMMINGING	y useu abbi eviations ma	y Oi illay	HOL DE	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

NC Not Calculated

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

Eurofins Xenco, Carlsbad

Case Narrative

Client: WSP USA Inc.

Project/Site: Sterling 4H 6H CTB

Job ID: 890-1518-1

SDG: Eddy County

Job ID: 890-1518-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1518-1

Receipt

The sample was received on 11/2/2021 2:48 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

GC VOA

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

GC Semi VOA

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

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11446 and analytical batch 880-11458 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Lab Sample ID: 890-1518-1

Client Sample Results

Job ID: 890-1518-1 Client: WSP USA Inc. Project/Site: Sterling 4H 6H CTB SDG: Eddy County

Client Sample ID: BH01

Date Collected: 11/02/21 09:10 Date Received: 11/02/21 14:48

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/04/21 11:00	11/04/21 12:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			11/04/21 11:00	11/04/21 12:08	1
1,4-Difluorobenzene (Surr)	98		70 - 130			11/04/21 11:00	11/04/21 12:08	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			11/05/21 13:34	1
Method: 8015 NM - Diesel Range Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/05/21 13:50	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		11/04/21 11:00	11/04/21 12:59	
								1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 11:00	11/04/21 12:59	
Diesel Range Organics (Over	<49.9 <49.9		49.9 49.9	mg/Kg mg/Kg		11/04/21 11:00 11/04/21 11:00	11/04/21 12:59 11/04/21 12:59	1
Diesel Range Organics (Over C10-C28)		U						1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U	49.9			11/04/21 11:00	11/04/21 12:59	1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 %Recovery 73	U	49.9			11/04/21 11:00 Prepared	11/04/21 12:59 Analyzed	1 Dil Fac
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 %Recovery 73 69	U Qualifier S1-	49.9 Limits 70 - 130			11/04/21 11:00 Prepared 11/04/21 11:00	11/04/21 12:59 Analyzed 11/04/21 12:59	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 **Recovery 73 69 omatography -	U Qualifier S1-	49.9 Limits 70 - 130		<u>D</u>	11/04/21 11:00 Prepared 11/04/21 11:00	11/04/21 12:59 Analyzed 11/04/21 12:59	1 Dil Fac

Surrogate Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6H CTB

Job ID: 890-1518-1

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Red
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-A-53-E MS	Matrix Spike	124	100	
890-1502-A-53-F MSD	Matrix Spike Duplicate	109	96	
890-1518-1	BH01	115	98	
LCS 880-11388/1-A	Lab Control Sample	129	85	
LCSD 880-11388/2-A	Lab Control Sample Dup	105	102	
MB 880-11388/5-A	Method Blank	96	99	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1502-A-121-F MS	Matrix Spike	100	92	
890-1502-A-121-G MSD	Matrix Spike Duplicate	92	84	
890-1518-1	BH01	73	69 S1-	
LCS 880-11376/2-A	Lab Control Sample	108	88	
LCSD 880-11376/3-A	Lab Control Sample Dup	103	95	
MB 880-11376/1-A	Method Blank	89	94	
Surrogate Legend				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

2

3

4

6

8

3

11

13

14

Client: WSP USA Inc.

Job ID: 890-1518-1

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11388/5-A

Lab Sample ID: LCS 880-11388/1-A

Matrix: Solid

Project/Site: Sterling 4H 6H CTB

Matrix: Solid Analysis Batch: 11420 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11388

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/04/21 08:30	11/04/21 11:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/04/21 08:30	11/04/21 11:26	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		70 - 130		1/04/21 08:30	11/04/21 11:26	1
1,4-Difluorobenzene (Surr)	99		70 - 130	1	1/04/21 08:30	11/04/21 11:26	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analysis Batch: 11420 Prep Batch: 11388 LCS LCS

Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.07875 mg/Kg 79 70 - 130 Toluene 0.100 0.09099 mg/Kg 91 70 - 130 0.100 105 Ethylbenzene 0.1049 mg/Kg 70 - 130 0.200 98 70 - 130 m-Xylene & p-Xylene 0.1959 mg/Kg 0.100 0.1016 70 - 130 o-Xylene mg/Kg 102

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	129	70 - 130
1,4-Difluorobenzene (Surr)	85	70 - 130

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-11388/2-A **Matrix: Solid**

Analysis Batch: 11420

Prep Type: Total/NA Prep Batch: 11388

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07843		mg/Kg		78	70 - 130	0	35
Toluene	0.100	0.07723		mg/Kg		77	70 - 130	16	35
Ethylbenzene	0.100	0.07689		mg/Kg		77	70 - 130	31	35
m-Xylene & p-Xylene	0.200	0.1621		mg/Kg		81	70 - 130	19	35
o-Xylene	0.100	0.08020		mg/Kg		80	70 - 130	24	35

LCSD LCSD

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: 890-1502-A-53-E MS

Matrix: Solid

Analysis Batch: 11420

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

Prep Batch: 11388

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00202	U	0.0994	0.07316		mg/Kg		74	70 - 130	
Toluene	<0.00202	U	0.0994	0.07604		mg/Kg		75	70 - 130	

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1518-1 Project/Site: Sterling 4H 6H CTB SDG: Eddy County

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

Lab Sample ID: 890-1502-A-53-E MS

Lab Sample ID: 890-1502-A-53-F MSD

Matrix: Solid

Analysis Batch: 11420

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11388

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00202 U 0.0994 0.07655 77 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00403 U 0.199 0.1626 mg/Kg 82 70 - 130 0.0994 o-Xylene <0.00202 U 0.08042 mg/Kg 81 70 - 130

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11388

Analysis Batch: 11420

Matrix: Solid

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0998	0.08660		mg/Kg		87	70 - 130	17	35
Toluene	<0.00202	U	0.0998	0.08136		mg/Kg		80	70 - 130	7	35
Ethylbenzene	<0.00202	U	0.0998	0.07768		mg/Kg		78	70 - 130	1	35
m-Xylene & p-Xylene	<0.00403	U	0.200	0.1611		mg/Kg		81	70 - 130	1	35
o-Xylene	<0.00202	U	0.0998	0.08199		mg/Kg		82	70 - 130	2	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

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

Lab Sample ID: MB 880-11376/1-A

Matrix: Solid

Analysis Batch: 11414

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

Prep Batch: 11376

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/03/21 13:58	11/04/21 09:53	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130	11/03/21 13:5	8 11/04/21 09:53	1
o-Terphenyl	94		70 - 130	11/03/21 13:5	8 11/04/21 09:53	1

Lab Sample ID: LCS 880-11376/2-A

Matrix: Solid

Analysis Batch: 11414

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

Prep Batch: 11376

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	977.8		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	838.1		mg/Kg		84	70 - 130	
C10-C28)								

Job ID: 890-1518-1

SDG: Eddy County

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

Lab Sample ID: LCS 880-11376/2-A

Project/Site: Sterling 4H 6H CTB

Matrix: Solid

Client: WSP USA Inc.

Analysis Batch: 11414

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11376

LCS LCS

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 108 70 - 130 o-Terphenyl 88 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11376

Lab Sample ID: LCSD 880-11376/3-A **Matrix: Solid**

Lab Sample ID: 890-1502-A-121-F MS

Analysis Batch: 11414

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	965.5		mg/Kg		97	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	913.0		mg/Kg		91	70 - 130	9	20
C10-C28)									

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	95		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11376

Sample Sample Spike MS MS Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 997 1036 mg/Kg 101 70 - 130 (GRO)-C6-C10 70 - 130 Diesel Range Organics (Over <49.9 U 997 863.0 mg/Kg 84

C10-C28)

Matrix: Solid

Analysis Batch: 11414

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

Lab Sample ID: 890-1502-A-121-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 11414

Prep Type: Total/NA Prep Batch: 11376

	Sample	Sample	Бріке	MSD	M2D				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	<49.9	U	1000	954.6		mg/Kg		93	70 - 130	8	20	
(GRO)-C6-C10												
Diesel Range Organics (Over	<49.9	U	1000	789.2		mg/Kg		77	70 - 130	9	20	
040 000)												

C10-C28)

MSD	MSD	
Recovery	Qualifier	Limits
92		70 - 130

Camania Camania

Surrogate %F 1-Chlorooctane o-Terphenyl 84 70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1518-1 Project/Site: Sterling 4H 6H CTB

SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11446/1-A

Lab Sample ID: LCS 880-11446/2-A

Client Sample ID: Method Blank

Prep Type: Soluble

Analysis Batch: 11458

Matrix: Solid

Matrix: Solid

мв мв

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 11/07/21 14:01

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Client Sample ID: BH01

Client Sample ID: BH01

Prep Type: Soluble

Prep Type: Soluble

Analysis Batch: 11458

Spike LCS LCS %Rec. Added Qualifier Analyte Result Unit D %Rec Limits Chloride 250 245.1 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-11446/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 11458

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 245.1 mg/Kg 90 - 110

Lab Sample ID: 890-1518-1 MS

Matrix: Solid

Analysis Batch: 11458

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 52.3 F1 250 331.8 F1 112 90 - 110 mg/Kg

Lab Sample ID: 890-1518-1 MSD

Matrix: Solid

Analysis Batch: 11458

Sample Sample Spike MSD MSD %Rec. RPD Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Limit Chloride 52.3 F1 250 332.8 F1 mg/Kg 112 90 - 110 0 20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1518-1 Project/Site: Sterling 4H 6H CTB SDG: Eddy County

GC VOA

Prep Batch: 11388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	5035	
MB 880-11388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1502-A-53-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1502-A-53-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	8021B	11388
MB 880-11388/5-A	Method Blank	Total/NA	Solid	8021B	11388
LCS 880-11388/1-A	Lab Control Sample	Total/NA	Solid	8021B	11388
LCSD 880-11388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11388
890-1502-A-53-E MS	Matrix Spike	Total/NA	Solid	8021B	11388
890-1502-A-53-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11388

Analysis Batch: 11588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11376

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	8015NM Prep	
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1502-A-121-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1502-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	8015B NM	11376
MB 880-11376/1-A	Method Blank	Total/NA	Solid	8015B NM	11376
LCS 880-11376/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11376
LCSD 880-11376/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11376
890-1502-A-121-F MS	Matrix Spike	Total/NA	Solid	8015B NM	11376
890-1502-A-121-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11376

Analysis Batch: 11598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Soluble	Solid	DI Leach	
MB 880-11446/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11446/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11446/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6H CTB

Job ID: 890-1518-1

SDG: Eddy County

HPLC/IC (Continued)

Leach Batch: 11446 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1 MS	BH01	Soluble	Solid	DI Leach	
890-1518-1 MSD	BH01	Soluble	Solid	DI Leach	

Analysis Batch: 11458

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1518-1	BH01	Soluble	Solid	300.0	11446
MB 880-11446/1-A	Method Blank	Soluble	Solid	300.0	11446
LCS 880-11446/2-A	Lab Control Sample	Soluble	Solid	300.0	11446
LCSD 880-11446/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11446
890-1518-1 MS	BH01	Soluble	Solid	300.0	11446
890-1518-1 MSD	BH01	Soluble	Solid	300.0	11446

5

3

4

6

8

11

12

14

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1518-1 Project/Site: Sterling 4H 6H CTB SDG: Eddy County

Client Sample ID: BH01

Lab Sample ID: 890-1518-1

Date Collected: 11/02/21 09:10 Date Received: 11/02/21 14:48

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11388	11/04/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11420	11/04/21 12:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			11588	11/05/21 13:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11598	11/05/21 13:50	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11376	11/04/21 11:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11414	11/04/21 12:59	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11446	11/04/21 11:14	SC	XEN MID
Soluble	Analysis	300.0		1			11458	11/07/21 14:43	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: 890-1518-1 Project/Site: Sterling 4H 6H CTB

SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

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

Method Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6H CTB

Job ID: 890-1518-1

SDG: Eddy County

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

Released to Imaging: 2/2/2022 2:04:44 PM

Sample Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6H CTB

Job ID: 890-1518-1

SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1518-1	BH01	Solid	11/02/21 09:10	11/02/21 14:48	4

eurofins

13 14

Chain of Custody

EST Preservative Codes	ANALYSIS REQUEST	Turn Around	Sterling 4H 6H CTB TU
Deliverables. EDD Noari D. Otiei.	Email: Who a byers & wop. com	ma.by	(281) 752 - 2329 Ema
ADSBT	and a second	2	
Reporting: Level II Level III PST/UST TRRP Level IV		City, State ZIP:	Midland LX Habou
State of Project:		Address:	3380 7 A Street
Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐		Company Name:	WSP USA
Work Order Comments	Alm WSP: Joseph Hernandez	Bill to: (if different)	Joseph Hernandez
www.xenco.com Page of			
	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	Hobbs, NM (5	
	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	EL Paso, TX (9	Xenco
Work Order No:	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334	Midland, TX (43	Environment Testing
	Flousion, 1 \(\((201) \) 270-7200, Dallas, 1 \(\((217) \) 202-0300	nousion, 10	

City, State ZIP:

roject Number

31405152.008

Routine

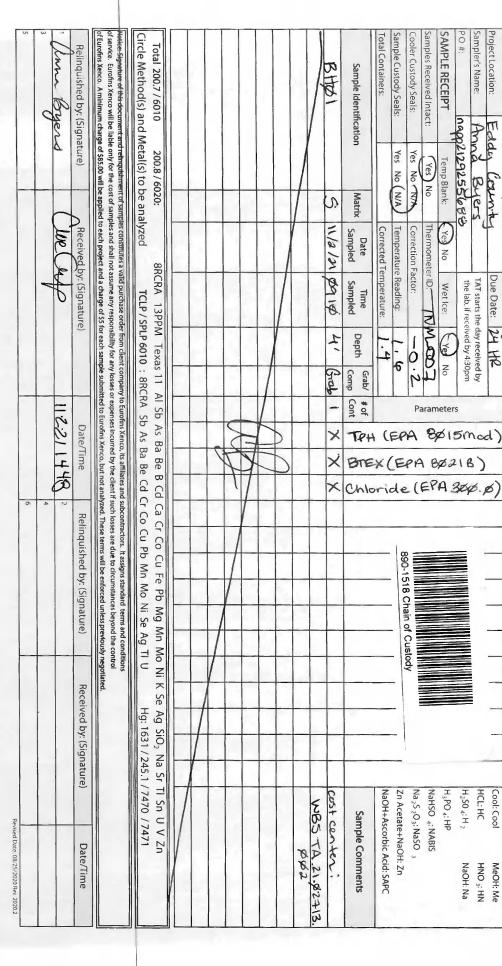
Code

Cool: Cool None: NO

DI Water: H₂O

oject Name:

Address: ompany Name:



Chain of Custody Record

Eurofins Xenco, Carlsbad	,			J		•											.	🦫 eurofins 📗	· · · · · · · · · · · · · · · · · · ·
Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199		Chain of Custody Record	Cust	ody Re	#COT	_			_									Par S	America
ormation (Sub Contract Lab)	Sampler			Lab PM Kramer	er Jessica	λú					Carrier Tracking No(s)	Track	ng No	(s)			ထွ ႙	COC No: 890-494 1	
Client Contact: Shipping/Receiving	Phone			E-Mail Jessic	E-Mail essica.kramer@eurofinset.com	@euro	înset o	com			State of Origin New Mexico	f Origi	βÞ				D D	Page Page 1 of 1	
Company: Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana, NELAP	ns Requi Louisia	red (Sei na, NE	e note)) - Texas	1							გ გ	Job #: 890-1518-1	
Address 1211 W Florida Ave	Due Date Requested 11/4/2021	α						Anal	lvsis Requested	R PO	100	롸					ᆿ	00	
City: Midland	TAT Requested (days):	ys)·			173 173 1843			H						\vdash	\blacksquare	5-1	BΑ	NaOH	Hexane None
State Zip: TX 79701					Allen sin												ımoc	Nitric Acid NaHSO4	P Na2O4S Q-Na2SO3
Phone 432-704-5440(Tel)	PO#:				igar rayanir												ד ה ד	MeOH Amchlor Ascorbic Acid	Na2S2O3 H2SO4 TSP Dodecahydrate
Email	WO#				No)									-		ngrani n e	<u> </u>	ice Di Water	Acetone MCAA
Project Name Sterling 4H 6H CTB	Project #: 89000048			700 02 742700	s or l		EX									2.300ks		EDIA W	pH 4-5 other (specify)
Site	SSOW#				SD (Y			·v									00 K - Kiri	Other:	
		Sample	Sample Type	Matrix (w=water S=solid,	d Filtered form MS/N 5MOD_NM/8	ORGFM_28	1B/6036FP_	ILBTEX_GO	-							111	al Number		
Sampe (ventimedion: Shent ib (Lab Ib)	Sample Date		Preservation Code:	تا دسا	X	and -	فبعد	4000		or and the			. 410	mples .			4	opecial instructions/Note	ctions/Note
BH01 (890-1518-1)	11/2/21	09 10 Mountain		Solid	×	×	×	×								%			
																E	<u> </u>		
								-					_		_		4		
	and the second s																Land link		
							1		<u> </u>			-	ļ	-	ļ	78° 0			
																	A		
Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody if the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins 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.	laces the ownership eing analyzed the sa signed Chain of Cu	of method anal imples must be stody attesting t	yte & accredita shipped back t o said complica	tion compliance o the Eurofins) ance to Eurofins	upon out : Kenco LLC Xenco LL	subcontra laborator C.	act labo y or oth	ratories er instr	. This uctions	sample will be	shipm	ent is	forwar 1y cha	ded u	nder o	hain⊣ redita	of-cus tion s	stody If the laboratory d	oes not currently to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed			:		Samp	Sample Disposal (A fee may be assessed if samples Return To Client Disposal By Lab	osal .	(A fe	e maj	∏be a	assessed if san Disposal By Lab	sed i	f san /Lab	ples	□are	□reta A	inec	are retained longer than 1 month) Archive For Mon	nth) Months
Deliverable Requested II III IV Other (specify)	Primary Deliverable Rank. 2	able Rank. 2			Speci	Special Instructions/QC	ıction		Requirements	reme	र्ड	l							
Empty Kit Relinquished by		Date			Time.	5					Ш	Method of Shipment:	d of SI	nipme	큐				
Relinquished by (100 Cut) 11.3.2	Date/Time Date/Time		0 0	Company	Rec	Received by		B		6	1			Date/Time	ime:	tc	$\exists \omega$	2 140	Company
Relinquished by	Date/Time:			Company	æ	Redeived by:	Ÿ							Date/Time [.]	ime:	ı		S	Company
Custody Seals Intact Custody Seal No					Ω	Cooler Temperature(s) °C and Other Remarks.	peratu	e(s) °C	and O	ther Re	marks	6	N	\mathcal{L}	9		0		

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1518-1 SDG Number: Eddy County

List Source: Eurofins Xenco, Carlsbad

Login Number: 1518 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	

2

3

5

7

9

11

12

14

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1518-1 SDG Number: Eddy County

Login Number: 1518
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 11/04/21 10:33 AM

Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5/3.6
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	

4

4

_

9

11

12

77

14

<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: 890-1519-1

Laboratory Sample Delivery Group: Eddy County Client Project/Site: Sterling 4H 6HCTB - 31403152.008

For:

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

Attn: Joseph Hernandez

MAMER

Authorized for release by: 11/11/2021 12:22:41 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/2/2022 2:04:44 PM

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

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

1

2

3

Ē

6

10

12

13

Client: WSP USA Inc. Project/Site: Sterling 4H 6HCTB - 31403152.008 Laboratory Job ID: 890-1519-1 SDG: Eddy County

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	19
QC Sample Results	21
QC Association Summary	28
Lab Chronicle	33
Certification Summary	39
Method Summary	40
Sample Summary	41
Chain of Custody	42
Receint Checklists	46

2

3

4

6

Ö

10

12

13

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

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

*1 LCS/LCSD RPD exceeds control limits. F1 MS and/or MSD recovery exceeds control limits. S1-Surrogate recovery exceeds control limits, low biased.

Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description** F1 MS and/or MSD recovery exceeds control limits.

U

Indicates the analyte was analyzed for but not detected.

Glossary

%R

MQL

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

Decision Level Concentration (Radiochemistry) DLC

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

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

Method Quantitation Limit

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

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

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Job ID: 890-1519-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1519-1

Receipt

The samples were received on 11/2/2021 2:53 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°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 880-11464 and analytical batch 880-11507 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-11464 and analytical batch 880-11507 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 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11589 and analytical batch 880-11624 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

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

HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-11463 and analytical batch 880-11706 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Lab Sample ID: 890-1519-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

Client Sample ID: BH01

Date Collected: 11/02/21 08:55 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
Toluene	<0.00198	U	0.00198	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		11/05/21 16:41	11/06/21 11:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			11/05/21 16:41	11/06/21 11:14	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/05/21 16:41	11/06/21 11:14	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	n) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte								
Allalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	Result <49.8		49.8	Mg/Kg	<u>D</u>	Prepared 11/04/21 13:07	Analyzed 11/05/21 15:17	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U *1			<u> </u>			
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg	<u>D</u>	11/04/21 13:07	11/05/21 15:17	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.8 <49.8	U*1 U	49.8	mg/Kg	<u>D</u>	11/04/21 13:07	11/05/21 15:17 11/05/21 15:17	1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.8 <49.8 <49.8	U*1 U	49.8 49.8 49.8	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	11/05/21 15:17 11/05/21 15:17 11/05/21 15:17	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.8 <49.8 <49.8 %Recovery	U*1 U	49.8 49.8 49.8 <i>Limits</i>	mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	11/05/21 15:17 11/05/21 15:17 11/05/21 15:17 Analyzed	1 1 1 Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.8 <49.8 <49.8 %Recovery 97 107	U *1 U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	11/05/21 15:17 11/05/21 15:17 11/05/21 15:17 Analyzed 11/05/21 15:17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.8 <49.8 <49.8 **Recovery 97 107 omatography -	U *1 U Qualifier	49.8 49.8 49.8 Limits 70 - 130	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	11/05/21 15:17 11/05/21 15:17 11/05/21 15:17 Analyzed 11/05/21 15:17	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Client Sample ID: BH02

Date Collected: 11/02/21 09:40

Date Received: 11/02/21 14:53

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 11:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130			11/05/21 16:41	11/06/21 11:35	
1,4-Difluorobenzene (Surr)	100		70 - 130			11/05/21 16:41	11/06/21 11:35	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1519-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1

Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Client Sample ID: BH02

Lab Sample ID: 890-1519-2 Date Collected: 11/02/21 09:40 Matrix: Solid

Date Received: 11/02/21 14:53

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U *1	50.0	mg/Kg		11/04/21 13:07	11/05/21 15:39	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/04/21 13:07	11/05/21 15:39	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/04/21 13:07	11/05/21 15:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			11/04/21 13:07	11/05/21 15:39	1
o-Terphenyl	99		70 - 130			11/04/21 13:07	11/05/21 15:39	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1310		4.98	mg/Kg			11/09/21 09:20	

Client Sample ID: BH02 Lab Sample ID: 890-1519-3

Date Collected: 11/02/21 09:52 Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 11:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130			11/05/21 16:41	11/06/21 11:55	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/05/21 16:41	11/06/21 11:55	1
Method: Total BTEX - Total BT	EV Coloulation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
	• • •	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rang Analyte Total TPH	• • •	Qualifier	RL 49.8	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/09/21 16:19	Dil Fac
Analyte Total TPH	Result <49.8	Qualifier U			<u>D</u>	Prepared		Dil Fac
Analyte	Result <49.8	Qualifier U			<u>D</u>	Prepared Prepared		Dil Fac

Eurofins Xenco, Carlsbad

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client: WSP USA Inc.

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH02

Date Collected: 11/02/21 09:52 Date Received: 11/02/21 14:53

Sample Depth: 4

Lab Sample ID: 890-1519-3

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/04/21 13:07	11/05/21 16:01	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/04/21 13:07	11/05/21 16:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130			11/04/21 13:07	11/05/21 16:01	1
o-Terphenyl	101		70 - 130			11/04/21 13:07	11/05/21 16:01	1

Result Qualifier RL Unit Prepared Dil Fac Analyte D Analyzed 4.99 11/09/21 09:28 Chloride 382 F1 mg/Kg **Client Sample ID: BH03** Lab Sample ID: 890-1519-4

Date Collected: 11/02/21 10:30 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 12:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			11/05/21 16:41	11/06/21 12:16	1
1,4-Difluorobenzene (Surr)	99		70 - 130			11/05/21 16:41	11/06/21 12:16	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/08/21 17:11	1
-			0.00400	mg/Kg			11/08/21 17:11	1
: Method: 8015 NM - Diesel Range	Organics (DR		0.00400 RL	mg/Kg Unit	D	Prepared	11/08/21 17:11 Analyzed	
Total BTEX Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR	O) (GC) Qualifier			<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH	Organics (DR/ Result <50.0	O) (GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Organics (DR) Result < 50.0 ge Organics (DI)	O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR) Result < 50.0 ge Organics (DI)	O) (GC) Qualifier U RO) (GC) Qualifier	RL 50.0	Unit mg/Kg			Analyzed 11/09/21 16:19	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Organics (DR/Result <50.0 ge Organics (D/Result <50.0	Qualifier U RO) (GC) Qualifier U *1	RL 50.0	Unit mg/Kg		Prepared 11/04/21 13:07	Analyzed 11/09/21 16:19 Analyzed 11/05/21 16:22	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Organics (DR/Result <50.0 ge Organics (D/Result Result Result)	Qualifier U RO) (GC) Qualifier U *1	RL 	Unit mg/Kg		Prepared	Analyzed 11/09/21 16:19 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <50.0 <50.0	Qualifier U RO) (GC) Qualifier U *1	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07	Analyzed 11/09/21 16:19 Analyzed 11/05/21 16:22 11/05/21 16:22	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Organics (DR/Result <50.0 ge Organics (D/Result <50.0	Qualifier U RO) (GC) Qualifier U *1	RL 50.0	Unit mg/Kg Unit mg/Kg		Prepared 11/04/21 13:07	Analyzed 11/09/21 16:19 Analyzed 11/05/21 16:22	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Organics (DR/Result <50.0 ge Organics (D/Result <50.0 <50.0 <50.0	O) (GC) Qualifier U RO) (GC) Qualifier U *1 U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07	Analyzed 11/09/21 16:19 Analyzed 11/05/21 16:22 11/05/21 16:22	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Organics (DR Result <50.0	O) (GC) Qualifier U RO) (GC) Qualifier U *1 U	RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	Analyzed 11/09/21 16:19 Analyzed 11/05/21 16:22 11/05/21 16:22	Dil Fac Dil Fac 1 Dil Fac 1 1 Dil Fac 1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

oject/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Client Sample ID: BH03
Date Collected: 11/02/21 10:30

Lab Sample ID: 890-1519-4

Matrix: Solid

Sample Depth: 1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	297		5.05	mg/Kg			11/09/21 09:50	1

Client Sample ID: BH03 Lab Sample ID: 890-1519-5

Date Collected: 11/02/21 10:40 Matrix: Solid

Date Received: 11/02/21 14:53

Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 12:36	
Toluene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 12:36	
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 12:36	
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/05/21 16:41	11/06/21 12:36	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 12:36	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/05/21 16:41	11/06/21 12:36	•
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	113		70 - 130			11/05/21 16:41	11/06/21 12:36	1
1,4-Difluorobenzene (Surr)	96		70 - 130			11/05/21 16:41	11/06/21 12:36	1
Method: Total BTEX - Total BTEX	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 16:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 16:44	1
Oll B (0 000 000)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 16:44	1
Oil Range Organics (Over C28-C36)								
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Surrogate		Qualifier				Prepared 11/04/21 13:07	Analyzed 11/05/21 16:44	Dil Fac
Surrogate 1-Chlorooctane	%Recovery	Qualifier						
	%Recovery 92 101		70 - 130			11/04/21 13:07	11/05/21 16:44	
Surrogate 1-Chlorooctane o-Terphenyl	%Recovery 92 101 omatography -		70 - 130	Unit	D	11/04/21 13:07	11/05/21 16:44	

Released to Imaging: 2/2/2022 2:04:44 PM

Lab Sample ID: 890-1519-6

Client Sample Results

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH04

Date Collected: 11/02/21 10:45 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 12:57	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 12:57	•
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 12:57	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 12:57	
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 12:57	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 12:57	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130			11/05/21 16:41	11/06/21 12:57	
1,4-Difluorobenzene (Surr)	101		70 - 130			11/05/21 16:41	11/06/21 12:57	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/08/21 17:11	-
Method: 8015 NM - Diesel Rang								
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
_		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/09/21 16:19	
Analyte Total TPH		Qualifier U			<u>D</u>	Prepared		
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result <49.9	Qualifier U RO) (GC)	49.9	mg/Kg	=		11/09/21 16:19	
Analyte Total TPH	Result <49.9	Qualifier U RO) (GC) Qualifier			<u>D</u>	Prepared 11/04/21 13:07		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U *1	49.9 RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 11/04/21 13:07	11/09/21 16:19 Analyzed 11/05/21 17:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	Result <49.9 ge Organics (Dige Result	Qualifier U RO) (GC) Qualifier U *1	49.9	mg/Kg	=	Prepared	11/09/21 16:19 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U *1	49.9 RL 49.9	mg/Kg Unit mg/Kg	=	Prepared 11/04/21 13:07	11/09/21 16:19 Analyzed 11/05/21 17:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/04/21 13:07 11/04/21 13:07	11/09/21 16:19 Analyzed 11/05/21 17:06 11/05/21 17:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	Analyzed 11/05/21 17:06 11/05/21 17:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U RO) (GC) Qualifier U *1 U	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	Analyzed 11/05/21 17:06 11/05/21 17:06 11/05/21 17:06 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 17:06 11/05/21 17:06 11/05/21 17:06 Analyzed 11/05/21 17:06	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U *1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg	=	Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 17:06 11/05/21 17:06 11/05/21 17:06 Analyzed 11/05/21 17:06	Dil Fac

Client Sample ID: BH04

Date Collected: 11/02/21 10:57 Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		11/05/21 16:41	11/06/21 13:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	134	S1+	70 - 130			11/05/21 16:41	11/06/21 13:17	1

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1519-7

Lab Sample ID: 890-1519-7

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1

Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Client Sample ID: BH04

Date Collected: 11/02/21 10:57 Date Received: 11/02/21 14:53

Sample Depth: 4

Method: 8021B - Volatile O	rganic Compou	nds (GC)	(Continued)
Michiga: OUL 1B Volume C	i gaino compou	1145 (55)	(Goillinaca)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104	70 - 130	11/05/21 16:41	11/06/21 13:17	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			11/08/21 17:11	1

ı					
ı	Method: 8015 NM - Γ	ligeal Range (Irganice	(DRO) (G	C

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	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 *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 17:49	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 17:49	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130	11/04/21 13:07	11/05/21 17:49	1
o-Terphenyl	115		70 - 130	11/04/21 13:07	11/05/21 17:49	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
l	Chloride	36.1		4.95	mg/Kg			11/09/21 10:27	1

Client Sample ID: BH05 Lab Sample ID: 890-1519-8 **Matrix: Solid**

Date Collected: 11/02/21 11:13 Date Received: 11/02/21 14:53

Sample Depth: 1

Method: 8021B - Volatile Organic Compounds (GC)

		()						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
Toluene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 13:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130			11/05/21 16:41	11/06/21 13:38	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/05/21 16:41	11/06/21 13:38	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00402	U	0.00402	ma/Ka			11/08/21 17:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1

Lab Sample ID: 890-1519-8

Client Sample Results

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH05

Date Collected: 11/02/21 11:13 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:09	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:09	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			11/04/21 13:07	11/05/21 18:09	1
o-Terphenyl	110		70 - 130			11/04/21 13:07	11/05/21 18:09	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH05

Date Collected: 11/02/21 11:23

Lab Sample ID: 890-1519-9

Matrix: Solid

Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
Toluene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		11/05/21 16:41	11/06/21 13:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			11/05/21 16:41	11/06/21 13:58	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/05/21 16:41	11/06/21 13:58	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:31	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:31	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 18:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130			11/04/21 13:07	11/05/21 18:31	1
			70 - 130			11/04/21 13:07	11/05/21 18:31	

Eurofins Xenco, Carlsbad

2

_

6

8

10

12

13

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client: WSP USA Inc.

Job ID: 890-1519-1

SDG: Eddy County

Lab Sample ID: 890-1519-9

Matrix: Solid

Client Sample ID: BH05

Date Collected: 11/02/21 11:23 Date Received: 11/02/21 14:53

Sample Depth: 4

I	Method: 300.0 - Anions, Ion Chromatography - Soluble									
Α	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
C	Chloride	29.4		4.95	mg/Kg			11/09/21 10:42	1	

Client Sample ID: BH06 Lab Sample ID: 890-1519-10 **Matrix: Solid**

Date Collected: 11/02/21 11:40

Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 14:18	
Toluene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 14:18	
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 14:18	
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 14:18	
o-Xylene	<0.00201	U	0.00201	mg/Kg		11/05/21 16:41	11/06/21 14:18	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		11/05/21 16:41	11/06/21 14:18	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130			11/05/21 16:41	11/06/21 14:18	
1,4-Difluorobenzene (Surr)	98		70 - 130			11/05/21 16:41	11/06/21 14:18	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range Analyte	•							
· · · · · · · · · · · · · · · · · · ·	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	<49.9		49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 11/09/21 16:19	
Total TPH	<49.9	U			<u> </u>	Prepared		
Total TPH Method: 8015B NM - Diesel Ranç	<49.9	U			D	Prepared Prepared		Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	<49.9	RO) (GC) Qualifier	49.9	mg/Kg			11/09/21 16:19	1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<49.9 ge Organics (D Result	RO) (GC) Qualifier U*1	49.9	mg/Kg		Prepared	11/09/21 16:19 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<pre>ce Organics (D) Result </pre>	U RO) (GC) Qualifier U*1	49.9 RL 49.9	mg/Kg Unit mg/Kg		Prepared 11/04/21 13:07	11/09/21 16:19 Analyzed 11/05/21 18:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07	11/09/21 16:19 Analyzed 11/05/21 18:52 11/05/21 18:52	Dil Fac 1
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9 49.9	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	Analyzed 11/05/21 18:52 11/05/21 18:52 11/05/21 18:52	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery	U RO) (GC) Qualifier U*1 U	49.9 RL 49.9 49.9 49.9 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	Analyzed 11/05/21 18:52 11/05/21 18:52 11/05/21 18:52 Analyzed	Dil Fac
Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 99 112	U RO) (GC) Qualifier U *1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 18:52 11/05/21 18:52 11/05/21 18:52 Analyzed 11/05/21 18:52	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	49.9 ge Organics (D) Result <49.9 <49.9 <49.9 %Recovery 99 112 omatography -	U RO) (GC) Qualifier U *1 U Qualifier	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 18:52 11/05/21 18:52 11/05/21 18:52 Analyzed 11/05/21 18:52	Dil Fac

Lab Sample ID: 890-1519-11

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Client Sample ID: BH06

Date Collected: 11/02/21 11:47 Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 15:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130			11/05/21 16:41	11/06/21 15:41	1
1,4-Difluorobenzene (Surr)	101		70 - 130			11/05/21 16:41	11/06/21 15:41	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/08/21 17:11	1
Analyte Total TPH	<50.0	Qualifier U	RL 50.0	Unit mg/Kg	D	Prepared	Analyzed 11/09/21 16:19	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte								
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
5 5				Mg/Kg	<u>D</u>	Prepared 11/04/21 13:07	Analyzed 11/05/21 19:14	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over		U *1			<u>D</u>			1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U*1	50.0	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07	11/05/21 19:14	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	U*1	50.0	mg/Kg	<u>D</u>	11/04/21 13:07	11/05/21 19:14	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0 <50.0 %Recovery	U*1 U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	11/05/21 19:14 11/05/21 19:14 11/05/21 19:14 Analyzed	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U*1 U	50.0 50.0 50.0	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	11/05/21 19:14 11/05/21 19:14 11/05/21 19:14	1 1 1 <i>Dil Fac</i>
C10-C28) OII Range Organics (Over C28-C36) Surrogate	<50.0 <50.0 <50.0 %Recovery	U*1 U	50.0 50.0 50.0 <i>Limits</i>	mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	11/05/21 19:14 11/05/21 19:14 11/05/21 19:14 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 <50.0 %Recovery 93 103 omatography -	U*1 U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	11/05/21 19:14 11/05/21 19:14 11/05/21 19:14 Analyzed 11/05/21 19:14	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 <50.0 %Recovery 93 103 omatography -	U *1 U Qualifier	50.0 50.0 50.0 Limits 70 - 130	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	11/05/21 19:14 11/05/21 19:14 11/05/21 19:14 Analyzed 11/05/21 19:14	

Client Sample ID: BH07 Lab Sample ID: 890-1519-12

Date Collected: 11/02/21 12:10 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/05/21 16:41	11/06/21 16:02	1

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 SDG: Eddy County

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client Sample ID: BH07 Lab Sample ID: 890-1519-12 Date Collected: 11/02/21 12:10 Matrix: Solid

Date Received: 11/02/21 14:53 Sample Depth: 1

Method: 8021B - Volatile Organic Compound	s (GC) (Continued)
---	--------------------

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97	70 - 130	11/05/21 16:41	11/06/21 16:02	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/08/21 17:11	1

Method: 801	5 NM - Diesel	Range Organics	e (DRO) (GC)

Analyte	Result Q	lualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	,	49.8	mg/Kg			11/09/21 16:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/04/21 13:07	11/05/21 19:35	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/04/21 13:07	11/05/21 19:35	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/04/21 13:07	11/05/21 19:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/04/21 13:07	11/05/21 19:35	1
o-Terphenyl	106		70 - 130	11/04/21 13:07	11/05/21 19:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	84.5	4.99	mg/Kg			11/09/21 11:04	1

Client Sample ID: BH07 Lab Sample ID: 890-1519-13 **Matrix: Solid**

Date Collected: 11/02/21 12:20 Date Received: 11/02/21 14:53

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

		/						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/05/21 16:41	11/06/21 16:22	1
1,4-Difluorobenzene (Surr)	97		70 - 130			11/05/21 16:41	11/06/21 16:22	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			11/08/21 17:11	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			11/09/21 16:19	1

Lab Sample ID: 890-1519-13

Client Sample Results

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH07

Date Collected: 11/02/21 12:20 Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 19:56	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 19:56	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 19:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			11/04/21 13:07	11/05/21 19:56	1
o-Terphenyl	110		70 - 130			11/04/21 13:07	11/05/21 19:56	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Client Sample ID: BH08

Lab Sample ID: 890-1519-14

Date Collected: 11/02/21 12:32

Matrix: Solid

Date Received: 11/02/21 14:53

Occupie Dentile 4

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
m-Xylene & p-Xylene	< 0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/05/21 16:41	11/06/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			11/05/21 16:41	11/06/21 16:43	1
1,4-Difluorobenzene (Surr)	106		70 - 130			11/05/21 16:41	11/06/21 16:43	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/04/21 13:07	11/05/21 20:17	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 20:17	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/04/21 13:07	11/05/21 20:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			11/04/21 13:07	11/05/21 20:17	1
o-Terphenyl	101		70 - 130			11/04/21 13:07	11/05/21 20:17	1

Eurofins Xenco, Carlsbad

1

2

4

0

8

10

12

13

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH08

Date Collected: 11/02/21 12:32 Date Received: 11/02/21 14:53

Lab Sample ID: 890-1519-14 Matrix: Solid

Sample Depth: 1

Method: 300.0 - Anions, Ion Chror	matography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.8	4.95	mg/Kg			11/10/21 11:58	1

Client Sample ID: BH08 Lab Sample ID: 890-1519-15 **Matrix: Solid**

Date Collected: 11/02/21 12:43 Date Received: 11/02/21 14:53

Sample Depth: 4

o-Terphenyl

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
Toluene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 17:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			11/05/21 16:41	11/06/21 17:03	1
1,4-Difluorobenzene (Surr)	100		70 - 130			11/05/21 16:41	11/06/21 17:03	1
- Method: 8015 NM - Diesel Range	•							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			11/09/21 16:19	1
- Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
		, (00)						
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10	• •	Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 11/04/21 13:07	Analyzed 11/05/21 20:38	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U *1			<u>D</u>			Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U *1	49.9	mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07	11/05/21 20:38 11/05/21 20:38	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U *1	49.9	mg/Kg	<u>D</u>	11/04/21 13:07	11/05/21 20:38	1
Gasoline Range Organics (GRO)-C6-C10	Result <49.9 <49.9	Qualifier U *1 U	49.9	mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07	11/05/21 20:38 11/05/21 20:38	1

70 - 130

RL

5.04

Unit

mg/Kg

107

17.7

Result Qualifier

Eurofins Xenco, Carlsbad

11/05/21 20:38

Analyzed

11/10/21 12:05

11/04/21 13:07

Prepared

D

Dil Fac

Method: 300.0 - Anions, Ion Chromatography - Soluble

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Lab Sample ID: 890-1519-16

Client Sample ID: BH09

Date Collected: 11/02/21 12:53 Date Received: 11/02/21 14:53

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 17:24	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/05/21 16:41	11/06/21 17:24	1
1,4-Difluorobenzene (Surr)	104		70 - 130			11/05/21 16:41	11/06/21 17:24	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/08/21 17:11	1
Method: 8015 NM - Diesel Range Analyte Total TPH	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
TOTAL LED			40.0	m = /1/ =			11/00/21 16:10	
	<49.8	U	49.8	mg/Kg			11/09/21 16:19	1
Method: 8015B NM - Diesel Ran			49.8	mg/Kg			11/09/21 16:19	1
- -	ge Organics (D		49.8 RL	mg/Kg Unit	D	Prepared	11/09/21 16:19 Analyzed	1 Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	RO) (GC) Qualifier			<u>D</u> _	Prepared 11/04/21 13:07		
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier U *1	RL	Unit	<u>D</u>		Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <49.8	RO) (GC) Qualifier U*1	RL 49.8	Unit mg/Kg	<u>D</u>	11/04/21 13:07	Analyzed 11/05/21 20:59	Dil Fac
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <49.8	RO) (GC) Qualifier U *1 U	RL 49.8	Unit mg/Kg mg/Kg	<u>D</u>	11/04/21 13:07	Analyzed 11/05/21 20:59 11/05/21 20:59	Dil Fac 1
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D Result <49.8 <49.8	RO) (GC) Qualifier U *1 U	RL 49.8 49.8 49.8	Unit mg/Kg mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07	Analyzed 11/05/21 20:59 11/05/21 20:59 11/05/21 20:59	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U *1 U	RL 49.8 49.8 49.8 <i>Limits</i>	Unit mg/Kg mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared	Analyzed 11/05/21 20:59 11/05/21 20:59 11/05/21 20:59 Analyzed	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U*1 U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg mg/Kg	<u> </u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 20:59 11/05/21 20:59 11/05/21 20:59 Analyzed 11/05/21 20:59	Dil Fac
Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D Result <49.8 <49.8 <49.8	RO) (GC) Qualifier U*1 U Qualifier	RL 49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	11/04/21 13:07 11/04/21 13:07 11/04/21 13:07 Prepared 11/04/21 13:07	Analyzed 11/05/21 20:59 11/05/21 20:59 11/05/21 20:59 Analyzed 11/05/21 20:59	Dil Face 1 1 1 Dil Face

Client Sample ID: BH09

Date Collected: 11/02/21 13:03 Date Received: 11/02/21 14:53

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 16:41	11/06/21 17:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			11/05/21 16:41	11/06/21 17:44	

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1519-17

Client Sample Results

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH09

Lab Sample ID: 890-1519-17

Date Collected: 11/02/21 13:03 Date Received: 11/02/21 14:53 Matrix: Solid

11/10/21 12:20

Sample Depth: 4

Chloride

		Limits			Prepared	Analyzed	Dil Fac
101		70 - 130			11/05/21 16:41	11/06/21 17:44	1
X Calculation							
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00398	U	0.00398	mg/Kg			11/08/21 17:11	1
e Organics (DR	O) (GC)						
		RL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0	mg/Kg			11/09/21 16:19	
Result	Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
ge Organics (D	RO) (GC)						
<50.0	U	50.0	mg/Kg		11/05/21 13:34	11/07/21 00:06	1
<50.0	U *1	50.0	ma/Ka		11/05/21 13:34	11/07/21 00:06	
00.0		55.5	99				
<50.0	U	50.0	mg/Kg		11/05/21 13:34	11/07/21 00:06	•
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
99		70 - 130			11/05/21 13:34	11/07/21 00:06	
115		70 - 130			11/05/21 13:34	11/07/21 00:06	
	Result <0.00398	Result Qualifier	Result Qualifier RL	Result Qualifier RL Unit mg/Kg	Result Qualifier RL Unit D mg/Kg	Result Qualifier RL Unit D Prepared	Result Qualifier RL Unit D Prepared Analyzed 11/08/21 17:11

4.99

mg/Kg

17.3

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Camada ID	Olicari Ocasale ID	(70-130)	(70-130)	
Lab Sample ID 890-1519-1	BH01	114	101	
			101	
890-1519-1 MS 890-1519-1 MSD	BH01 BH01	110 113	96	
890-1519-1 MSD				
	BH02 BH02	124	100	
890-1519-3		118	99	
890-1519-4	BH03	126	99	
890-1519-5	BH03	113	96	
890-1519-6	BH04	119	101	
890-1519-7	BH04	134 S1+	104	
890-1519-8	BH05	126	97	
890-1519-9	BH05	107	97	
890-1519-10	BH06	112	98	
890-1519-11	BH06	121	101	
890-1519-12	BH07	116	97	
890-1519-13	BH07	111	97	
890-1519-14	BH08	122	106	
890-1519-15	BH08	113	100	
890-1519-16	BH09	111	104	
890-1519-17	BH09	112	101	
LCS 880-11477/1-A	Lab Control Sample	105	102	
LCSD 880-11477/2-A	Lab Control Sample Dup	106	97	
MB 880-11476/5-A	Method Blank	128	97	
MB 880-11477/5-A	Method Blank	112	96	
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)	
820-2486-A-1-C MS	Matrix Spike	102	104	
820-2486-A-1-D MSD	Matrix Spike Duplicate	98	99	
890-1519-1	BH01	97	107	
890-1519-2	BH02	94	99	
890-1519-3	BH02	93	101	
890-1519-4	BH03	100	111	
890-1519-5	BH03	92	101	
890-1519-6	BH04	100	110	
890-1519-7	BH04	100	115	
890-1519-8	BH05	96	110	
890-1519-9	BH05	112	129	
890-1519-10	BH06	99	112	
890-1519-11	BH06	93	103	
890-1519-12	BH07	93	106	
890-1519-13	BH07	97	110	
890-1519-14	BH08	92	101	

Surrogate Summary

Job ID: 890-1519-1 Client: WSP USA Inc. Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1519-15	BH08	97	107	
890-1519-16	BH09	97	112	
890-1519-17	BH09	99	115	
890-1520-A-1-G MS	Matrix Spike	72	62 S1-	
890-1520-A-1-H MSD	Matrix Spike Duplicate	66 S1-	60 S1-	
LCS 880-11464/2-A	Lab Control Sample	81	86	
LCS 880-11589/2-A	Lab Control Sample	80	83	
LCSD 880-11451/3-A	Lab Control Sample Dup	83	89	
LCSD 880-11464/3-A	Lab Control Sample Dup	87	100	
LCSD 880-11589/3-A	Lab Control Sample Dup	74	76	
MB 880-11451/1-A	Method Blank	101	118	
MB 880-11464/1-A	Method Blank	93	103	
MB 880-11589/1-A	Method Blank	108	130	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client: WSP USA Inc.

Job ID: 890-1519-1

SDG: Eddy County

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11476/5-A

Lab Sample ID: MB 880-11477/5-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 11515

Analysis Batch: 11515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11476

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 23:59	1

мв мв

MB MB

Surrogate	%Recovery	Qualifier	Limits	
4-Bromofluorobenzene (Surr)	128		70 - 130	
1,4-Difluorobenzene (Surr)	97		70 - 130	

Prepared Dil Fac Analyzed 11/05/21 09:00 11/05/21 23:59 11/05/21 09:00 11/05/21 23:59

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 11477

	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 10:53	•
	Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 10:53	•
	Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 10:53	
	m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 10:53	•
	o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 16:41	11/06/21 10:53	•
	Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 16:41	11/06/21 10:53	
ı									

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130	11/05/21 16:41	11/06/21 10:53	1
1,4-Difluorobenzene (Surr)	96		70 - 130	11/05/21 16:41	11/06/21 10:53	1

Lab Sample ID: LCS 880-11477/1-A

Matrix: Solid Analysis Batch: 11515 **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Prep Batch: 11477

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08670		mg/Kg		87	70 - 130	
Toluene	0.100	0.08238		mg/Kg		82	70 - 130	
Ethylbenzene	0.100	0.08292		mg/Kg		83	70 - 130	
m-Xylene & p-Xylene	0.200	0.1700		mg/Kg		85	70 - 130	
o-Xylene	0.100	0.08796		mg/Kg		88	70 - 130	

LCS LCS

Surrogate	%Recovery Qualified	r Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

Lab Sample ID: LCSD 880-11477/2-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Lab	Control Sample Dup
	Dren Times Tetal/NIA

Prep Type: Total/NA Prep Batch: 11477

	Бріке	LCSD LCSD				%Rec.		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08646	mg/Kg		86	70 - 130	0	35	

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1 SDG: Eddy County

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

Lab Sample ID: LCSD 880-11477/2-A **Matrix: Solid**

Analysis Batch: 11515

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 11477

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.08498		mg/Kg		85	70 - 130	3	35
Ethylbenzene	0.100	0.08572		mg/Kg		86	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1770		mg/Kg		89	70 - 130	4	35
o-Xylene	0.100	0.08966		mg/Kg		90	70 - 130	2	35

LCSD LCSD

Surrogate	%Recovery C	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1519-1 MS

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: BH01

Prep Type: Total/NA

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 4-Bromofluorobenzene (Surr) 110 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 890-1519-1 MSD

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: BH01 Prep Type: Total/NA

MSD MSD Qualifier Surrogate %Recovery Limits 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 96 70 - 130

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

Lab Sample ID: MB 880-11451/1-A

Matrix: Solid

Analysis Batch: 11507

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 11451

MB MB Result Qualifier Dil Fac Analyte RL Unit D Prepared Analyzed <50.0 U 50.0 11/04/21 11:27 11/05/21 21:41 Gasoline Range Organics mg/Kg (GRO)-C6-C10 11/05/21 21:41 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 11/04/21 11:27 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 11/04/21 11:27 11/05/21 21:41

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	11/04/21 11:27	11/05/21 21:41	1
o-Terphenyl	118		70 - 130	11/04/21 11:27	7 11/05/21 21:41	1

Lab Sample ID: LCSD 880-11451/3-A

Matrix: Solid

Analysis Batch: 11507

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11451

Spike LCSD LCSD %Rec. **RPD** Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD 1000 72 20 Gasoline Range Organics 723.4 70 - 13015 mg/Kg

(GRO)-C6-C10

Eurofins Xenco, Carlsbad

Page 22 of 47

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client: WSP USA Inc.

Job ID: 890-1519-1 SDG: Eddy County

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

Lab Sample ID: LCSD 880-11451/3-A **Matrix: Solid Analysis Batch: 11507**

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

Prep Batch: 11451

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D 1000 893.5 89 70 - 130 2 20 Diesel Range Organics (Over mg/Kg

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 70 - 130 1-Chlorooctane 83 o-Terphenyl 89 70 - 130

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Solid Analysis Batch: 11507

Lab Sample ID: MB 880-11464/1-A

Prep Batch: 11464

	IND	1110						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/04/21 13:07	11/05/21 11:16	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/04/21 13:07	11/05/21 11:16	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/04/21 13:07	11/05/21 11:16	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93		70 - 130	11/04/21 13:07	11/05/21 11:16	1
o-Terphenyl	103		70 - 130	11/04/21 13:07	11/05/21 11:16	1

Lab Sample ID: LCS 880-11464/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Analysis Batch: 11507 Prep Type: Total/NA Prep Batch: 11464

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1074		mg/Kg		107	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	873.4		mg/Kg		87	70 - 130	
C10-C28)								

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 81 70 - 130 86 70 - 130

Lab Sample ID: LCSD 880-11464/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

1000

Analysis Batch: 11507

Gasoline Range Organics

Diesel Range Organics (Over

Prep Batch: 11464 LCSD LCSD %Rec. RPD Spike Limits Added Result Qualifier Unit %Rec RPD Limit 1000 854.1 *1 70 - 130 20 mg/Kg 85 23

mg/Kg

935.5

C10-C28)

(GRO)-C6-C10

Analyte

o-Terphenyl

	LUSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	100		70 - 130

....

Eurofins Xenco, Carlsbad

70 - 130

20

Lab Sample ID: 890-1520-A-1-G MS

Lab Sample ID: 890-1520-A-1-H MSD

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11464

l		Sample	Sample	Spike	MS	MS				%Rec.	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
	Gasoline Range Organics	<49.9	U *1	997	973.9		mg/Kg		98	70 - 130	
	(GRO)-C6-C10										
	Diesel Range Organics (Over	<49.9	U F1	997	718.2		mg/Kg		72	70 - 130	
ı	C10-C28)										

Matrix: Solid

Analysis Batch: 11507

Matrix: Solid

Analysis Batch: 11507

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	72		70 - 130
o-Terphenyl	62	S1-	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11464

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U *1	1000	924.7		mg/Kg		92	70 - 130	5	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U F1	1000	692.8	F1	mg/Kg		69	70 - 130	4	20
C10-C28)											

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	60	S1-	70 - 130

Lab Sample ID: MB 880-11589/1-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11624 Prep Batch: 11589

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		11/05/21 13:34	11/06/21 21:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		11/05/21 13:34	11/06/21 21:43	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/05/21 13:34	11/06/21 21:43	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130	11/05/21 13:34	11/06/21 21:43	1
o-Tembenyl	130		70 130	11/05/21 13:34	11/06/21 21:43	1

Lab Sample ID: LCS 880-11589/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA Analysis Batch: 11624 Prep Batch: 11589

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	933.7		mg/Kg		93	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	889.8		mg/Kg		89	70 - 130	
C10-C28)								

Project/Site: Sterling 4H 6HCTB - 31403152.008

Client: WSP USA Inc.

Job ID: 890-1519-1

SDG: Eddy County

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

Lab Sample ID: LCS 880-11589/2-A

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11589

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 80 70 - 130 o-Terphenyl 83 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11589

Lab Sample ID: LCSD 880-11589/3-A **Matrix: Solid**

Lab Sample ID: 820-2486-A-1-C MS

Analysis Batch: 11624

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	877.0		mg/Kg		88	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	709.3	*1	mg/Kg		71	70 - 130	23	20
C10-C28)									

LCSD LCSD

<49.9 U *1

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	74		70 - 130
o-Terphenyl	76		70 - 130

Client Sample ID: Matrix Spike

70 - 130

Prep Type: Total/NA

Prep Batch: 11589

Sample Sample Spike MS MS %Rec. Result Qualifier Analyte Result Qualifier Added Unit %Rec Limits Gasoline Range Organics <49.9 U 997 1216 mg/Kg 122 70 - 130 (GRO)-C6-C10

1047

mg/Kg

997

Cailes

Diesel Range Organics (Over C10-C28)

Matrix: Solid

Analysis Batch: 11624

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 102 o-Terphenyl 104 70 - 130

Lab Sample ID: 820-2486-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 11624

Prep Type: Total/NA

104

Prep Batch: 11589

ı		Sample	Sample	Spike	MISD	MOD				%Rec.		KPD	
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
	Gasoline Range Organics	<49.9	U	1000	1283		mg/Kg		128	70 - 130	5	20	
	(GRO)-C6-C10												
	Diesel Range Organics (Over	<49.9	U *1	1000	1014		mg/Kg		100	70 - 130	3	20	

C10-C28)

MSD MSD

Camania Camania

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	98	70 - 130
o-Terphenyl	99	70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: BH02

Client Sample ID: BH02

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11463/1-A

Matrix: Solid

Analysis Batch: 11706

MB MB

Analyte Result Qualifier RLUnit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 11/09/21 02:23

Lab Sample ID: LCS 880-11463/2-A

Matrix: Solid

Analysis Batch: 11706

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 272.4 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-11463/3-A

Matrix: Solid

Analysis Batch: 11706

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 272.1 250 mg/Kg 109 90 - 110

Lab Sample ID: 890-1519-3 MS

Matrix: Solid

Analysis Batch: 11706

Sample Sample MS MS Spike %Rec. Result Qualifier Added Result Qualifier %Rec Analyte Unit D Limits Chloride 382 250 658.7 F1 90 - 110 mg/Kg

Lab Sample ID: 890-1519-3 MSD

Matrix: Solid

Analysis Batch: 11706

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 382 F1 Chloride 250 654.0 mg/Kg 109 90 - 110

Lab Sample ID: MB 880-11465/1-A

Matrix: Solid

Analysis Batch: 11709

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 11/10/21 08:39

Lab Sample ID: LCS 880-11465/2-A

Matrix: Solid

Analysis Batch: 11709

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 251.4 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-11465/3-A

Matrix: Solid

Analysis Batch: 11709

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 251.9 mg/Kg 101 90 - 110 20

Eurofins Xenco, Carlsbad

Released to Imaging: 2/2/2022 2:04:44 PM

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-7343-A-53-B MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble Analysis Batch: 11709

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

Chloride 6790 2500 9088 mg/Kg 92 90 - 110

Lab Sample ID: 880-7343-A-53-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 11709 Spike MSD MSD %Rec.

Sample Sample RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 6790 2500 9117 mg/Kg 93 90 - 110 0 20

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

GC VOA

Prep Batch: 11476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11476/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 11477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	5035	
890-1519-2	BH02	Total/NA	Solid	5035	
890-1519-3	BH02	Total/NA	Solid	5035	
890-1519-4	BH03	Total/NA	Solid	5035	
890-1519-5	BH03	Total/NA	Solid	5035	
890-1519-6	BH04	Total/NA	Solid	5035	
890-1519-7	BH04	Total/NA	Solid	5035	
890-1519-8	BH05	Total/NA	Solid	5035	
890-1519-9	BH05	Total/NA	Solid	5035	
890-1519-10	BH06	Total/NA	Solid	5035	
890-1519-11	BH06	Total/NA	Solid	5035	
890-1519-12	BH07	Total/NA	Solid	5035	
890-1519-13	BH07	Total/NA	Solid	5035	
890-1519-14	BH08	Total/NA	Solid	5035	
890-1519-15	BH08	Total/NA	Solid	5035	
890-1519-16	BH09	Total/NA	Solid	5035	
890-1519-17	BH09	Total/NA	Solid	5035	
MB 880-11477/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11477/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11477/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 11515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	8021B	11477
890-1519-2	BH02	Total/NA	Solid	8021B	11477
890-1519-3	BH02	Total/NA	Solid	8021B	11477
890-1519-4	BH03	Total/NA	Solid	8021B	11477
890-1519-5	BH03	Total/NA	Solid	8021B	11477
890-1519-6	BH04	Total/NA	Solid	8021B	11477
890-1519-7	BH04	Total/NA	Solid	8021B	11477
890-1519-8	BH05	Total/NA	Solid	8021B	11477
890-1519-9	BH05	Total/NA	Solid	8021B	11477
390-1519-10	BH06	Total/NA	Solid	8021B	11477
390-1519-11	BH06	Total/NA	Solid	8021B	11477
890-1519-12	BH07	Total/NA	Solid	8021B	11477
890-1519-13	BH07	Total/NA	Solid	8021B	11477
890-1519-14	BH08	Total/NA	Solid	8021B	11477
890-1519-15	BH08	Total/NA	Solid	8021B	11477
890-1519-16	BH09	Total/NA	Solid	8021B	11477
890-1519-17	BH09	Total/NA	Solid	8021B	11477
MB 880-11476/5-A	Method Blank	Total/NA	Solid	8021B	11476
MB 880-11477/5-A	Method Blank	Total/NA	Solid	8021B	11477
LCS 880-11477/1-A	Lab Control Sample	Total/NA	Solid	8021B	11477
LCSD 880-11477/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11477
890-1519-1 MS	BH01	Total/NA	Solid	8021B	
890-1519-1 MSD	BH01	Total/NA	Solid	8021B	

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

GC VOA

Analysis Batch: 11768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	Total BTEX	
890-1519-2	BH02	Total/NA	Solid	Total BTEX	
890-1519-3	BH02	Total/NA	Solid	Total BTEX	
890-1519-4	BH03	Total/NA	Solid	Total BTEX	
890-1519-5	BH03	Total/NA	Solid	Total BTEX	
890-1519-6	BH04	Total/NA	Solid	Total BTEX	
890-1519-7	BH04	Total/NA	Solid	Total BTEX	
890-1519-8	BH05	Total/NA	Solid	Total BTEX	
890-1519-9	BH05	Total/NA	Solid	Total BTEX	
890-1519-10	BH06	Total/NA	Solid	Total BTEX	
890-1519-11	BH06	Total/NA	Solid	Total BTEX	
890-1519-12	BH07	Total/NA	Solid	Total BTEX	
890-1519-13	BH07	Total/NA	Solid	Total BTEX	
890-1519-14	BH08	Total/NA	Solid	Total BTEX	
890-1519-15	BH08	Total/NA	Solid	Total BTEX	
890-1519-16	ВН09	Total/NA	Solid	Total BTEX	
890-1519-17	BH09	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11451/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCSD 880-11451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Prep Batch: 11464

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	8015NM Prep	
890-1519-2	BH02	Total/NA	Solid	8015NM Prep	
890-1519-3	BH02	Total/NA	Solid	8015NM Prep	
890-1519-4	BH03	Total/NA	Solid	8015NM Prep	
890-1519-5	BH03	Total/NA	Solid	8015NM Prep	
890-1519-6	BH04	Total/NA	Solid	8015NM Prep	
890-1519-7	BH04	Total/NA	Solid	8015NM Prep	
890-1519-8	BH05	Total/NA	Solid	8015NM Prep	
890-1519-9	BH05	Total/NA	Solid	8015NM Prep	
890-1519-10	BH06	Total/NA	Solid	8015NM Prep	
890-1519-11	BH06	Total/NA	Solid	8015NM Prep	
890-1519-12	BH07	Total/NA	Solid	8015NM Prep	
890-1519-13	BH07	Total/NA	Solid	8015NM Prep	
890-1519-14	BH08	Total/NA	Solid	8015NM Prep	
890-1519-15	BH08	Total/NA	Solid	8015NM Prep	
890-1519-16	BH09	Total/NA	Solid	8015NM Prep	
MB 880-11464/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11464/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11464/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1520-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1520-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Eurofins Xenco, Carlsbad

Released to Imaging: 2/2/2022 2:04:44 PM

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

GC Semi VOA

Analysis Batch: 11507

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	8015B NM	11464
890-1519-2	BH02	Total/NA	Solid	8015B NM	11464
890-1519-3	BH02	Total/NA	Solid	8015B NM	11464
890-1519-4	BH03	Total/NA	Solid	8015B NM	11464
890-1519-5	BH03	Total/NA	Solid	8015B NM	11464
890-1519-6	BH04	Total/NA	Solid	8015B NM	11464
890-1519-7	BH04	Total/NA	Solid	8015B NM	11464
890-1519-8	BH05	Total/NA	Solid	8015B NM	11464
890-1519-9	BH05	Total/NA	Solid	8015B NM	11464
890-1519-10	BH06	Total/NA	Solid	8015B NM	11464
890-1519-11	BH06	Total/NA	Solid	8015B NM	11464
890-1519-12	BH07	Total/NA	Solid	8015B NM	11464
890-1519-13	BH07	Total/NA	Solid	8015B NM	11464
890-1519-14	BH08	Total/NA	Solid	8015B NM	11464
890-1519-15	BH08	Total/NA	Solid	8015B NM	11464
890-1519-16	BH09	Total/NA	Solid	8015B NM	11464
MB 880-11451/1-A	Method Blank	Total/NA	Solid	8015B NM	11451
MB 880-11464/1-A	Method Blank	Total/NA	Solid	8015B NM	11464
LCS 880-11464/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11464
LCSD 880-11451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11451
LCSD 880-11464/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11464
890-1520-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	11464
890-1520-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11464

Prep Batch: 11589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-17	BH09	Total/NA	Solid	8015NM Prep	·
MB 880-11589/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11589/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
820-2486-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
820-2486-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-17	BH09	Total/NA	Solid	8015B NM	11589
MB 880-11589/1-A	Method Blank	Total/NA	Solid	8015B NM	11589
LCS 880-11589/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11589
LCSD 880-11589/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11589
820-2486-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	11589
820-2486-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11589

Analysis Batch: 11856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Total/NA	Solid	8015 NM	
890-1519-2	BH02	Total/NA	Solid	8015 NM	
890-1519-3	BH02	Total/NA	Solid	8015 NM	
890-1519-4	BH03	Total/NA	Solid	8015 NM	
890-1519-5	BH03	Total/NA	Solid	8015 NM	
890-1519-6	BH04	Total/NA	Solid	8015 NM	
890-1519-7	BH04	Total/NA	Solid	8015 NM	

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

GC Semi VOA (Continued)

Analysis Batch: 11856 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-8	BH05	Total/NA	Solid	8015 NM	
890-1519-9	BH05	Total/NA	Solid	8015 NM	
890-1519-10	BH06	Total/NA	Solid	8015 NM	
890-1519-11	BH06	Total/NA	Solid	8015 NM	
890-1519-12	BH07	Total/NA	Solid	8015 NM	
890-1519-13	ВН07	Total/NA	Solid	8015 NM	
890-1519-14	BH08	Total/NA	Solid	8015 NM	
890-1519-15	BH08	Total/NA	Solid	8015 NM	
890-1519-16	ВН09	Total/NA	Solid	8015 NM	
890-1519-17	BH09	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Soluble	Solid	DI Leach	_
890-1519-2	BH02	Soluble	Solid	DI Leach	
890-1519-3	BH02	Soluble	Solid	DI Leach	
890-1519-4	BH03	Soluble	Solid	DI Leach	
890-1519-5	BH03	Soluble	Solid	DI Leach	
890-1519-6	BH04	Soluble	Solid	DI Leach	
890-1519-7	BH04	Soluble	Solid	DI Leach	
890-1519-8	BH05	Soluble	Solid	DI Leach	
890-1519-9	BH05	Soluble	Solid	DI Leach	
890-1519-10	BH06	Soluble	Solid	DI Leach	
890-1519-11	BH06	Soluble	Solid	DI Leach	
890-1519-12	BH07	Soluble	Solid	DI Leach	
MB 880-11463/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11463/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11463/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1519-3 MS	BH02	Soluble	Solid	DI Leach	
890-1519-3 MSD	BH02	Soluble	Solid	DI Leach	

Leach Batch: 11465

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-13	BH07	Soluble	Solid	DI Leach	
890-1519-14	BH08	Soluble	Solid	DI Leach	
890-1519-15	BH08	Soluble	Solid	DI Leach	
890-1519-16	BH09	Soluble	Solid	DI Leach	
890-1519-17	BH09	Soluble	Solid	DI Leach	
MB 880-11465/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11465/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11465/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-7343-A-53-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-7343-A-53-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-1	BH01	Soluble	Solid	300.0	11463
890-1519-2	BH02	Soluble	Solid	300.0	11463
890-1519-3	BH02	Soluble	Solid	300.0	11463

Eurofins Xenco, Carlsbad

Page 31 of 47

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

HPLC/IC (Continued)

Analysis Batch: 11706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-4	BH03	Soluble	Solid	300.0	11463
890-1519-5	BH03	Soluble	Solid	300.0	11463
890-1519-6	BH04	Soluble	Solid	300.0	11463
890-1519-7	BH04	Soluble	Solid	300.0	11463
890-1519-8	BH05	Soluble	Solid	300.0	11463
890-1519-9	BH05	Soluble	Solid	300.0	11463
890-1519-10	BH06	Soluble	Solid	300.0	11463
890-1519-11	BH06	Soluble	Solid	300.0	11463
890-1519-12	BH07	Soluble	Solid	300.0	11463
MB 880-11463/1-A	Method Blank	Soluble	Solid	300.0	11463
LCS 880-11463/2-A	Lab Control Sample	Soluble	Solid	300.0	11463
LCSD 880-11463/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11463
890-1519-3 MS	BH02	Soluble	Solid	300.0	11463
890-1519-3 MSD	BH02	Soluble	Solid	300.0	11463

Analysis Batch: 11709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1519-13	BH07	Soluble	Solid	300.0	11465
890-1519-14	BH08	Soluble	Solid	300.0	11465
890-1519-15	BH08	Soluble	Solid	300.0	11465
890-1519-16	BH09	Soluble	Solid	300.0	11465
890-1519-17	BH09	Soluble	Solid	300.0	11465
MB 880-11465/1-A	Method Blank	Soluble	Solid	300.0	11465
LCS 880-11465/2-A	Lab Control Sample	Soluble	Solid	300.0	11465
LCSD 880-11465/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11465
880-7343-A-53-B MS	Matrix Spike	Soluble	Solid	300.0	11465
880-7343-A-53-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11465

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1 SDG: Eddy County

Client Sample ID: BH01 Date Received: 11/02/21 14:53

Date Collected: 11/02/21 08:55

Lab Sample ID: 890-1519-1

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			5.04 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 11:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 15:17	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		20			11706	11/09/21 09:13	CH	XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1519-2

Date Collected: 11/02/21 09:40

Date Received: 11/02/21 14:53

Matrix: Solid

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.02 g 5 mL 11477 11/05/21 16:41 MR XEN MID Total/NA 8021B 5 mL 11/06/21 11:35 XEN MID Analysis 1 5 mL 11515 KL Total/NA Total BTEX 11768 XEN MID Analysis 1 11/08/21 17:11 A.I Total/NA Analysis 8015 NM 11856 11/09/21 16:19 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.00 g 11464 11/04/21 13:07 DM 10 mL Total/NA Analysis 8015B NM 11507 11/05/21 15:39 AJ XEN MID Soluble SC XEN MID Leach DI Leach 5.02 g 50 mL 11463 11/04/21 13:06 Soluble Analysis 300.0 1 11706 11/09/21 09:20 CH XEN MID

Client Sample ID: BH02 Lab Sample ID: 890-1519-3 Date Collected: 11/02/21 09:52

Date Received: 11/02/21 14:53

	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	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 11:55	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 16:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 09:28	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1519-4 Date Collected: 11/02/21 10:30 Matrix: Solid

Date Received: 11/02/21 14:53

	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	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 12:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 33 of 47

Released to Imaging: 2/2/2022 2:04:44 PM

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1 SDG: Eddy County

Lab Sample ID: 890-1519-4

Matrix: Solid

Client Sample ID: BH03
Date Collected: 11/02/21 10:30
Date Received: 11/02/21 14:53

	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			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 16:22	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 09:50	CH	XEN MID

Client Sample ID: BH03 Lab Sample ID: 890-1519-5

Date Collected: 11/02/21 10:40

Matrix: Solid

Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 12:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 16:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 09:58	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1519-6

Date Collected: 11/02/21 10:45 Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 12:57	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 17:06	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:20	CH	XEN MID

Client Sample ID: BH04 Lab Sample ID: 890-1519-7

Date Collected: 11/02/21 10:57 Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 13:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g	10 mL	11464 11507	11/04/21 13:07 11/05/21 17:49	DM AJ	XEN MID XEN MID

Eurofins Xenco, Carlsbad

Page 34 of 47

2

3

5

7

q

10

12

14

Matrix: Solid

Matrix: Solid

11/11/2021

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH04

Date Collected: 11/02/21 10:57 Date Received: 11/02/21 14:53

Lab Sample ID: 890-1519-7

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:27	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1519-8

Date Collected: 11/02/21 11:13 Date Received: 11/02/21 14:53 **Matrix: Solid**

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 13:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:34	CH	XEN MID

Client Sample ID: BH05 Lab Sample ID: 890-1519-9

Date Collected: 11/02/21 11:23

Matrix: Solid

Matrix: Solid

Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 13:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 18:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:42	CH	XEN MID

Client Sample ID: BH06 Lab Sample ID: 890-1519-10

Date Collected: 11/02/21 11:40 Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 14:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 18:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:49	CH	XEN MID

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Client Sample ID: BH06

Date Collected: 11/02/21 11:47 Date Received: 11/02/21 14:53 Lab Sample ID: 890-1519-11

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 15:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 19:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11463	11/04/21 13:06	SC	XEN MID
Soluble	Analysis	300.0		1			11706	11/09/21 10:57	CH	XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-1519-12

Date Collected: 11/02/21 12:10

Date Received: 11/02/21 14:53

Matrix: Solid

Batch Dil Initial Final 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 11477 11/05/21 16:41 MR XEN MID Total/NA 8021B 5 mL 11/06/21 16:02 XEN MID Analysis 1 5 mL 11515 KL Total/NA Total BTEX 11768 XEN MID Analysis 11/08/21 17:11 A.I 1 Total/NA Analysis 8015 NM 11856 11/09/21 16:19 XEN MID Total/NA XEN MID Prep 8015NM Prep 10.04 g 11464 11/04/21 13:07 DM 10 mL Total/NA Analysis 8015B NM 11507 11/05/21 19:35 AJ XEN MID Soluble SC XEN MID Leach DI Leach 5.01 g 50 mL 11463 11/04/21 13:06 Soluble Analysis 300.0 11706 11/09/21 11:04 CH XEN MID

Client Sample ID: BH07 Lab Sample ID: 890-1519-13

Date Collected: 11/02/21 12:20 Date Received: 11/02/21 14:53

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 16:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 19:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11465	11/04/21 13:12	SC	XEN MID
Soluble	Analysis	300.0		1			11709	11/10/21 11:50	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-1519-14 Date Collected: 11/02/21 12:32 **Matrix: Solid**

Date Received: 11/02/21 14:53

_	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	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 16:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 36 of 47

Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

Job ID: 890-1519-1

Client Sample ID: BH08

Lab Sample ID: 890-1519-14

Matrix: Solid

Date Collected: 11/02/21 12:32 Date Received: 11/02/21 14:53

	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			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 20:17	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11465	11/04/21 13:12	SC	XEN MID
Soluble	Analysis	300.0		1			11709	11/10/21 11:58	CH	XEN MID

Client Sample ID: BH08 Lab Sample ID: 890-1519-15 Date Collected: 11/02/21 12:43 **Matrix: Solid**

Date Received: 11/02/21 14:53

	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	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 17:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 20:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11465	11/04/21 13:12	SC	XEN MID
Soluble	Analysis	300.0		1			11709	11/10/21 12:05	CH	XEN MID

Client Sample ID: BH09 Lab Sample ID: 890-1519-16

Date Collected: 11/02/21 12:53 Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 17:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11464	11/04/21 13:07	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11507	11/05/21 20:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	11465	11/04/21 13:12	SC	XEN MID
Soluble	Analysis	300.0		1			11709	11/10/21 12:13	CH	XEN MID

Lab Sample ID: 890-1519-17 Client Sample ID: BH09

Date Collected: 11/02/21 13:03 Date Received: 11/02/21 14:53

	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	11477	11/05/21 16:41	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11768	11/08/21 17:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.00 g	10 mL	11589 11624	11/05/21 13:34 11/07/21 00:06	DM AJ	XEN MID XEN MID

Eurofins Xenco, Carlsbad

Page 37 of 47

Matrix: Solid

Matrix: Solid

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008 SDG: Eddy County

Client Sample ID: BH09 Lab Sample ID: 890-1519-17 Date Collected: 11/02/21 13:03

Matrix: Solid

Date Received: 11/02/21 14:53

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	11465	11/04/21 13:12	SC	XEN MID
Soluble	Analysis	300.0		1			11709	11/10/21 12:20	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: 890-1519-1 Project/Site: Sterling 4H 6HCTB - 31403152.008

SDG: Eddy County

Laboratory: Eurofins Xenco, Midland

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

Authority	Pre	ogram	Identification Number	Expiration Date
Texas	NE	LAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	t the laboratory is not certifi	ied by the governing authority. This list ma	av include analytee for y
the agency does not of	' '	t the laboratory is not certifi	led by the governing authority. This list his	ay include analytes for v
0 ,	' '	Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

Method Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

y	County	

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Sterling 4H 6HCTB - 31403152.008

Job ID: 890-1519-1

SDG: Eddy County

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1519-1	BH01	Solid	11/02/21 08:55	11/02/21 14:53	1
890-1519-2	BH02	Solid	11/02/21 09:40	11/02/21 14:53	
890-1519-3	BH02	Solid	11/02/21 09:52	11/02/21 14:53	4
890-1519-4	BH03	Solid	11/02/21 10:30	11/02/21 14:53	1
890-1519-5	BH03	Solid	11/02/21 10:40	11/02/21 14:53	4
890-1519-6	BH04	Solid	11/02/21 10:45	11/02/21 14:53	1
890-1519-7	BH04	Solid	11/02/21 10:57	11/02/21 14:53	4
890-1519-8	BH05	Solid	11/02/21 11:13	11/02/21 14:53	1
890-1519-9	BH05	Solid	11/02/21 11:23	11/02/21 14:53	4
890-1519-10	BH06	Solid	11/02/21 11:40	11/02/21 14:53	1
890-1519-11	BH06	Solid	11/02/21 11:47	11/02/21 14:53	4
890-1519-12	BH07	Solid	11/02/21 12:10	11/02/21 14:53	1
890-1519-13	BH07	Solid	11/02/21 12:20	11/02/21 14:53	4
890-1519-14	BH08	Solid	11/02/21 12:32	11/02/21 14:53	1
890-1519-15	BH08	Solid	11/02/21 12:43	11/02/21 14:53	4
890-1519-16	BH09	Solid	11/02/21 12:53	11/02/21 14:53	1
890-1519-17	BH09	Solid	11/02/21 13:03	11/02/21 14:53	4

Relinquished by

Circle Method(s)

Total 200.7 / 60

B trale

BITRES

BITE 4 Hay 8 BHD3 B1102

Chain of Custody

		EL Paso, IA (>	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296		
		Hobbs, NM (5	Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	www.xenco.com	Page of 2
ject Manager: Joseph 1	Hernandez	Bill to: (if different)	AAn WSP: Joseph Hernandez	mn	ents
WSP US	D	Company Name:		Program: UST/PST PRP Brownfields	lds RRC Superfund
3300	A Steet	Address:			
2	L	City, State ZIP:		Reporting: Level II Level III PST/U	PST/UST TRRP Level IV
- cot (186)	6)	anna byers	s@ wsp. com	Deliverables: EDD ADaPT	Other:
Ject Name: Storling 4	6HCTB	Turn Around	ANALYSIS REQUEST	ST	Preservative Codes
	X Bout	Rush Pres.		Nor	None: NO DI Water: H ₂ O
				Coo	Cool: Cool MeOH: Me
Anna		day received by	B)	. , , HCL	HCL: HC HNO 3: HN
12	0.	the lab, if received by 4:30pm	4	H ₂ S	H ₂ SO ₄ : H ₂ NaOH: Na
MPLE RECEIPT Temp Blank:	nk: (Yas No Wetice:	No Neter	02	H ₃ P	H ₃ PO ₄ : HP
nples Received Intact: (Ye) No		MOD A	8	Nat	NaHSO 4: NABIS
Yes No	Correction Factor:	-0,2	PA		Na ₂ S ₂ O ₃ : NaSO ₃
al Containers:	Corrected Temperature:	- :	CI		NaOH+Ascorbic Acid: SAPC
dentification	Matrix Date Time	Depth Grab/ # of Cont	TPH BIEX 24 by		Sample Comments
B1481	· C	1' Gray 1	-		cost center:
BHZ02		(٤	WBS TA. 21. 02713. 00
B1102	Ø952	٦,			
BHØ3	1636	1/			
BHOS	1640	Ц' -	X		
BITIEN	1645	()			
BHB4	F.501	بر -			
BITRIS	1113	-			
31185	1123	4/ 1			
BHOOL	Ahli A A	1 4 1			
otal 200.7 / 6010 200.8 / 6020:	20: 8RCRA 13PPM	Texas 11	Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn	Mo Ni K Se	Sn U V Zn
rle Method(s) and Metal(s) to be analyzed		LP 6010 : 8RCRA St	TCLP / SPLP 6010 : 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag	Ag TI U Hg: 1631 / 245.1 / 7470	70 / 7471
ure of this document and relinquishment or often serious will be liable only for the cost of the cost	of samples constitutes a valid purchase order to framples and shall not assume any respo	er from client company to Eurofinsibility for any losses or expense	Elig <u>nature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors, it assigns standard terms and conditions in the control of the control of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of the contr</u>	and conditions nd the control	
Jelinquished by: (Signature)	Received by: (Signature)		Jelinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature) Re	e) Received by: (Signature)	Date/Time
and B	100		2 21 121110		

Sample Custody Sea

Total Containers:

Cooler Custody Seal

amples Received In

SAMPLE RECEIPT

Sampler's Name:

roject Location:

Project Number:

Project Name:

City, State ZIP: Address: Project Manager:

Company Name:

City, State ZIP:

Company Name:

330B N

Astrect

Joseph Hernandez

Environment Testing Xenco

14

Chain of Custody n, TX (281) 240-4200, Dallas, TX (214) 902

Politoraphor: EDD	tate ZIP: Reporting: Level II	State of Project:		(It different) Attn: Juseph Hanandez		Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199	EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296	Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334 Work	
ADART Other	Reporting: Level II 🗌 Level III 🔲 PST/UST 🗍 TRRP 📗 Level IV 📗		Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐	Work Order Comments	www.xenco.com Page L of L	2		Work Order No:	

SHEAD WELLS AND BLUE DIE DIE DIE DIE DIE DIE DIE DIE DIE DI								K
Se Ag SiO ₂ Na Sr 1 Hg: 1631 / 245.1 /			4			1		
Se Ag SiO ₂ Na Sr 1 Hg: 1631 / 245.1 /			1	2.11				mure by
Se Ag SiO ₂ Na Sr 1 Hg: 1631 / 245.1 /					ure)	Received by: (Signat	>	Relinquished by: (Signature)
II K Se Ag SiO ₂ Na Sr 1 Hg: 1631 / 245.1 /		ns and conditions yond the control ss previously negotiated.	ns Xenco, its affiliares and subcontractors. It assigns standard term as incurred by the client if such losses are due to circumstances be tofins Xenco, but not analyzed. These terms will be enforced unles	ny to Eurofin s or expense nitted to Eur	order from cilent compa sponsibility for any losse: \$5 for each sample subr	constitutes a valid purchase s and shall not assume any reeach project and a charge of	nd relinquishment of sample ble only for the cost of sample ge of \$85.00 will be applied to	e: Signature of this document a vice. Eurofins Xenco will be lia rofins Xenco. A minimum char
SHCRA 13PPM Texas 11 At Sta As Ba Be B Cd Ca Cr Co Cu Fe Pb Mq Mn Mo Ni K Se Aq SiO, Na Sr Ti Sn U V Zin Cantu C	Hg: 1631/245.1/7470/7471	Se Ag TI U	As Ba Be Cd Cr Co Cu Pb Mn Mo Ni	CRA Sb	/ SPLP 6010 : 8R	zed TCLP	Aetal(s) to be analy	cle Method(s) and I
SHUBJES LODE ANALISS ROUND ANALIS	e Ag SiO ₂ Na Sr Tl Sn U V Zn	Mn Mo Ni K Se	As Ba Be B Cd Ca Cr Co Cu Fe Pb Mc	Al Sb	PPM Texas 11	- 11	200.8 / 6020:	Total 200 7 / 6010
State Ing Att State St			787					
Seals: Ves No NA Matrix Sampled Sampled ontification Matrix Sampled Matri								
SHEST DEB Moutine □Rush Fres. SHEST DEB MOUTE □Rush Fres. Ed du Couchty Due Date: Pass Homa Byeseived by Asspiration Reading: Pass No Wet Ice: Yes No Wet Ice: Yes No Watrix Sampled Sampled Sampled Corrected Temperature: Pass Seals: Yes No N/A LempErature: Pass In Date Time Sampled Sampled Sampled Corrected Temperature: Pass Sampled Sampl								
Step Compared Co	-16			-	-	1303	4	BHAG
Second S				-		1253		BHBS
Ster Log Att GH GH GH Ster				-		1242		BHOBB
Seals: Yes No N/A Corrected Temperature: Corrected Temperature: Date Dat			X	-	<	1232		BHÓ8
The first the day received by 4:30pm Fig. Fig. Fig.				-	1	1729		10 E
Steeling 4H 6H CVB Turn Around Preservative Sampled Samp	WBS TA.21.92743,000			-	- '	1/ 1210		ta48
Sher Ing AH CHE Cole C	cost center:			-		10		BHA
Steels: Yes No N/A Jemperature Reading: Yes No N/A Jemperature Yes No N/A Jemperature Reading:	Sample Comments		BTE		-			Sample Identification
Ster I and Att CAS Turn Around ANALYSIS REQUEST Ster I and State Due Date: Code Fresh Anna Buers Tat starts the day received by 4:30pm Temp Blank: Yes No N/A Temperature Reading: Par Starts Yes No N/A Temperature Reading: Par Starts Temp Blank: Yes No N/A Temperature Readi	NaOH+Ascorbic Acid: SAPC		X (Corrected Temperature		Total Containers:
Ster I was Hold Carection Factor. Ster I was Hold Carection Factor. Ster I was Hold Carection Factor. Ster I was Hold Care Code Find All Carection Factor. Pres. No N/A Correction Factor. Ster I was No N/A Correction Factor. Page 2 4 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2	Zn Acetate+NaOH: Zn		E		0	Temperature Reading:	No N/A	Sample Custody Seals:
Immaci Byers Temp Blank: Yes No Thermometer ID: Immacound Pres. The Advance The Street T	Na ₂ S ₂ O ₃ : NaSO ₃		e f	P.	1	Correction Factor:	N/A	Cooler Custody Seals:
TempBlank: Yes No Wet Ice: Yes No Barrier Manager Mana	NaHSO 4: NABIS		+ 5	aran		hermometer ID:	No	samples Received Intact:
Stering 4H GH CVB Turn Around ANALTSIS REQUEST None: NO	H ₃ PO ₄ : HP		30	neter		-	Temp Blank:	SAMPLE RECEIPT
Sterling 4H GH CIB Turn Around Pres. 314\\(\rho_{3152}\) \(\rho_{\rho}\) \(\r			21	's	received by 4:30pm	-	002129255	oo #:
Sterling 4H GH CIB Turn Around Pres. 314\\(\rightarrow{3\cdots2.pp8}\) Moutine \(\partial \text{Rush} \) Code \(\cdots \) \(\frac{1}{2} \) None: NO Eddy Country \(\text{Due Date:} \) \(\frac{1}{2} \) Cool: Cool			В		the day received by	Ļ	na Byers	sampler's Name:
314\(\mathcal{G}\)3\()				du Count	Project Location:
Sterling AH GH CAB Turn Around ANALYSIS REQUEST				Code			Ø3152 . ØØ1	roject Number: 314
ANALYSIS BEOLIECT	Preservative Codes	JEST	ANALYSIS REQUES		irn Around	CTB	the AH ba	roject Name: Ske

Carlsbad NM 88220

089 N Canal St

1

2

3

Eurofins Xenco, Carlsbad

6

8

10

12

13

Chain of Custody Record

 _
 =
 =
2
=
=
 =
=
#
 2
=
=
≡
 =
 =
=
 _

🤔 eurofins

Environment Testing America

State, Zip TX 79701 BH04 (890-1519-6) BH01 (890-1519-1) BH03 (890-1519-5) BH02 (890-1519-3) Phone 575-988-3199 Fax 575-988-3199 BH05 (890-1519-9) BH05 (890-1519-8) BH04 (890-1519-7) BH03 (890-1519-4) BH02 (890-1519-2) Sample Identification - Client ID (Lab ID) Shipping/Receiving 132-704-5440(Tel) Client Information 211 W Florida Ave terling 4H 6HCTB mpty Kit Relinquished by ossible Hazard Identification ote 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 airliain 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. dand oject Name Custody Seals Intact

∆ Yes ∆ No linquished by: linquished by eliverable Requested I II III IV Other (specify) ention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC ırofins Xenco linquished by: confirmed ST SAIL (Sub Contract Lab Custody Seal No B び Date/Time Date/Time Primary Deliverable Rank 39000048 TAT Requested (days): 11/8/2021 Due Date Requested Sample Date 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 Mountain 11 13 Mountain 10 57 Mountain 11 23 Mountain 10 40 Mountain 10 30 Mountain 09 52 Mountain 09 40 Date Mountain 10 45 08 55 (C=comp, Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica essica kramer@eurofinset.com Field Filtered Sample (Yes or No) Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Time Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 8015MOD_NM/8015NM_S_Prep Full TPH × × Cooler Temperature(s) °C and Other Remarks × × × Received by × × × × Return To Client 300 ORGFM 28D/DI LEACH Chloride × × × × × × 8021B/5035FP_Calc BTEX × × × × × × × \times × Total_BTEX_GCV × × × × × × × Analysis Requested 8015MOD Calo × × × × × × Disposal By Lab State of Origin New Mexico Date/Time Archive For 4 A STATE OF THE STA **Total Number of containers** 113) *10*00 العقام COC No 890-494 1 πo mm o d 890-1519-1 Page 1 of 2 Preservation Codes Nitro Acid
Natro Acid NaOH Special Instructions/Note V ⊗ < C → O Z O D O ASNAO2
O ASNAO2
O ASNAO2
P Na204S
Q Na2S03
R Na2S203
R Na2S203
R 175P Dodecahydrate
U Acetone
V MCAA Company Company Ver 06/08/202 other (specify) pH 4-5 Months E

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199 1

2

3

Eurofins Xenco, Carlsbad

5

7

10

12 13

13

Chain of Custody Record

💸 eurofins

Environment Testing
America

Midland
State Zip
TX 79701 BH06 (890-1519-10) Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins 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. BH08 (890-1519-15) BH08 (890-1519-14) BH07 (890-1519-13) BH07 (890-1519-12) BH06 (890-1519-11) Empty Kit Relinquished by Deliverable Requested I II III IV Possible Hazard Identification BH09 (890-1519-17) BH09 (890-1519-16) Sample Identification - Client ID (Lab ID) Sterling 4H 6HCTB 1211 W Florida Ave Eurofins Xenco I32-704-5440(Tel) elinquished by linquished by hipping/Receiving ient Contact: Custody Seals Intact: oject Name lient Information Yes 8 B (Sub Contract Lab) Custody Seal No Other (specify) 0 二 1 Project #: 89000048 Due Date Requested Sampler Date/Time Primary Deliverable Rank WO# TAT Requested (days))ate/Time Sample Date 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 11/2/21 Date Mountain 12 10 Mountain 12 53 Mountain 11 47 Mountain Mountain 12 43 Mountain 12 32 Mountain 12 20 Sample 11 40 (C=Comp G=grab) Sample Type Preservation Code: Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica E-Mail jessica kramer@eurofinset com Field Filtered Sample (Yes or No) NELAP - Louisiana NELAP - Texas lime Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer 8015MOD_NM/8015NM_S_Prep Full TPH Recei × × × × \times × × Cooler Temperature(s) °C and Other Remarks Return To Client × \times × × × × × × 300_ORGFM_28D/DI_LEACH Chloride × 8021B/5035FP_Calc BTEX × × × × × × × × Total BTEX_GCV × × × × × × × Analysis Requested × × × 8016MOD_Cald × \times × × \times Disposal By Lab New Mexico State of Origin Carrier Tracking No(s) ethod of Shipment Date/Time Archive For Total Number of containers ndes. Angel E 3 (1996) (1996) -A HCL
B NACH
C Zn Accele
D Nitric Acid
E MeOH
G Amchior
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA COC No: 890-494 2 Preservation Codes 890-1519-1 Page 2 of 2 Special Instructions/Note than P NAZO4S
P NAZO4S
Q NAZSO3
R NAZSO3
R NAZSO3
R NAZSO3
S H2SO4
T TSP Dodecahydrate
U Acctione 1 month) Company Company /er: 06/08/2021 MCAA pH 4-5 other (specify) Ě

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1519-1

SDG Number: Eddy County

Login Number: 1519 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	

1

4

6

8

10

15

13

14

Login Sample Receipt Checklist

Job Number: 890-1519-1

SDG Number: Eddy County

List Source: Eurofins Xenco, Midland

List Creation: 11/04/21 10:33 AM

List Number: 2 Creator: Kramer, Jessica

Client: WSP USA Inc.

Login Number: 1519

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.5/3.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

3

_

ŏ

10

12

13

14

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1719-1

Laboratory Sample Delivery Group: 31403152.01

Client Project/Site: Sterlinng #4 & #6 CTB

Revision: 1

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 12/17/2021 4:39:02 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 2/2/2022 2:04:44 PM

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

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

Client: WSP USA Inc.

Laboratory Job ID: 890-1719-1

Project/Site: Sterlinng #4 & #6 CTB

SDG: 31403152.01

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	17
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receint Checklists	24

2

3

4

6

8

10

11

13

14

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1719-1 Project/Site: Sterlinng #4 & #6 CTB

SDG: 31403152.01

Qualifiers

GC VOA Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Job ID: 890-1719-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1719-1

REVISION

The report being provided is a revision of the original report sent on 12/16/2021. The report (revision 1) is being revised due to Per client email, edited COC samples are composite.

Report revision history

Receipt

The samples were received on 12/14/2021 4:55 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.2°C

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

GC Semi VOA

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

HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-1719-1

 Client: WSP USA Inc.
 Job ID: 890-1719-1

 Project/Site: Sterlinng #4 & #6 CTB
 SDG: 31403152.01

Client Sample ID: FS01

Date Collected: 12/14/21 13:58 Date Received: 12/14/21 16:55

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
Ethylbenzene	< 0.00199	U	0.00199	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
o-Xylene	< 0.00199	U	0.00199	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/16/21 07:45	12/16/21 12:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			12/16/21 07:45	12/16/21 12:32	1
1,4-Difluorobenzene (Surr)	99		70 - 130			12/16/21 07:45	12/16/21 12:32	1

Method: Total BTEX - Total BTEX	(Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			12/16/21 21:04	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)									
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	<50.0	U	50.0	mg/Kg			12/15/21 16:03	1

Analyte	•	Qualifier	(GC) RL	Unit	ь.	Prepared	Analyzed	Dil Fac
Analyte	Resuit	Qualifier	KL	Onit		Prepareu	Analyzeu	DII Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 13:50	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 13:50	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 13:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	93	70 - 130	12/16/21 08:22	12/16/21 13:50	1
o-Terphenyl	111	70 - 130	12/16/21 08:22	12/16/21 13:50	1
Method: 300.0 - Anions. Ion Cl	hromatography - Solu	ıble			

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	437	4.95	mg/Kg			12/16/21 16:09	1

Client Sample ID: FS02

Date Collected: 12/14/21 14:00

Date Received: 12/14/21 16:55

Lab Sample ID: 890-1719-2

Matrix: Solid

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 12:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			12/16/21 07:45	12/16/21 12:53	1

Eurofins Xenco, Carlsbad

2

3

4

6

8

10

12

13

2/17/2021 (Pov. 1)

 Client: WSP USA Inc.
 Job ID: 890-1719-1

 Project/Site: Sterlinng #4 & #6 CTB
 SDG: 31403152.01

Client Sample ID: FS02 Lab Sample ID: 890-1719-2

Date Collected: 12/14/21 14:00 Matrix: Solid
Date Received: 12/14/21 16:55

Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Anaiyzea	DII Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	12/16/21 07:45	12/16/21 12:53	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/16/21 21:04	1

l .		
Method: 8015 NM - Diesel	Dongo Organica	
i Metriou, ou la Mini - Dieser	Range Organics	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			12/15/21 16:03	1

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

Analyte	•	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 14:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 14:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101	70 - 130	12/16/21 08:22	12/16/21 14:11	1
o-Terphenyl	118	70 - 130	12/16/21 08:22	12/16/21 14:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	310		5.04	mg/Kg			12/16/21 16:34	1

Client Sample ID: SW01

Date Collected: 12/14/21 14:02

Lab Sample ID: 890-1719-3

Matrix: Solid

Date Collected: 12/14/21 14:02 Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

Method: 8021B - Volatile Organic Compounds (GC)

Method. 002 ID - Volatile O	igaine compo	ulius (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
Toluene	< 0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
Ethylbenzene	< 0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 13:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			12/16/21 07:45	12/16/21 13:13	1
1 4-Difluorobenzene (Surr)	99		70 - 130			12/16/21 07:45	12/16/21 13:13	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			12/16/21 21:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg	_		12/15/21 16:03	1

Eurofins Xenco, Carlsbad

-

3

4

5

7

9

10

12

Н

Matrix: Solid

Client: WSP USA Inc. Job ID: 890-1719-1 Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

Client Sample ID: SW01

Lab Sample ID: 890-1719-3 Date Collected: 12/14/21 14:02 Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:32	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			12/16/21 08:22	12/16/21 14:32	1
o-Terphenyl	103		70 - 130			12/16/21 08:22	12/16/21 14:32	1

Method: 300.0 - Anions, Ion Cl	hromatograp	hy - Solubl	le					
Analyte	Result C	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		4.98	mg/Kg			12/16/21 16:42	1

Lab Sample ID: 890-1719-4 **Client Sample ID: SW02** Date Collected: 12/14/21 14:04 **Matrix: Solid**

Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/16/21 07:45	12/16/21 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			12/16/21 07:45	12/16/21 13:33	1
1,4-Difluorobenzene (Surr)	100		70 - 130			12/16/21 07:45	12/16/21 13:33	1
Method: Total BTEX - Total	BTEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			12/16/21 21:04	1

IOTALBIEX	<0.00396	U	0.00396	mg/Kg			12/16/21 21:04	1
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (0	GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/15/21 16:03	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:53	1
(GRO)-C6-C10	<10.0		40.0	no a /1/ a		10/16/01 00:00	10/16/01 14:50	4
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:53	
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/16/21 08:22	12/16/21 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			12/16/21 08:22	12/16/21 14:53	1
o-Terphenyl	117		70 - 130			12/16/21 08:22	12/16/21 14:53	1

Client: WSP USA Inc. Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Lab Sample ID: 890-1719-4

Matrix: Solid

Client Sample ID: SW02

Date Collected: 12/14/21 14:04 Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

	Method: 300.0 - Anions, Ion Chro	omatogra	phy - Solul	ble					
4	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
L	Chloride	202		4.99	mg/Kg			12/16/21 16:51	1

Client Sample ID: SW03 Lab Sample ID: 890-1719-5 Matrix: Solid

Date Collected: 12/14/21 14:08 Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

Analyte

Chloride

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
Toluene	< 0.00201	U	0.00201	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
Ethylbenzene	< 0.00201	U	0.00201	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
m-Xylene & p-Xylene	< 0.00402	U	0.00402	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
o-Xylene	< 0.00201	U	0.00201	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/16/21 07:45	12/16/21 13:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130			12/16/21 07:45	12/16/21 13:54	1
1,4-Difluorobenzene (Surr)	105		70 - 130			12/16/21 07:45	12/16/21 13:54	1
Total BTEX	<0.00402		0.00402	mg/Kg			12/16/21 21:04	1
Total BTEX : Method: 8015 NM - Diesel Rai				mg/Kg			12/16/21 21:04	1
Method: 8015 NM - Diesel Rai Analyte	nge Organic Result	s (DRO) (O	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	nge Organic Result <50.0	S (DRO) (O Qualifier	RL 50.0		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Rai Analyte	nge Organic Result <50.0	S (DRO) (O Qualifier	RL 50.0	Unit	<u>D</u>	Prepared Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R	nge Organic Result <50.0	S (DRO) (O Qualifier U	RL 50.0 (GC)	Unit mg/Kg	_ =	<u> </u>	Analyzed 12/15/21 16:03	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	nge Organic Result <50.0 ange Organ Result	S (DRO) (O Qualifier U	RL 50.0 (GC)	Unit mg/Kg	_ =	Prepared 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result <50.0 ange Organ Result <50.0	S (DRO) (O Qualifier U ics (DRO) Qualifier U	(GC) RL 50.0 RL 50.0	Unit mg/Kg Unit mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:34	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organic Result <50.0 ange Organ Result <50.0	S (DRO) (C Qualifier U C Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:34 12/16/21 15:34	1 Dil Fac 1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organic Result <50.0 ange Organ Result <50.0 <50.0	S (DRO) (C Qualifier U C Qualifier U U U	GC) RL 50.0 (GC) RL 50.0 50.0 50.0	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:34 12/16/21 15:34 12/16/21 15:34	1 Dil Fac 1 1

Analyzed

12/16/21 16:59

Dil Fac

RL

49.7

Unit

mg/Kg

D

Prepared

Result Qualifier

9940

Method: 300.0 - Anions, Ion Chromatography - Soluble

Matrix: Solid

Lab Sample ID: 890-1719-6

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1719-1 Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

Client Sample ID: SW04

Date Collected: 12/14/21 14:11 Date Received: 12/14/21 16:55

Sample Depth: 0 - 2.5

Chloride

Released to Imaging: 2/2/2022 2:04:44 PM

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/16/21 07:45	12/16/21 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	117		70 - 130			12/16/21 07:45	12/16/21 14:14	
1,4-Difluorobenzene (Surr)	98		70 - 130			12/16/21 07:45	12/16/21 14:14	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	11	0.00401	mg/Kg			12/16/21 21:04	
TOTAL DI LA	\0.00 4 01	O	0.00+01	g/.\g			, ,	
				9/119			,,	
Method: 8015 NM - Diesel Ra	nge Organic			Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH	nge Organic	s (DRO) (O	GC)		<u>D</u>	Prepared		Dil Fac
Method: 8015 NM - Diesel Ra Analyte Total TPH	nge Organic Result <49.8	S (DRO) (O Qualifier	RL 49.8	Unit	D_	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Ra Analyte Total TPH Method: 8015B NM - Diesel R	nge Organic Result <49.8	S (DRO) (O Qualifier	RL 49.8	Unit	<u>D</u>	Prepared Prepared	Analyzed	1
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics	nge Organic Result <49.8	s (DRO) (G Qualifier U	RL 49.8 (GC)	Unit mg/Kg	_ =	· ·	Analyzed 12/15/21 16:03	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	nge Organic Result <49.8 ange Organ Result	S (DRO) (O Qualifier U	RL 49.8 (GC)	Unit mg/Kg	_ =	Prepared 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	nge Organic Result <49.8 ange Organ Result <49.8	s (DRO) (O Qualifier U ics (DRO) Qualifier U	(GC) RL 49.8 RL 49.8	Unit mg/Kg Unit mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:55	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	nge Organic Result <49.8 ange Organ Result <49.8	s (DRO) (G Qualifier U ics (DRO) Qualifier U	(GC) RL 49.8 (GC) RL 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:55 12/16/21 15:55	Dil Fac
Method: 8015 NM - Diesel Ran Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	nge Organic Result <49.8 ange Organ Result <49.8 <49.8	s (DRO) (G Qualifier U ics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8 49.8 49.8	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:55 12/16/21 15:55 12/16/21 15:55	Dil Fac
Method: 8015 NM - Diesel Ra Analyte	nge Organic Result <49.8 ange Organ Result <49.8 <49.8 <49.8	s (DRO) (G Qualifier U ics (DRO) Qualifier U	RL 49.8 (GC) RL 49.8 49.8 49.8 Limits	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22 12/16/21 08:22 Prepared 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:55 12/16/21 15:55 12/16/21 15:55 Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai Analyte Total TPH Method: 8015B NM - Diesel R Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	nge Organic Result <49.8 ange Organ Result <49.8 <49.8 <49.8 %Recovery 95 116	S (DRO) (O Qualifier U U U Qualifier	GC) RL 49.8 (GC) RL 49.8 49.8 49.8 49.8 Limits 70-130 70-130	Unit mg/Kg Unit mg/Kg mg/Kg	_ =	Prepared 12/16/21 08:22 12/16/21 08:22 12/16/21 08:22 Prepared 12/16/21 08:22	Analyzed 12/15/21 16:03 Analyzed 12/16/21 15:55 12/16/21 15:55 12/16/21 15:55 Analyzed 12/16/21 15:55	Dil Fac

49.5

mg/Kg

10100

12/16/21 17:24

10

Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1719-1

 Project/Site: Sterlinng #4 & #6 CTB
 SDG: 31403152.01

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

			Percent Sur	rogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1719-1	FS01	107	99	
890-1719-1 MS	FS01	113	100	
890-1719-1 MSD	FS01	111	101	
890-1719-2	FS02	105	105	
890-1719-3	SW01	113	99	
890-1719-4	SW02	117	100	
890-1719-5	SW03	116	105	
890-1719-6	SW04	117	98	
LCS 880-14827/1-A	Lab Control Sample	108	95	
LCSD 880-14827/2-A	Lab Control Sample Dup	105	92	
MB 880-14827/5-A	Method Blank	99	103	
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)				
880-9101-A-1-E MS	Matrix Spike	78	84				
880-9101-A-1-F MSD	Matrix Spike Duplicate	75	81				
890-1719-1	FS01	93	111				
890-1719-2	FS02	101	118				
890-1719-3	SW01	89	103				
890-1719-4	SW02	100	117				
890-1719-5	SW03	101	123				
890-1719-6	SW04	95	116				
LCS 880-14906/2-A	Lab Control Sample	94	104				
LCSD 880-14906/3-A	Lab Control Sample Dup	94	101				
MB 880-14906/1-A	Method Blank	102	129				

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1719-1 Client: WSP USA Inc. Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14827/5-A

Matrix: Solid

Analysis Batch: 14890

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14827

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 10:39	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 10:39	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 10:39	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 10:39	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/16/21 07:45	12/16/21 10:39	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/16/21 07:45	12/16/21 10:39	1

MB MB

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99	70 - 130	12/16/21 07:45	12/16/21 10:39	1
1,4-Difluorobenzene (Surr)	103	70 - 130	12/16/21 07:45	12/16/21 10:39	1

Lab Sample ID: LCS 880-14827/1-A

Matrix: Solid

Analysis Batch: 14890

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14827

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.07563		mg/Kg		76	70 - 130	
Toluene	0.100	0.07381		mg/Kg		74	70 - 130	
Ethylbenzene	0.100	0.07648		mg/Kg		76	70 - 130	
m-Xylene & p-Xylene	0.200	0.1583		mg/Kg		79	70 - 130	
o-Xylene	0.100	0.08001		mg/Kg		80	70 - 130	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	95		70 - 130

Lab Sample ID: LCSD 880-14827/2-A

Matrix: Solid

Analysis Batch: 14890

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

Prep Batch: 14827

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.07974		mg/Kg		80	70 - 130	5	35
Toluene	0.100	0.08006		mg/Kg		80	70 - 130	8	35
Ethylbenzene	0.100	0.08202		mg/Kg		82	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1693		mg/Kg		85	70 - 130	7	35
o-Xylene	0.100	0.08345		mg/Kg		83	70 - 130	4	35

LCSD LCSD

Sample Sample

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	92		70 - 130

Lab Sample ID: 890-1719-1 MSD

Matrix: Solid

Analysis Batch: 14890

Client Sample ID: FS01 Prep Type: Total/NA Prep Batch: 14827

RPD %Rec. %Rec Limits RPD Limit

Analyte Result Qualifier Added Result Qualifier Unit mg/Kg Benzene <0.00199 U 0.101 0.07696 Toluene <0.00199 U 0.101 0.07807 mg/Kg

Eurofins Xenco, Carlsbad

Spike

MSD MSD

Client: WSP USA Inc. Job ID: 890-1719-1 Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

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

Lab Sample ID: 890-1719-1 MSD Client Sample ID: FS01 **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 14890 Prep Batch: 14827

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	<0.00199	U	0.101	0.08397		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1784		mg/Kg					
o-Xylene	<0.00199	U	0.101	0.08729		mg/Kg					

MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 111 1,4-Difluorobenzene (Surr) 101 70 - 130

Lab Sample ID: 890-1719-1 MS **Client Sample ID: FS01 Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 14890

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	100		70 - 130

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

Lab Sample ID: MB 880-14906/1-A Client Sample ID: Method Blank

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 14894** Prep Batch: 14906 MB MB

Analyte	Result	Qualifier	KL	Unit	ט	Prepared	Anaiyzed	DII Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 09:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 09:51	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/16/21 08:22	12/16/21 09:51	1

MB MB %Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 1-Chlorooctane 70 - 130 12/16/21 08:22 12/16/21 09:51 102 o-Terphenyl 129 70 - 130 12/16/21 08:22 12/16/21 09:51

Lab Sample ID: LCS 880-14906/2-A **Client Sample ID: Lab Control Sample Matrix: Solid**

Analysis Batch: 14894

Released to Imaging: 2/2/2022 2:04:44 PM

LCS LCS Spike %Rec. Added **Analyte** Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 897.9 mg/Kg 90 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 909.9 mg/Kg 70 - 130

C10-C28)

	LC3 LC3	
Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	94	70 - 130
o-Terphenyl	104	70 - 130

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-1719-1 Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

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

Lab Sample ID: LCSD 880-14906/3-A

Matrix: Solid Analysis Batch: 14894 Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14906 %Rec. **RPD**

LCSD LCSD Spike Added Result Qualifier Unit D %Rec Limits **RPD** Limit Analyte Gasoline Range Organics 1000 918.7 mg/Kg 92 70 - 130 2 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1009 101 70 - 130 mg/Kg 10 20

C10-C28)

LCSD LCSD Surrogate %Recovery Qualifier Limits 1-Chlorooctane 70 - 130 94 70 - 130 o-Terphenyl 101

Lab Sample ID: 880-9101-A-1-E MS **Client Sample ID: Matrix Spike** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 14894

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	996	936.0		mg/Kg		91	70 - 130	
Diesel Range Organics (Over C10-C28)	<50.0	U	996	872.8		mg/Kg		88	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 78 70 - 130 o-Terphenyl 84 70 - 130

Lab Sample ID: 880-9101-A-1-F MSD

Matrix: Solid

Analysis Batch: 14894

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

Prep Batch: 14906

Prep Batch: 14906

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	995	1015		mg/Kg		99	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<50.0	U	995	863.6		mg/Kg		87	70 - 130	1	20

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	75		70 - 130
o-Terphenyl	81		70 - 130

MSD MSD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14940/1-A **Client Sample ID: Method Blank Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14980

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/16/21 15:44	1

Released to Imaging: 2/2/2022 2:04:44 PM

Chloride

Chloride

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1719-1

 Project/Site: Sterlinng #4 & #6 CTB
 SDG: 31403152.01

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14940/2-A

Client Sample ID: Lab Control Sample
Matrix: Solid

Prep Type: Soluble

254.1

254.0

mg/Kg

mg/Kg

102

102

90 - 110

90 - 110

0

250

250

Lab Sample ID: LCSD 880-14940/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Soluble Analysis Batch: 14980

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

Lab Sample ID: 890-1719-1 MS

Client Sample ID: FS01

Matrix: Solid
Analysis Batch: 14980

Prep Type: Soluble

Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits

AnalyteResult
ChlorideQualifier
437Added
248Result
667.4Qualifier
mg/KgUnit
mg/KgD
93%Rec
90 - 110Limits
90 - 110

Lab Sample ID: 890-1719-1 MSD

Matrix: Solid

Client Sample ID: FS01

Prep Type: Soluble

Analysis Batch: 14980

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

 Allaryte
 Result
 Qualifier
 Added
 Result
 Qualifier
 Office
 D // Rec
 Lifflits
 RFD
 Lifflit

 Chloride
 437
 248
 667.3
 mg/Kg
 93
 90 - 110
 0
 20

QC Association Summary

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1 SDG: 31403152.01

GC VOA

Prep Batch: 14827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	5035	
890-1719-2	FS02	Total/NA	Solid	5035	
890-1719-3	SW01	Total/NA	Solid	5035	
890-1719-4	SW02	Total/NA	Solid	5035	
890-1719-5	SW03	Total/NA	Solid	5035	
890-1719-6	SW04	Total/NA	Solid	5035	
MB 880-14827/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14827/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14827/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1719-1 MSD	FS01	Total/NA	Solid	5035	

Analysis Batch: 14890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	8021B	14827
890-1719-2	FS02	Total/NA	Solid	8021B	14827
890-1719-3	SW01	Total/NA	Solid	8021B	14827
890-1719-4	SW02	Total/NA	Solid	8021B	14827
890-1719-5	SW03	Total/NA	Solid	8021B	14827
890-1719-6	SW04	Total/NA	Solid	8021B	14827
MB 880-14827/5-A	Method Blank	Total/NA	Solid	8021B	14827
LCS 880-14827/1-A	Lab Control Sample	Total/NA	Solid	8021B	14827
LCSD 880-14827/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14827
890-1719-1 MS	FS01	Total/NA	Solid	8021B	
890-1719-1 MSD	FS01	Total/NA	Solid	8021B	14827

Analysis Batch: 14932

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	Total BTEX	
890-1719-2	FS02	Total/NA	Solid	Total BTEX	
890-1719-3	SW01	Total/NA	Solid	Total BTEX	
890-1719-4	SW02	Total/NA	Solid	Total BTEX	
890-1719-5	SW03	Total/NA	Solid	Total BTEX	
890-1719-6	SW04	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	8015 NM	
890-1719-2	FS02	Total/NA	Solid	8015 NM	
890-1719-3	SW01	Total/NA	Solid	8015 NM	
890-1719-4	SW02	Total/NA	Solid	8015 NM	
890-1719-5	SW03	Total/NA	Solid	8015 NM	
890-1719-6	SW04	Total/NA	Solid	8015 NM	

Analysis Batch: 14894

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	8015B NM	14906
890-1719-2	FS02	Total/NA	Solid	8015B NM	14906
890-1719-3	SW01	Total/NA	Solid	8015B NM	14906
890-1719-4	SW02	Total/NA	Solid	8015B NM	14906

Eurofins Xenco, Carlsbad

Page 15 of 25

1

2

Δ

6

8

9

11

4.0

14

irotins Xenco, Carisbac

QC Association Summary

Job ID: 890-1719-1 Client: WSP USA Inc. Project/Site: Sterlinng #4 & #6 CTB SDG: 31403152.01

GC Semi VOA (Continued)

Analysis Batch: 14894 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-5	SW03	Total/NA	Solid	8015B NM	14906
890-1719-6	SW04	Total/NA	Solid	8015B NM	14906
MB 880-14906/1-A	Method Blank	Total/NA	Solid	8015B NM	14906
LCS 880-14906/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14906
LCSD 880-14906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14906
880-9101-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	14906
880-9101-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14906

Prep Batch: 14906

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Total/NA	Solid	8015NM Prep	
890-1719-2	FS02	Total/NA	Solid	8015NM Prep	
890-1719-3	SW01	Total/NA	Solid	8015NM Prep	
890-1719-4	SW02	Total/NA	Solid	8015NM Prep	
890-1719-5	SW03	Total/NA	Solid	8015NM Prep	
890-1719-6	SW04	Total/NA	Solid	8015NM Prep	
MB 880-14906/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-14906/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14906/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-9101-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-9101-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 14940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Soluble	Solid	DI Leach	
890-1719-2	FS02	Soluble	Solid	DI Leach	
890-1719-3	SW01	Soluble	Solid	DI Leach	
890-1719-4	SW02	Soluble	Solid	DI Leach	
890-1719-5	SW03	Soluble	Solid	DI Leach	
890-1719-6	SW04	Soluble	Solid	DI Leach	
MB 880-14940/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14940/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14940/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1719-1 MS	FS01	Soluble	Solid	DI Leach	
890-1719-1 MSD	FS01	Soluble	Solid	DI Leach	

Analysis Batch: 14980

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1719-1	FS01	Soluble	Solid	300.0	14940
890-1719-2	FS02	Soluble	Solid	300.0	14940
890-1719-3	SW01	Soluble	Solid	300.0	14940
890-1719-4	SW02	Soluble	Solid	300.0	14940
890-1719-5	SW03	Soluble	Solid	300.0	14940
890-1719-6	SW04	Soluble	Solid	300.0	14940
MB 880-14940/1-A	Method Blank	Soluble	Solid	300.0	14940
LCS 880-14940/2-A	Lab Control Sample	Soluble	Solid	300.0	14940
LCSD 880-14940/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14940
890-1719-1 MS	FS01	Soluble	Solid	300.0	14940
890-1719-1 MSD	FS01	Soluble	Solid	300.0	14940

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Client Sample ID: FS01

Date Collected: 12/14/21 13:58 Date Received: 12/14/21 16:55

Lab Sample ID: 890-1719-1

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			5.02 g	5 mL	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 12:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14940	12/16/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			14980	12/16/21 16:09	CH	XEN MID

Client Sample ID: FS02 Lab Sample ID: 890-1719-2 Date Collected: 12/14/21 14:00

Date Received: 12/14/21 16:55

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 12:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	14940	12/16/21 12:03	СН	XEN MID
Soluble	Analysis	300.0		1			14980	12/16/21 16:34	CH	XEN MID

Client Sample ID: SW01 Lab Sample ID: 890-1719-3

Date Collected: 12/14/21 14:02 Date Received: 12/14/21 16:55

	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	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 13:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 14:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	14940	12/16/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			14980	12/16/21 16:42	CH	XEN MID

Client Sample ID: SW02 Lab Sample ID: 890-1719-4 Date Collected: 12/14/21 14:04 Matrix: Solid

Date Received: 12/14/21 16:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 13:33	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID

Eurofins Xenco, Carlsbad

Page 17 of 25

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Client Sample ID: SW02

Lab Sample ID: 890-1719-4

Matrix: Solid

Date Collected: 12/14/21 14:04 Date Received: 12/14/21 16:55

	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			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 14:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	14940	12/16/21 12:03	CH	XEN MID
Soluble	Analysis	300.0		1			14980	12/16/21 16:51	CH	XEN MID

Client Sample ID: SW03 Lab Sample ID: 890-1719-5 **Matrix: Solid**

Date Collected: 12/14/21 14:08 Date Received: 12/14/21 16:55

_	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	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 13:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 15:34	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	14940	12/16/21 12:03	СН	XEN MID
Soluble	Analysis	300.0		10			14980	12/16/21 16:59	CH	XEN MID

Client Sample ID: SW04 Lab Sample ID: 890-1719-6 **Matrix: Solid**

Date Collected: 12/14/21 14:11 Date Received: 12/14/21 16:55

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	14827	12/16/21 07:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	14890	12/16/21 14:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14932	12/16/21 21:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14652	12/15/21 16:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	14906	12/16/21 08:22	DM	XEN MID
Total/NA	Analysis	8015B NM		1			14894	12/16/21 15:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	14940	12/16/21 12:03	СН	XEN MID
Soluble	Analysis	300.0		10			14980	12/16/21 17:24	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: 890-1719-1

 Project/Site: Sterlinng #4 & #6 CTB
 SDG: 31403152.01

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following englyte	a are included in this rene	art but the laboratory is r	and portified by the governing outhority	This list was include an abite of an
		ort, but the laboratory is r	not certified by the governing authority.	This list may include analytes for
the agency does not o	offer certification.	•	, , ,	This list may include analytes for
the agency does not on Analysis Method		Matrix	Analyte	I his list may include analytes for the state of the stat
the agency does not o	offer certification.	•	, , ,	This list may include analytes for

4

5

7

8

10

12

13

Method Summary

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
0.00	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
I Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

Protocol References:

ASTM = ASTM International

Released to Imaging: 2/2/2022 2:04:44 PM

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Sterlinng #4 & #6 CTB

Job ID: 890-1719-1

SDG: 31403152.01

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1719-1	FS01	Solid	12/14/21 13:58	12/14/21 16:55	2.5
890-1719-2	FS02	Solid	12/14/21 14:00	12/14/21 16:55	2.5
890-1719-3	SW01	Solid	12/14/21 14:02	12/14/21 16:55	0 - 2.5
890-1719-4	SW02	Solid	12/14/21 14:04	12/14/21 16:55	0 - 2.5
890-1719-5	SW03	Solid	12/14/21 14:08	12/14/21 16:55	0 - 2.5
890-1719-6	SW04	Solid	12/14/21 14:11	12/14/21 16:55	0 - 2.5

3

4

7

8

9

10

12

13

Phone:

City, State ZIP:

ddress:

Project Manager:

ompany Name:

Project Name:

		Chain of Custody	Work Order No:
T 7 C 0 Ho	uston,TX (281) 240-4200	Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334	
	fidland,TX (432-704-544)	Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296	
Hobbs,NM (57)	5-392-7550) Phoenix,AZ	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	3-620-2000) www.xenco.com Page of
Joseph Hernandez	Bill to: (if different)	Melodie Sanjari	Work Order Comments
WSP USA Inc., Permian office	Company Name:	s: Marathon Oil	Program: UST/PST DRP Brownfields RC Juperfund
3300 North A St. Bldg 1, Unit 222	Address:	411 S Tidwell Rd	State of Project: NM
Midland, TX 79705	City, State ZIP:	Carlsbad, NM	Reporting:Level III Devel III DST/UST RAP Dvel IV
(432) 704-5178	mail: travis.casey@	Email: travis.casey@wsp.com, kalei.jennings@wsp.com, dan moir@v	Deliverables: EDD
Sterlinng #4 & #6 CTB	Turn Around	ANALYSIS REQUEST	JEST Work Order Notes

of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control P.O. Number: Sampler's Name: Project Number: Xenco. A minimum charge of \$75.00 will be applied to each-pfoject and a charge of \$5 for each sample emperature (°C): SAMPLE RECEIPT ample Custody Seals: eceived Intact: ooler Custody Seals: tice. 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 Relinquished by: (Signature) otal 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample Identification SW04 SWO3 SW02 SW01 FS02 FS01 Travis Casey Yes No (NIA) 200.8 / 6020: 31403152.01 Temp Blank: 11.2 Z Matrix ഗ တ ഗ ഗ ഗ Yes 12/14/2021 12/14/2021 12/14/2021 12/14/2021 12/14/2021 Sampled 12/14/2021 Ş Received by: (Signature) Date Correction Factor: ö Total Containers: 8RCRA 13PPM Texas 11 Al MM-007 Thermometer ID TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U Sampled 14:00 13:58 14:11 14:04 14:02 14:08 Time Wet Ice: (Yes Routine Rush: 24hrs Due Date:12-16 Ġ 0-2.5 0-2.5 0-2.5 0-2.52.5 25 Depth submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. 12/42/1853 **Number of Containers** Sp. Date/Time TPH (EPA 8015) As Ва BTEX (EPA 8021) Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni Chloride (EPA 300.0) Relinquished by: (Signature) 890-1719 Chain of Custody Received by: (Signature) X Şe δg SiO2 Na Sr Ti Sn U V 1631 / 245.1 / 7470 / 7471 : Hg IN: nAPP21255688 API: TAT starts the day received by the lab, if received by 4:30pm Sample Comments Descrete Descrete Descrete Descrete Descrete-Desercte Date/Time 'n 3 PPOS)

Revised Date 051418 Rev

Eurofins Xenco, Carlsbad

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

Chain of Custody Record

Environment Testing America

1	Sampler:			Lab PM			l		l		Carrier Tracking No(s)	racking	No(s)		١	8	COC No	
Client Information (Sub Contract Lab)	D.			Kran	Kramer Jessica	Ca										88	890-548 1	
Shipping/Receiving	ī			Jessic	essica kramer@eurofinset.com)r@eur	ofinse	.com			New Mexico	exico				Pa	Page: Page 1 of 1	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana, NELAP	ons Rec	Required (S uisiana, N	(See note): - Texas	SS.						89 jg	Job # 890-1719-1	
Address. 1211 W Florida Ave	Due Date Requested 12/16/2021	<u>.</u>						Ana	lysis Requested	Reg	este	۵				핗	Preservation Codes	des
City: Midland	TAT Requested (days):	/s):				\dashv		\dashv	十		-					∩ ₪ >	HCL NaOH Zn Acetate	M Hexane N None
State, Zip: TX 79701															7 - 100 - 180 211 - 181	шÓ	D - Nitric Acid E NaHSO4	P Na2O4S Q-Na2SO3
Phone: 432-704-5440(TeI)	PO #:								<u> </u>							ر o آ	F - MeOH G Amchlor	R Na2S2O3 S-H2SO4
Email	₩O#·				lo)												h - Ascolpic Acid ├─Ice J - DI Water	U - Acetone V MCAA
Project Name: Sterlinng #4 & #6 CTB	Project #: 88001014				s or N		≅X								alaar	See Hellin	K EDTA L-EDA	W - pH 4-5 Z other (specify)
Site	SSOW#:				(Ye		ВТЕ								Ant	mene	Other:	
	3				VISD (_Calc I		•								Ter:	
			Sample Type	Matrix (w=water	iltered m MS/N	OD_NM/ RGFM_2	5035FP_	STEX_GO	OD_Calc						Number	. Ciliboi		
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	<u> </u>	S=Solid, O=Waste/oil, BT=Tissue, A=Air)	Perfo		8021B		00 10181						Tatal	IOLLI	Special I	Special Instructions/Note:
	\setminus	\setminus	Preservation Code:	in Code:	X					ī					$\overline{}$			
FS01 (890-1719-1)	12/14/21	13 58 Mountain		Solid		×	×	×	×						44			
FS02 (890-1719-2)	12/14/21	14 00 Mountain		Solid		×	×	×	<u>×</u>							_		
SW01 (890-1719-3)	12/14/21	14 02 Mountain		Solid		× ×	×	×	×						_		***************************************	
SW02 (890-1719-4)	12/14/21	14 04 Mountain		Solid		×	×	×	×							-		
SW03 (890-1719-5)	12/14/21	14 08 Mountain		Solid		×	×	×	<u>~</u>						_			
SW04 (890-1719-6)	12/14/21	14 11 Mountain		Solid		×	×	×	×									
												-						
						-			-		-	+		_				
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC p	laces the ownership o	fmethod analy	/te & accreditati	on complianc	e upon out	subcon	tract lab	oratorie	s. This	sample	shipmer	nt is fon	varded	under	hain-o	f-cust	ody If the labor	s. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently
attention immediately if all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	e signed Chain of Cust	tody attesting to	said complicar	nce to Eurofin	s Xenco Ll	.C.	ory or o	Her HIS	uctions	Will De	yoylded	Any	rianges	to acc	reditat	on sta	d ed pinous suit	orought to Eurotins Xenco LLC
Possible Hazard Identification Unconfirmed					Sam	Sample Disposal (A fee may be assessed if samples Return To Client Disposal By Lab	le Disposal (A fi Return To Client	(A fe	e may	☐be as	assessed if san Disposal Bv Lab	idifs Bv	ample ab	s are	retai ∆r	tained long Archive For	er than	1 month)
Deliverable Requested 1 II, III IV, Other (specify)	Primary Deliverable Rank	ble Rank 2			Spec	Special Instructions/QC	ruction	IS/QC	Requirements	emen	S	ŀ						
Empty Kit Relinquished by		Date			Time.						<u>s</u>	ethod o	Method of Shipment:	ent:				
Relinquished by Care Que 12 13.7	Date/Time ⁻		S	Company	/Z	ecelwed	₽ª	<i>S,</i>		_	10		Date	Date/Time [,]				Company
Relinquisned by	Date/Time:		2	Company	20	Receivled	\$(,					Date	Date/Time:				Company
Relinquished by	Date/Time [.]		2	Company	Z	Received by	ъy						Date,	Date/Time:				Company
Custody Seals Intact: Custody Seal No A Yes A No					0	Cooler Temperature(s) °C	mperati	re(s) °(and Other Remarks)arks:	ے	4.W	14			٠١٥)	CAL
												ŀ	ł	1	ŀ	-	í	Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Nur

Job Number: 890-1719-1 SDG Number: 31403152.01

List Source: Eurofins Xenco, Carlsbad

Login Number: 1719 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	

1

3

4

11

13

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-1719-1 SDG Number: 31403152.01

Login Number: 1719 List Source: Eurofins Xenco, Midland List Creation: 12/16/21 01:21 PM List Number: 2

Creator: Lowe, Katie

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

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 68242

CONDITIONS

Operator:	OGRID:
MARATHON OIL PERMIAN LLC	372098
990 Town & Country Blvd.	Action Number:
Houston, TX 77024	68242
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	None	2/2/2022