ENSOLUM

September 14, 2022

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

Re: Remediation Work Plan
Leamex 8
Incident Number NAPP2200641724
Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Maverick Natural Resources, LLC (Maverick), has prepared the following Remediation Work Plan (RWP) to document the site assessment and soil sampling activities completed to date and proposes a work plan to address the impacted soil identified at the Leamex 8 (Site). The purpose of the site assessment and soil sampling activities was to delineate the vertical extent of impacted soil resulting from a release of produced water at the Site. The following RWP proposes excavation of the impacted soil in the top 4 feet and installation of a depth to water boring to confirm the Closure Critera at the Site.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit M, Section 24, Township 17 South, Range 33 East, in Lea County, New Mexico (32.816111° N, 103.621202° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On December 20, 2021, a leak from an underground main injection line resulted in the release of approximately 104 barrels (bbls) of produced water into the pasture area where fluids pooled. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; approximately 100 bbls of produced water were recovered. The previous operator (ConocoPhillips Company) reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on December 21, 2021, and submitted a Release Notification Form C-141 (Form C-141) on January 6, 2022. The release was assigned Incident Number NAPP2200641724.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well L-14594, located approximately 0.9 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 180 feet bgs and a total depth of 300 feet bgs. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is an intermittent riverine, located approximately 1,090 feet northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH) - gasoline range organics (GRO) and diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation requirement of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On December 29, 2021 and March 16, 2022, personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. A total of 10 preliminary soil samples (SS01 through SS10) were collected within the release extent at depths ranging from 0.25 feet to 0.5 feet bgs. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS02 through SS07 indicated concentrations of chloride exceeded the Site Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 through SS08, and SS10 indicated chloride concentrations exceeded the reclamation

requirement. Laboratory analytical results for preliminary soil sample SS09 indicated all COC concentrations were compliant with the Site Closure Criteria and reclamation requirement.

Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appeared warranted.

Between March 17 and 22, 2022, delineation activities were conducted at the Site to assess the vertical extent of impacted soil. Potholes PH01 through PH06 were advanced via track mounted backhoe within the release extent in the vicinity of preliminary soil samples SS01, SS02, SS04, SS06, SS08 and SS10. The delineation potholes were advanced to depths ranging from 1-foot to 9 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 9 feet bgs. Soil from the potholes were field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH06 at depths ranging from 1-foot to 9 feet bgs, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria, but exceeded the reclamation requirement for chloride at depths ranging from the ground surface to 3.5 feet bgs. Laboratory analytical results indicated the Site is vertically delineated to the most stringent Table 1 Closure Criteria in all delineation pothole locations. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

While impacted soil has been detected at the ground surface as indicate by preliminary surface soil samples SS02 through SS07 exceeding the Site Closure Criteria, waste containing soil has been identified throughout the release extent to a maximum depth of 3.5 feet bgs as indicated by analytical results in all potholes samples, which concentrations of chloride and/or TPH exceeded the reclamation requirement. As a result, Maverick proposes excavation of impacted and waste-containing soil in the top 4 feet and installation of a depth to water boring to confirm the Closure Critera at the Site.

Maverick requests approval to complete the following remediation activities:

- Excavation of chloride and TPH impacted soil in the top 4 feet. Excavation will proceed laterally until sidewall samples confirm chloride and TPH concentrations are compliant with the reclamation requirement in the top 4 feet.
- Due to the estimated 14,500 square foot size of the excavation, Maverick requests a variance for frequency of excavation confirmation samples. Maverick proposes the frequency of confirmation sampling for the excavation floor to be decreased from every 200 square feet (approximately 73 samples) to every 500 square feet (approximately 29 samples). Each 5-point composite floor sample will represent a 500 square foot area. Sidewall samples will be collected at a frequency of every 200 square feet. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be analyzed for BTEX, TPH, and chloride.
- An estimated 2,500 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility.
- The excavation will be backfilled and recontoured to match pre-existing conditions. The disturbed pasture will be re-seeded with an approved Bureau of Land Management (BLM) seed mixture.

- In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and confirm the applied Closure Criteria, Maverick proposes to complete a depth to water boring within 0.5 miles of the release. The soil boring will be advanced to a depth of approximately 105 feet bgs or until groundwater is encountered. An Ensolum geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for at least 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period, depth to groundwater will be measured or the Ensolum geologist will confirm the boring is dry. The borehole will be properly abandoned following NMOSE plugging and abandonment procedures. Maverick will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent deliverable.

Maverick will complete the excavation activities within 90 days of the date of approval of this RWP by the NMOCD. A report detailing remedial actions will be submitted within 30 days of receipt of laboratory analytical results and completion of drilling activities. The depth to water soil boring will be completed as soon as possible following approval from the surface landowner (New Mexico State Land Office), receipt of the NMOSE drilling permit, and scheduling with a driller, which could impact the time to drill based on availability.

Maverick believes the scope of work described above will meet requirements set forth in 19.15.29.13 NMAC and are protective of human health, the environment, and groundwater. As such, Maverick respectfully requests approval of this RWP from NMOCD.

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

Sincerely,
Ensolum, LLC

Hadlie Green
Staff Geologist

Kalei Jennings
Senior Scientist

cc: Bryce Wagoner, Maverick Natural Resources
New Mexico State Land Office

Appendices:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Lithologic / Soil Sampling Logs
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation

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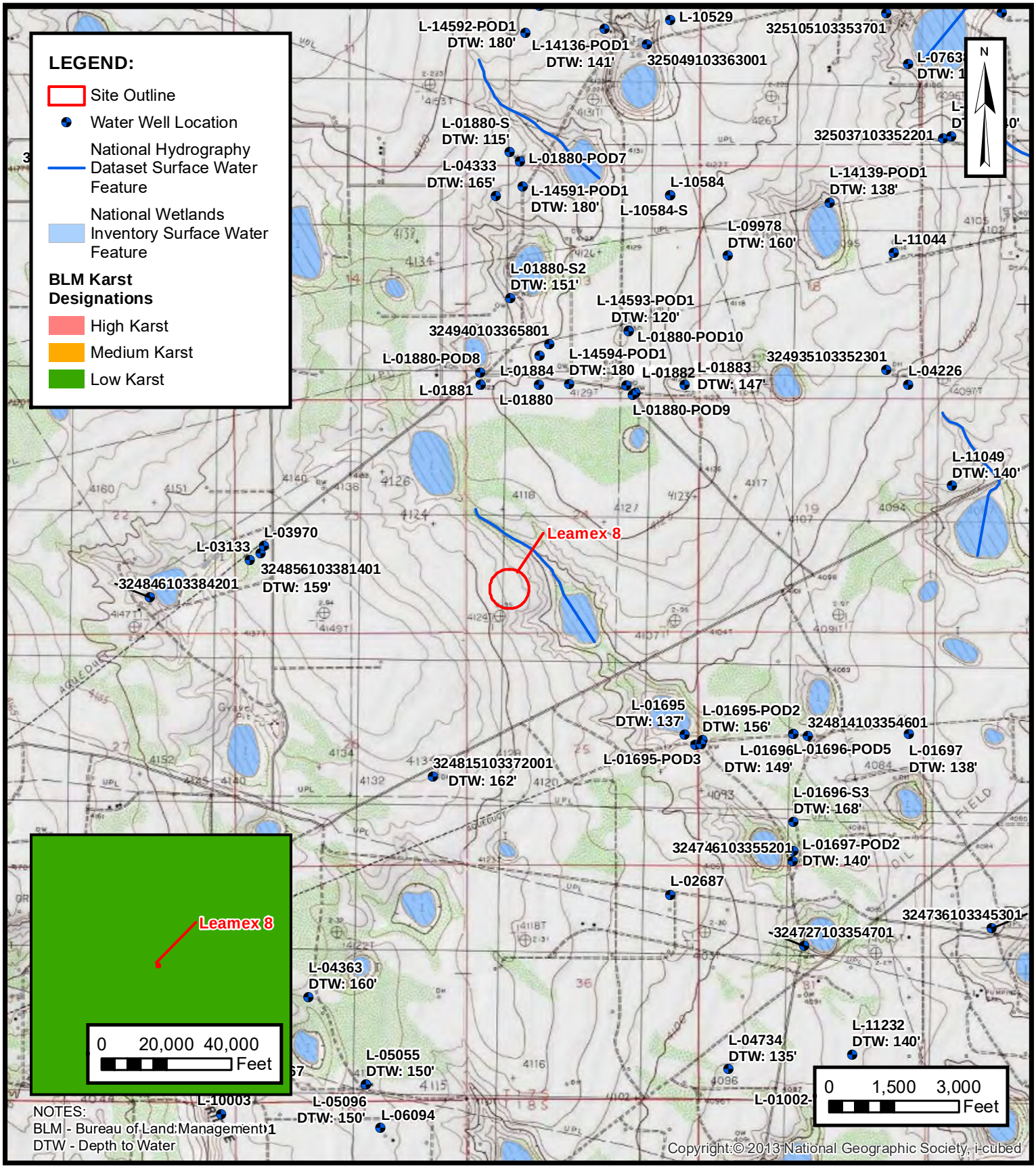
FIGURES



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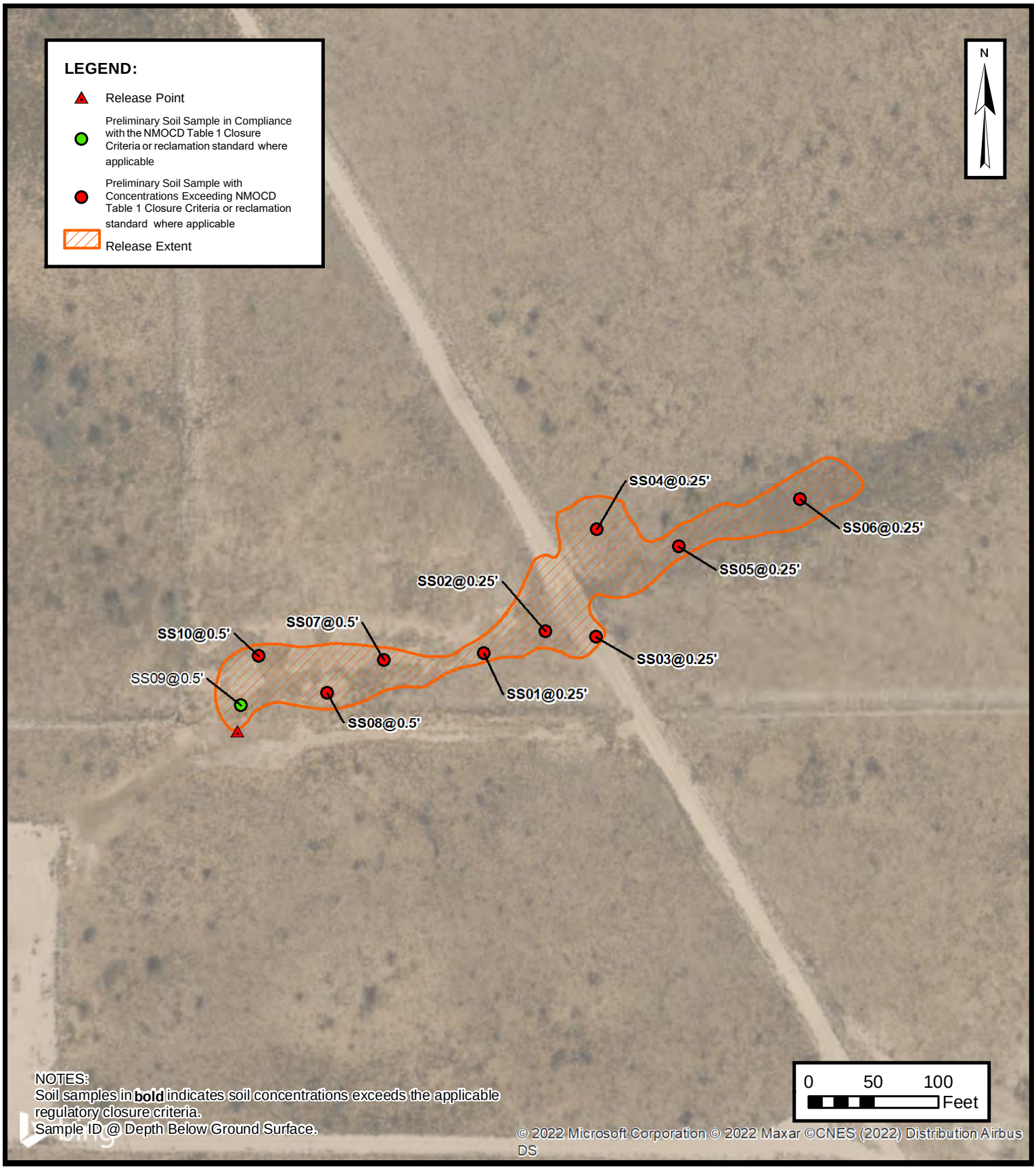
SITE RECEPTOR MAP

MAVERICK NATURAL RESOURCES, LLC
LEAMEX 8
NAPP2200641724
Unit M, Sec 24, T17S, R33E
Lea County, New Mexico

FIGURE
1



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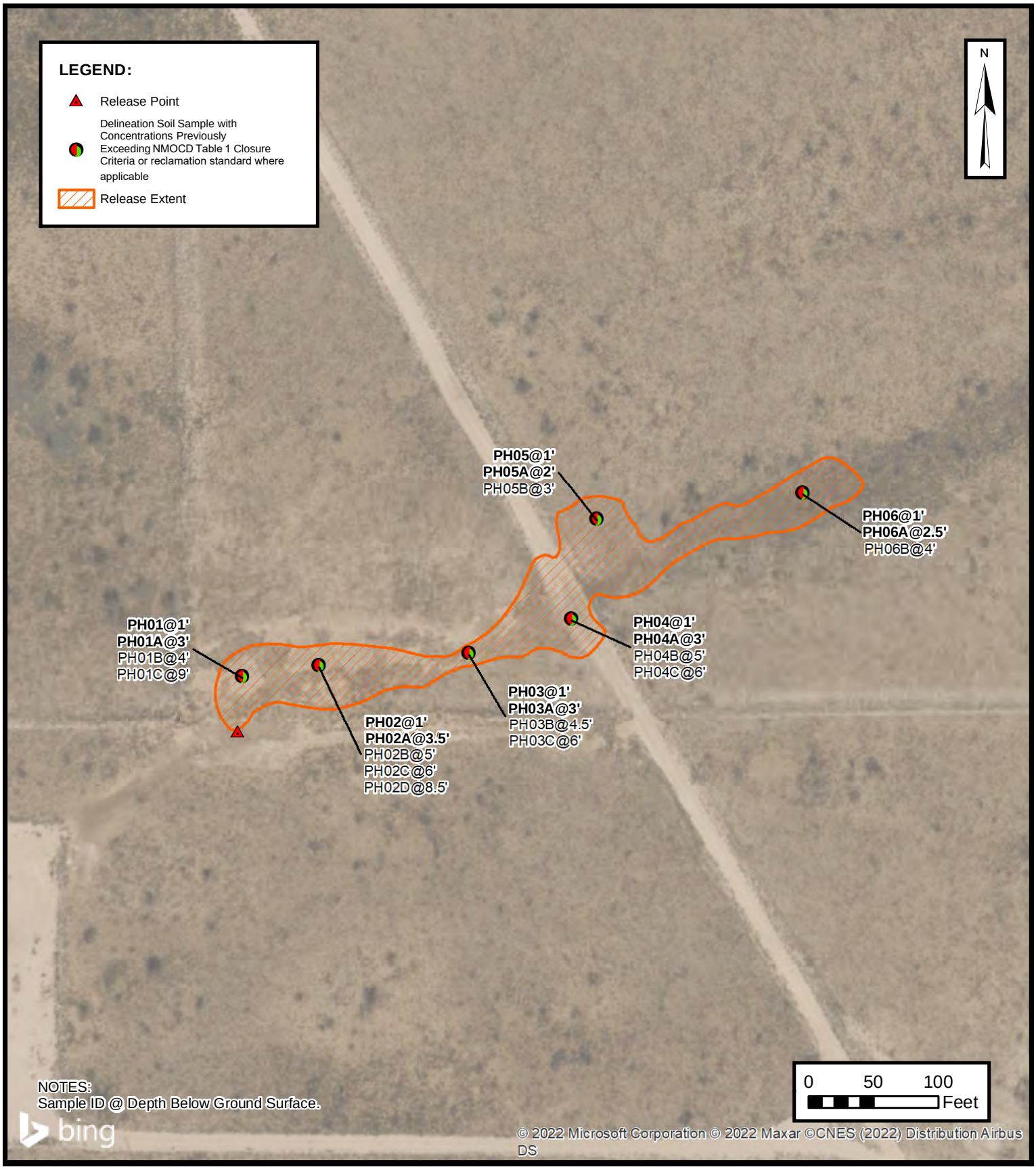
PRELIMINARY SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
LEAMEX 8
NAPP2200641724
Unit M, Sec 24, T17S, R33E
Lea County, New Mexico

FIGURE
2



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DELINEATION SOIL SAMPLE LOCATIONS

MAVERICK NATURAL RESOURCES, LLC
LEAMEX 8
NAPP2200641724
Unit M, Sec 24, T17S, R33E
Lea County, New Mexico

FIGURE
3

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TABLES

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Leamex 8
ConocoPhillips Company
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Assessment Soil Samples										
SS01	12/29/2021	0.25	<0.0402	<0.0805	<49.9	<49.9	<49.9	<49.9	<49.9	19,300*
SS02	12/29/2021	0.25	0.042	0.129	<49.9	<49.9	<49.9	<49.9	<49.9	**29,400***
SS03	12/29/2021	0.25	<0.0402	<0.0803	<50.0	<50.0	<50.0	<50.0	<50.0	**40,500***
SS04	12/29/2021	0.25	<0.0396	<0.0792	<50.0	<50.0	<50.0	<50.0	<50.0	**24,100***
SS05	12/29/2021	0.25	<0.0398	<0.0795	<50.0	<50.0	<50.0	<50.0	<50.0	**31,800***
SS06	12/29/2021	0.25	<0.0398	<0.0795	<49.9	<49.9	<49.9	<49.9	<49.9	**22,400***
SS07	03/16/2022	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	**22,700***
SS08	03/16/2022	0.5	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	17,500*
SS09	03/16/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	21.3*
SS10	03/16/2022	0.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	16,100*
Delineation Soil Samples										
PH01	03/17/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	6,440*
PH01A	03/21/2022	3	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	5,140*
PH01B	03/21/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	2,480
PH01C	03/22/2022	9	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	593
PH02	03/17/2022	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	5,470*
PH02A	03/21/2022	3.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	797*
PH02B	03/21/2022	5	<0.00200	<0.00400	<49.7	<49.7	<49.7	<49.7	<49.7	3,000
PH02C	03/22/2022	6	<0.00198	<0.00396	<50.0	<50.0	71.6	<50.0	71.6	1,810
PH02D	03/22/2022	8.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	67.1
PH03	03/17/2022	1	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	7,450*
PH03A	03/21/2022	3	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	3,250*
PH03B	03/21/2022	4.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,270
PH03C	03/21/2022	6	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	504
PH04	03/17/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	9,160*
PH04A	03/17/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	1,650*
PH04B	03/17/2022	5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	329
PH04C	03/21/2022	6	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	124

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TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Leamex 8
ConocoPhillips Company
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			**10**	**50**	**NE**	**NE**	**NE**	**1,000**	**2,500**	**20,000**
PH05	03/22/2022	1	<0.00200	<0.00401	<49.7	136	<49.7	136	136*	34.7*
PH05A	03/22/2022	2	<0.00200	<0.00401	<50.0	97.8	<50.0	97.8	97.8	68.5*
PH05B	03/22/2022	3	<0.00202	<0.00404	<49.9	63.8	<49.9	63.8	63.8	53.0*
PH06	03/17/2022	1	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	5,580*
PH06A	03/22/2022	2.5	<0.00201	<0.00402	<49.9	73.0	<49.9	73.0	73.0	1,980*
PH06B	03/22/2022	4	<0.00199	<0.00398	<49.8	50.4	<49.8	50.4	50.4	372

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon
* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg
Grey text represents samples that have been excavated

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APPENDIX A

Referenced Well Records

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	Twn	Rng	X	Y
NA	L 14594 POD1	4	4	3	13	17S	33E	629387	3633116

Driller License: 1261 **Driller Company:** DARRELL CRASS DRILLING CO., INC

Driller Name: CRASS, DARRELL

Drill Start Date: 02/25/2019 **Drill Finish Date:** 02/28/2019 **Plug Date:**

Log File Date: 05/13/2019 **PCW Rcv Date:** **Source:** Shallow

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

Casing Size: 8.62 **Depth Well:** 300 feet **Depth Water:** 180 feet

Water Bearing Stratifications:	Top	Bottom	Description
	180	200	Sandstone/Gravel/Conglomerate
	200	240	Sandstone/Gravel/Conglomerate
	240	260	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	160	260

National Water Information System: Web Interface

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

Click to hideNews Bulletins

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

USGS 324856103381401 17S.33E.23.313242

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°49'04", Longitude 103°38'24" NAD27
Lea County, New Mexico , Hydrologic Unit 13070007
Well depth: 230 feet
Land surface altitude: 4,144.60 feet above NGVD29.
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1961-03-10	1976-03-02	4
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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

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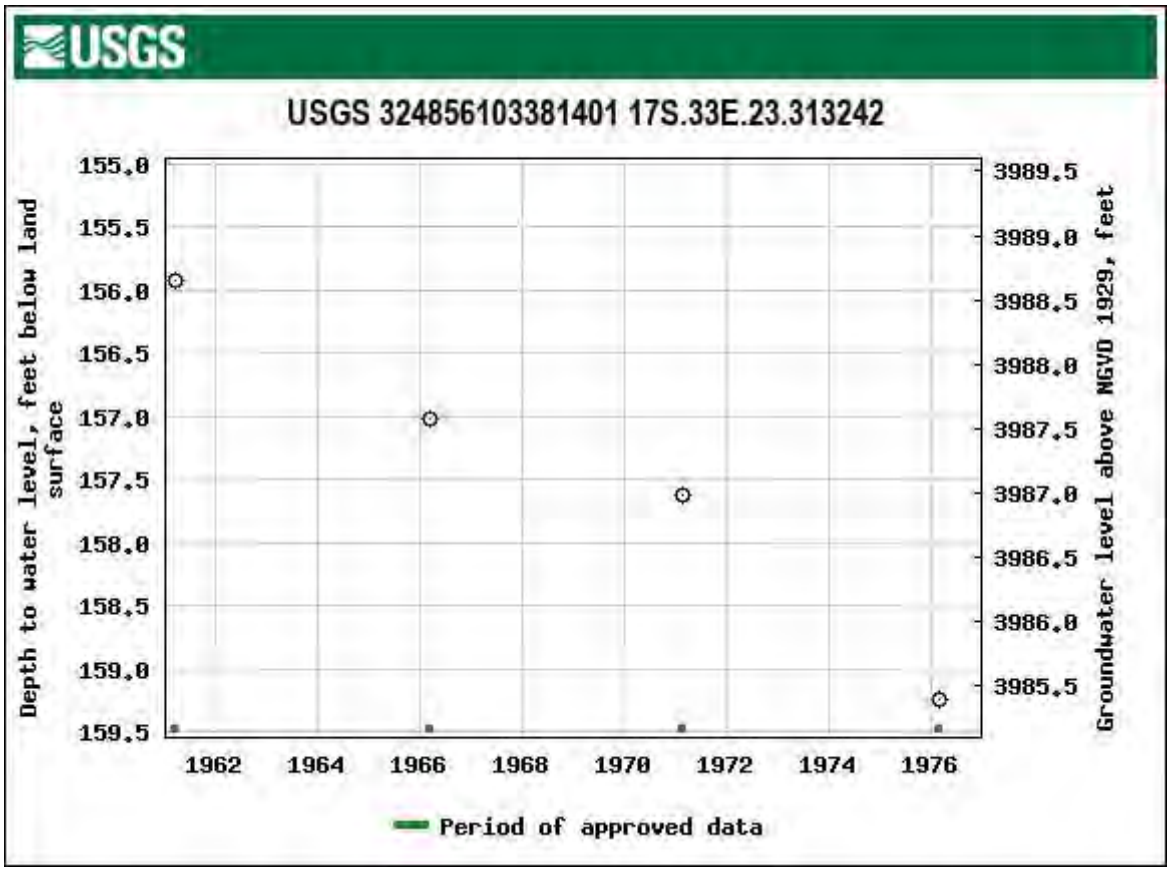
USGS
USGS 324856103381401 17S.33E.23.313242
Depth to water level, feet below land surface
155.0
155.5
156.0
156.5
157.0
157.5
158.0
158.5
159.0
159.5
Groundwater level above NGVD 1929, feet
3989.5
3989.0
3988.5
3988.0
3987.5
3987.0
3986.5
3986.0
3985.5
1962
1964
1966
1968
1970
1972
1974
1976
Period of approved data

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APPENDIX B

Photographic Log

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Photographic Log
Maverick Natural Resources, LLC
Leamex 8
Incident Number NAPP2200641724

Photograph 1
Date: December 29, 2021
Description: Photo of release extent taken during initial assessment.

Photograph 2
Date: December 29, 2021
Description: Photo of release extent taken during initial assessment.

Photograph 3
Date: March 17, 2022
Description: Photo of PH01 taken during delineation activities.

Photograph 4
Date: March 22, 2022
Description: Photo of PH05 taken during delineation activities.

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APPENDIX C

Lithologic Soil Sampling Logs

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	Sample Name: **PH01**	Date: **03/17-22/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8158335, -103.6221005**	Hole Diameter: NA	Total Depth: **10'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	11,536	0.0	N	PH01	1	1	CCHE	CALICHE, dark brown, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D	14,604	0.2	N			2	CCHE	SAA, more white sand.
D	9,184	0.0	N	PH01A	3	3	CCHE	SAA
D	4,183	0.0	N	PH01B	4	4	CCHE	SAA, light tan-brown.
D	6,787	0.0	N			5	CCHE	SAA, light tan-gray.
D	3,354	0.0	N			6	CCHE	SAA
D			N			7	CCHE	SAA, more silt and sand, less caliche gravel.
D	4,944	0.0	N			8	SP-SM	SAND, light tan, abundant sil and caliche gravel, small to large angular clasts, poorly sorted, poorly graded, fine grain, no stain, no odor.
D	683.2	0.0	N	PH01C	9	9	SP-SM	SAA
						10		

TD @ 9 feet bgs

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	Sample Name: **PH02**	Date: **03/17-22/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8158430, -103.6219262**	Hole Diameter: NA	Total Depth: **8.5'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	9,906	0.1	N	PH02	1	1	CCHE	CALICHE, dark brown, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D			N			2	CCHE	SAA, more white sand.
D			N			3	CCHE	SAA
	11,536	0.0	N	PH02A	3.5	3.5	CCHE	CALICHE, light tan-dark brown, abundant silt and sand, smaller angular clasts, poorly graded,
D			N		4	4	CCHE	poorly sorted, no stain, no odor.
D	4,944	0.0	N	PH02B	5	5	CCHE	SAA
D	3,505	0.0	N			5.5	CCHE	SAA, light gray-tan.
D	3,830	0.0	N	PH02C	6	6	CCHE	SAA
D			N			7	CCHE	SAA, more silt and sand, less caliche gravel.
D	896	0.0	N			8	SP-SM	SAND, light tan, abundant sil and caliche gravel, small to large angular clasts, poorly sorted, poorly graded, fine grain, no stain, no odor.
D	<179.2	0.0	N	PH02D	8.5	8.5	SP-SM	SAA

TD @ 8.5 feet bgs

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	Sample Name: **PH03**	Date: **03/17-21/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8158711, -103.6215582**	Hole Diameter: NA	Total Depth: **6'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	14,604	0.2	N	PH03	1	1	CCHE	CALICHE, light tan, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D			N			2	CCHE	SAA, more white sand.
D	5,807	0.1	N	PH03A	3	3	CCHE	SAA
D			N		4	4	CCHE	SAA
D	2,895	0.0	N	PH03B	4.5	4.5		
D			N			5	CCHE	SAA
D	1,058	0.0	N			5.5	CCHE	SAA, light tan-white.
D	1,646	0.0	N	PH03C	6	6	CCHE	SAA

TD @ 6 feet bgs

ENSOLUM

	Sample Name: **PH04**	Date: **03/17-21/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8159417, -103.6213032**	Hole Diameter: NA	Total Depth: **6'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	14,604	0.1	N	PH04	1	1	CCHE	CALICHE, dark brown, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D	7,901	0.0	N			2	CCHE	SAA
D	7,901	0.0	N			2.5	CCHE	SAA
D	4,944	0.0	N	PH04A	3	3	CCHE	SAA, white-light tan, trace roots.
D	1,657	0.0	N			4	CCHE	SAA, no roots.
D	560	0.0	N	PH04B	5	5	CCHE	SAA, smaller caliche gravel, more silt and sand.
D	212.8	0.0	N	PH04C	6	6	CCHE	CALICHE, white-light tan, abundant silt and sand, abundant angular caliche gravel, poorly sorted, fine grain, poorly graded, no stain, no odor.

TD @ 6 feet bgs

ENSOLUM

	Sample Name: **PH05**	Date: **03/22/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8161432, -103.6212427**	Hole Diameter: NA	Total Depth: **3'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	<179.2	0.6	N	PH05	1	1	CCHE	CALICHE, dark brown, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D	<179.2	0.3	N	PH05A	2	2	CCHE	SAA, gray-brown, smaller caliche gravel.
D	<179.2	0.1	N	PH05B	3	3	CCHE	SAA

TD @ 3 feet bgs

ENSOLUM

	Sample Name: **PH06**	Date: **03/17-22/2022**
	Site Name: **Leamex 8 Battery**	
	Incident Number: **NAPP2200641724**	
	Job Number: 03D2024027	
LITHOLOGIC / SOIL SAMPLING LOG	Logged By: HG	Method: **Backhoe**
Coordinates: **32.8162023, -103.6207270**	Hole Diameter: NA	Total Depth: **4'**

Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. No correction factors included.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions
						0		
D	7,901	0.3	N	PH06	1	1	CCHE	CALICHE, dark brown, abundant silt and sand, large angular caliche clasts, fine grain, poorly sorted, poorly graded, no stain, no odor.
D	7.901	0.1	N			1.5	CCHE	SAA
D			N			2	CCHE	SAA
D	3,063	0.0	N	PH06A	2.5	2.5	CCHE	SAA, light tan-brown.
D			N			3	CCHE	SAA
D			N			3.5	CCHE	SAA
D	442	0.0	N	PH06B	4	4	CCHE	SAA

TD @ 4 feet bgs

ENSOLUM

APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1782-1
Laboratory Sample Delivery Group: 31403720.000 task 27.02
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
1/7/2022 11:12:32 AM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Job ID: 890-1782-1

Laboratory: Eurofins Xenco

Narrative

Job Narrative
890-1782-1

Receipt
The samples were received on 12/29/2021 3:28 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 1.0°C

GC VOA
Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS01 (890-1782-1) and SS02 (890-1782-2) at 20.0 and 20.0. Elevated reporting limits (RLs) are provided.

Method 8021B: 4-Bromofluorobenzene recovery for the following samples were outside control limits: SS01 (890-1782-1) and SS02 (890-1782-2). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: The following samples were diluted due to the nature of the sample matrix: SS03 (890-1782-3), SS04 (890-1782-4), SS05 (890-1782-5) and SS06 (890-1782-6) at 20.0, 20.0, 20.0 and 20.0. Elevated reporting limits (RLs) are provided.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15881 and analytical batch 880-15940 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15882 and analytical batch 880-15874 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: Surrogate recovery for the following samples were outside control limits: SS01 (890-1782-1), SS02 (890-1782-2), SS03 (890-1782-3), SS04 (890-1782-4), SS05 (890-1782-5) and SS06 (890-1782-6). Evidence of matrix interferences is not obvious.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Client Sample ID: SS01

Lab Sample ID: 890-1782-1
Matrix: Solid
Date Collected: 12/29/21 08:58
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Toluene	**0.0719**		0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Ethylbenzene	<0.0402	U	0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:22	20
m-Xylene & p-Xylene	<0.0805	U	0.0805		mg/Kg		01/03/22 10:15	01/04/22 00:22	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:22	20
Xylenes, Total	<0.0805	U	0.0805		mg/Kg		01/03/22 10:15	01/04/22 00:22	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/03/22 10:15*	*01/04/22 00:22*	*20*
1,4-Difluorobenzene (Surr)	*87*		*70 - 130*	*01/03/22 10:15*	*01/04/22 00:22*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0805	U	0.0805		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	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	49.9		mg/Kg		01/03/22 10:55	01/03/22 22:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/03/22 22:51	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/03/22 22:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*165*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 22:51*	*1*
o-Terphenyl	*166*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 22:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**19300**		99.0		mg/Kg			01/04/22 15:40	20

Client Sample ID: SS02

Lab Sample ID: 890-1782-2
Matrix: Solid
Date Collected: 12/29/21 09:00
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.0417**		0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Toluene	**0.0874**		0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Ethylbenzene	<0.0402	U	0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:43	20
m-Xylene & p-Xylene	<0.0805	U	0.0805		mg/Kg		01/03/22 10:15	01/04/22 00:43	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		01/03/22 10:15	01/04/22 00:43	20
Xylenes, Total	<0.0805	U	0.0805		mg/Kg		01/03/22 10:15	01/04/22 00:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/03/22 10:15*	*01/04/22 00:43*	*20*

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS02 — Lab Sample ID: 890-1782-2

Date Collected: 12/29/21 09:00 **Matrix: Solid**
Date Received: 12/29/21 15:28
Sample Depth: 0.25

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*89*		*70 - 130*	*01/03/22 10:15*	*01/04/22 00:43*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	**0.129**		0.0805		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	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	49.9		mg/Kg		01/03/22 10:55	01/03/22 23:11	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/03/22 23:11	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/03/22 23:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*140*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:11*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**29400**		250		mg/Kg			01/04/22 10:45	50

Client Sample ID: SS03 — Lab Sample ID: 890-1782-3

Date Collected: 12/29/21 09:02 **Matrix: Solid**
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0402	U	0.0402		mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Toluene	<0.0402	U	0.0402		mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Ethylbenzene	<0.0402	U	0.0402		mg/Kg		01/03/22 16:00	01/04/22 15:23	20
m-Xylene & p-Xylene	<0.0803	U	0.0803		mg/Kg		01/03/22 16:00	01/04/22 15:23	20
o-Xylene	<0.0402	U	0.0402		mg/Kg		01/03/22 16:00	01/04/22 15:23	20
Xylenes, Total	<0.0803	U	0.0803		mg/Kg		01/03/22 16:00	01/04/22 15:23	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*	*01/03/22 16:00*	*01/04/22 15:23*	*20*
1,4-Difluorobenzene (Surr)	*84*		*70 - 130*	*01/03/22 16:00*	*01/04/22 15:23*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0803	U	0.0803		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS03 — Lab Sample ID: 890-1782-3

Date Collected: 12/29/21 09:02 **Matrix: Solid**
Date Received: 12/29/21 15:28
Sample Depth: 0.25

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:32	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:32	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*146*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:32*	*1*
o-Terphenyl	*152*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**40500**		250		mg/Kg			01/04/22 10:52	50

Client Sample ID: SS04 — Lab Sample ID: 890-1782-4

Date Collected: 12/29/21 09:05 **Matrix: Solid**
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0396	U	0.0396		mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Toluene	<0.0396	U	0.0396		mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Ethylbenzene	<0.0396	U	0.0396		mg/Kg		01/03/22 16:00	01/04/22 15:43	20
m-Xylene & p-Xylene	<0.0792	U	0.0792		mg/Kg		01/03/22 16:00	01/04/22 15:43	20
o-Xylene	<0.0396	U	0.0396		mg/Kg		01/03/22 16:00	01/04/22 15:43	20
Xylenes, Total	<0.0792	U	0.0792		mg/Kg		01/03/22 16:00	01/04/22 15:43	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*	*01/03/22 16:00*	*01/04/22 15:43*	*20*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/03/22 16:00*	*01/04/22 15:43*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0792	U	0.0792		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	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	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 23:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*143*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:52*	*1*
o-Terphenyl	*148*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/03/22 23:52*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Client Sample ID: SS04

Lab Sample ID: 890-1782-4
Matrix: Solid
Date Collected: 12/29/21 09:05
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24100**	**F1**	250		mg/Kg			01/04/22 11:00	50

Client Sample ID: SS05

Lab Sample ID: 890-1782-5
Matrix: Solid
Date Collected: 12/29/21 09:08
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Toluene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:04	20
m-Xylene & p-Xylene	<0.0795	U	0.0795		mg/Kg		01/03/22 16:00	01/04/22 16:04	20
o-Xylene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:04	20
Xylenes, Total	<0.0795	U	0.0795		mg/Kg		01/03/22 16:00	01/04/22 16:04	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*01/03/22 16:00*	*01/04/22 16:04*	*20*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/03/22 16:00*	*01/04/22 16:04*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	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	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/04/22 00:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/04/22 00:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/04/22 00:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*138*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/04/22 00:12*	*1*
o-Terphenyl	*144*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/04/22 00:12*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**31800**		250		mg/Kg			01/04/22 11:24	50

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Client Sample ID: SS06

Date Collected: 12/29/21 09:10
Date Received: 12/29/21 15:28
Sample Depth: 0.25

Lab Sample ID: 890-1782-6

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Toluene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Ethylbenzene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:24	20
m-Xylene & p-Xylene	<0.0795	U	0.0795		mg/Kg		01/03/22 16:00	01/04/22 16:24	20
o-Xylene	<0.0398	U	0.0398		mg/Kg		01/03/22 16:00	01/04/22 16:24	20
Xylenes, Total	<0.0795	U	0.0795		mg/Kg		01/03/22 16:00	01/04/22 16:24	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*01/03/22 16:00*	*01/04/22 16:24*	*20*
1,4-Difluorobenzene (Surr)	*90*		*70 - 130*	*01/03/22 16:00*	*01/04/22 16:24*	*20*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.0795	U	0.0795		mg/Kg			01/05/22 13:44	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			01/05/22 14:19	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	49.9		mg/Kg		01/03/22 10:55	01/04/22 00:32	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/04/22 00:32	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/03/22 10:55	01/04/22 00:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*137*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/04/22 00:32*	*1*
o-Terphenyl	*139*	*S1+*	*70 - 130*	*01/03/22 10:55*	*01/04/22 00:32*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22400**		253		mg/Kg			01/04/22 11:32	50

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9761-A-1-F MS	Matrix Spike	105	103
880-9761-A-1-G MSD	Matrix Spike Duplicate	115	112
880-9776-A-1-B MS	Matrix Spike	117	112
880-9776-A-1-C MSD	Matrix Spike Duplicate	112	102
890-1782-1	SS01	107	87
890-1782-2	SS02	115	89
890-1782-3	SS03	112	84
890-1782-4	SS04	116	91
890-1782-5	SS05	111	91
890-1782-6	SS06	113	90
LCS 880-15880/1-A	Lab Control Sample	110	104
LCS 880-15881/1-A	Lab Control Sample	113	105
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99
LCSD 880-15881/2-A	Lab Control Sample Dup	114	104
MB 880-15880/5-A	Method Blank	118	104
MB 880-15881/5-A	Method Blank	123	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1780-A-1-D MS	Matrix Spike	118	113
890-1780-A-1-E MSD	Matrix Spike Duplicate	119	117
890-1782-1	SS01	165 S1+	166 S1+
890-1782-2	SS02	140 S1+	144 S1+
890-1782-3	SS03	146 S1+	152 S1+
890-1782-4	SS04	143 S1+	148 S1+
890-1782-5	SS05	138 S1+	144 S1+
890-1782-6	SS06	137 S1+	139 S1+
LCS 880-15882/2-A	Lab Control Sample	101	84
LCSD 880-15882/3-A	Lab Control Sample Dup	105	87
MB 880-15882/1-A	Method Blank	112	126

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15880/5-A
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15880

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/03/22 10:15	01/03/22 16:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/03/22 10:15	01/03/22 16:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/03/22 10:15	01/03/22 16:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/03/22 10:15*	*01/03/22 16:07*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/03/22 10:15*	*01/03/22 16:07*	*1*

Lab Sample ID: LCS 880-15880/1-A
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15880

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.07590		mg/Kg		76	70 - 130		
Toluene			0.100	0.08444		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08959		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1803		mg/Kg		90	70 - 130		
o-Xylene			0.100	0.08893		mg/Kg		89	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 880-15880/2-A
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15880

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07867		mg/Kg		79	70 - 130	4	35
Toluene			0.100	0.07724		mg/Kg		77	70 - 130	9	35
Ethylbenzene			0.100	0.08677		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.1679		mg/Kg		84	70 - 130	7	35
o-Xylene			0.100	0.08165		mg/Kg		82	70 - 130	9	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: 880-9761-A-1-F MS
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00200	U	0.0990	0.06999		mg/Kg		71	70 - 130		
Toluene	<0.00200	U	0.0990	0.07015		mg/Kg		71	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

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

Lab Sample ID: 880-9761-A-1-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 15550 — **Prep Batch: 15880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0990	0.07018		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.1314	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U	0.0990	0.06933		mg/Kg		70	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 880-9761-A-1-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 15550 — **Prep Batch: 15880**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.100	0.07134		mg/Kg		71	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07064		mg/Kg		71	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07258		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1504		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00200	U	0.100	0.07389		mg/Kg		74	70 - 130	6	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: MB 880-15881/5-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 15940 — **Prep Batch: 15881**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/03/22 16:00	01/04/22 12:52	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/03/22 16:00	01/04/22 12:52	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/03/22 16:00	01/04/22 12:52	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/03/22 16:00	01/04/22 12:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*	*01/03/22 16:00*	*01/04/22 12:52*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/03/22 16:00*	*01/04/22 12:52*	*1*

Lab Sample ID: LCS 880-15881/1-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 15940 — **Prep Batch: 15881**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07225		mg/Kg		72	70 - 130
Toluene	0.100	0.07317		mg/Kg		73	70 - 130
Ethylbenzene	0.100	0.08304		mg/Kg		83	70 - 130
m-Xylene & p-Xylene	0.200	0.1620		mg/Kg		81	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

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

Lab Sample ID: LCS 880-15881/1-A
Matrix: Solid
Analysis Batch: 15940

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15881

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
o-Xylene			0.100	0.08231		mg/Kg		82	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 880-15881/2-A
Matrix: Solid
Analysis Batch: 15940

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15881

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07039		mg/Kg		70	70 - 130	3	35
Toluene			0.100	0.07719		mg/Kg		77	70 - 130	5	35
Ethylbenzene			0.100	0.08395		mg/Kg		84	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.1671		mg/Kg		84	70 - 130	3	35
o-Xylene			0.100	0.08181		mg/Kg		82	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 880-9776-A-1-B MS
Matrix: Solid
Analysis Batch: 15940

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15881

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00201	U F1	0.101	0.06410	F1	mg/Kg		63	70 - 130		
Toluene	<0.00201	U F1	0.101	0.07526		mg/Kg		75	70 - 130		
Ethylbenzene	<0.00201	U	0.101	0.07811		mg/Kg		77	70 - 130		
m-Xylene & p-Xylene	<0.00402	U	0.202	0.1524		mg/Kg		75	70 - 130		
o-Xylene	<0.00201	U	0.101	0.07818		mg/Kg		77	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-9776-A-1-C MSD
Matrix: Solid
Analysis Batch: 15940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15881

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U F1	0.101	0.05875	F1	mg/Kg		58	70 - 130	9	35
Toluene	<0.00201	U F1	0.101	0.06520	F1	mg/Kg		65	70 - 130	14	35
Ethylbenzene	<0.00201	U	0.101	0.07257		mg/Kg		72	70 - 130	7	35
m-Xylene & p-Xylene	<0.00402	U	0.201	0.1434		mg/Kg		71	70 - 130	6	35
o-Xylene	<0.00201	U	0.101	0.07200		mg/Kg		72	70 - 130	8	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

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

Lab Sample ID: 880-9776-A-1-C MSD
Matrix: Solid
Analysis Batch: 15940

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15881

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

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

Lab Sample ID: MB 880-15882/1-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15882

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 20:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/03/22 10:55	01/03/22 20:25	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/03/22 10:55	01/03/22 20:25	1
o-Terphenyl	126		70 - 130	01/03/22 10:55	01/03/22 20:25	1

Lab Sample ID: LCS 880-15882/2-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15882

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	861.5		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1101		mg/Kg		110	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	101		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-15882/3-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15882

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	940.4		mg/Kg		94	70 - 130	9	20
Diesel Range Organics (Over C10-C28)			1000	1162		mg/Kg		116	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	87		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

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

Lab Sample ID: 890-1780-A-1-D MS
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	515.1	F1	mg/Kg		50	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	491.8	F1	mg/Kg		49	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*113*		*70 - 130*

Lab Sample ID: 890-1780-A-1-E MSD
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	522.7	F1	mg/Kg		51	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	512.8	F1	mg/Kg		51	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*117*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15878/1-A
Matrix: Solid
Analysis Batch: 15923

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/04/22 08:47	1

Lab Sample ID: LCS 880-15878/2-A
Matrix: Solid
Analysis Batch: 15923

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-15878/3-A
Matrix: Solid
Analysis Batch: 15923

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	246.2		mg/Kg		98	90 - 110	0	20

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1782-4 MS
Matrix: Solid
Analysis Batch: 15923

Client Sample ID: SS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	24100	F1	12500	34400	F1	mg/Kg		82	90 - 110		

Lab Sample ID: 890-1782-4 MSD
Matrix: Solid
Analysis Batch: 15923

Client Sample ID: SS04
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	24100	F1	12500	35910		mg/Kg		94	90 - 110	4	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8021B	15880
890-1782-2	SS02	Total/NA	Solid	8021B	15880
MB 880-15880/5-A	Method Blank	Total/NA	Solid	8021B	15880
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	8021B	15880
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15880
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	15880
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	5035	
890-1782-2	SS02	Total/NA	Solid	5035	
MB 880-15880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 15881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-3	SS03	Total/NA	Solid	5035	
890-1782-4	SS04	Total/NA	Solid	5035	
890-1782-5	SS05	Total/NA	Solid	5035	
890-1782-6	SS06	Total/NA	Solid	5035	
MB 880-15881/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9776-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-9776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 15940

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-3	SS03	Total/NA	Solid	8021B	15881
890-1782-4	SS04	Total/NA	Solid	8021B	15881
890-1782-5	SS05	Total/NA	Solid	8021B	15881
890-1782-6	SS06	Total/NA	Solid	8021B	15881
MB 880-15881/5-A	Method Blank	Total/NA	Solid	8021B	15881
LCS 880-15881/1-A	Lab Control Sample	Total/NA	Solid	8021B	15881
LCSD 880-15881/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15881
880-9776-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	15881
880-9776-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15881

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	Total BTEX	
890-1782-2	SS02	Total/NA	Solid	Total BTEX	
890-1782-3	SS03	Total/NA	Solid	Total BTEX	
890-1782-4	SS04	Total/NA	Solid	Total BTEX	
890-1782-5	SS05	Total/NA	Solid	Total BTEX	
890-1782-6	SS06	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

GC Semi VOA

Analysis Batch: 15874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015B NM	15882
890-1782-2	SS02	Total/NA	Solid	8015B NM	15882
890-1782-3	SS03	Total/NA	Solid	8015B NM	15882
890-1782-4	SS04	Total/NA	Solid	8015B NM	15882
890-1782-5	SS05	Total/NA	Solid	8015B NM	15882
890-1782-6	SS06	Total/NA	Solid	8015B NM	15882
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015B NM	15882
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15882
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15882
890-1780-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	15882
890-1780-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15882

Prep Batch: 15882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015NM Prep	
890-1782-2	SS02	Total/NA	Solid	8015NM Prep	
890-1782-3	SS03	Total/NA	Solid	8015NM Prep	
890-1782-4	SS04	Total/NA	Solid	8015NM Prep	
890-1782-5	SS05	Total/NA	Solid	8015NM Prep	
890-1782-6	SS06	Total/NA	Solid	8015NM Prep	
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1780-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1780-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Total/NA	Solid	8015 NM	
890-1782-2	SS02	Total/NA	Solid	8015 NM	
890-1782-3	SS03	Total/NA	Solid	8015 NM	
890-1782-4	SS04	Total/NA	Solid	8015 NM	
890-1782-5	SS05	Total/NA	Solid	8015 NM	
890-1782-6	SS06	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Soluble	Solid	DI Leach	
890-1782-2	SS02	Soluble	Solid	DI Leach	
890-1782-3	SS03	Soluble	Solid	DI Leach	
890-1782-4	SS04	Soluble	Solid	DI Leach	
890-1782-5	SS05	Soluble	Solid	DI Leach	
890-1782-6	SS06	Soluble	Solid	DI Leach	
MB 880-15878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1782-4 MS	SS04	Soluble	Solid	DI Leach	
890-1782-4 MSD	SS04	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

HPLC/IC

Analysis Batch: 15923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1782-1	SS01	Soluble	Solid	300.0	15878
890-1782-2	SS02	Soluble	Solid	300.0	15878
890-1782-3	SS03	Soluble	Solid	300.0	15878
890-1782-4	SS04	Soluble	Solid	300.0	15878
890-1782-5	SS05	Soluble	Solid	300.0	15878
890-1782-6	SS06	Soluble	Solid	300.0	15878
MB 880-15878/1-A	Method Blank	Soluble	Solid	300.0	15878
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	300.0	15878
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15878
890-1782-4 MS	SS04	Soluble	Solid	300.0	15878
890-1782-4 MSD	SS04	Soluble	Solid	300.0	15878

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS01 — Lab Sample ID: 890-1782-1

Date Collected: 12/29/21 08:58 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15550	01/04/22 00:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 22:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		20			15923	01/04/22 15:40	CH	XEN MID

Client Sample ID: SS02 — Lab Sample ID: 890-1782-2

Date Collected: 12/29/21 09:00 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15550	01/04/22 00:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 10:45	CH	XEN MID

Client Sample ID: SS03 — Lab Sample ID: 890-1782-3

Date Collected: 12/29/21 09:02 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 15:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:32	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 10:52	CH	XEN MID

Client Sample ID: SS04 — Lab Sample ID: 890-1782-4

Date Collected: 12/29/21 09:05 **Matrix: Solid**
Date Received: 12/29/21 15:28

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	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 15:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID

Eurofins Xenco

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Client Sample ID: SS04 Lab Sample ID: 890-1782-4

Date Collected: 12/29/21 09:05 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/03/22 23:52	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:00	CH	XEN MID

Client Sample ID: SS05 Lab Sample ID: 890-1782-5

Date Collected: 12/29/21 09:08 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 16:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/04/22 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:24	CH	XEN MID

Client Sample ID: SS06 Lab Sample ID: 890-1782-6

Date Collected: 12/29/21 09:10 **Matrix: Solid**
Date Received: 12/29/21 15:28

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	15881	01/03/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		20	5 mL	5 mL	15940	01/04/22 16:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1			15874	01/04/22 00:32	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		50			15923	01/04/22 11:32	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

Laboratory: Eurofins Xenco

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 890-1782-1
Project/Site: Leamex 8 Battery SDG: 31403720.000 task 27.02

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 890-1782-1
SDG: 31403720.000 task 27.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1782-1	SS01	Solid	12/29/21 08:58	12/29/21 15:28	0.25
890-1782-2	SS02	Solid	12/29/21 09:00	12/29/21 15:28	0.25
890-1782-3	SS03	Solid	12/29/21 09:02	12/29/21 15:28	0.25
890-1782-4	SS04	Solid	12/29/21 09:05	12/29/21 15:28	0.25
890-1782-5	SS05	Solid	12/29/21 09:08	12/29/21 15:28	0.25
890-1782-6	SS06	Solid	12/29/21 09:10	12/29/21 15:28	0.25

Chain of Custody

Work Order No: _____

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page 1 of 1

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

Work Order Comments

Program: UST/PST ☐RP ☐rownfields ☐RC ☐perfund ☐
State of Project:
Reporting:Level II ☐evel III ☐T/UST ☐RP L☐vel IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Leamex 8 Battery	Turn Around	
Project Number:	31403720.000 Task 27.02	Routine	✓
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	1.2 / 1.0	Thermometer ID	T-NM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

890-1782 Chain of Custody

Work Order Notes

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	12/29/21	8:58	0.25	1	X	X	X	Discrete
SS02	S	12/29/21	9:00	0.25	1	X	X	X	Discrete
SS03	S	12/29/21	9:02	0.25	1	X	X	X	Discrete
SS04	S	12/29/21	9:05	0.25	1	X	X	X	Discrete
SS05	S	12/29/21	9:08	0.25	1	X	X	X	Discrete
SS06	S	12/29/21	9:10	0.25	1	X	X	X	Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 pbenner	N. Ortiz	12/29/21 3:26	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1782-1
SDG Number: 31403720.000 task 27.02

Login Number: 1782
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Xenco

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1782-1
SDG Number: 31403720.000 task 27.02

Login Number: 1782
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Xenco
List Creation: 01/03/22 08:30 AM

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12724-1
Laboratory Sample Delivery Group: 32.81611, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:07:26 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Job ID: 880-12724-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12724-1

Receipt
The samples were received on 3/22/2022 12:24 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 2.3°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: Surrogate recovery for the following sample was outside control limits: (LCSD 880-22118/3-A). Evidence of matrix interferences is not obvious.

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Client Sample ID: SS07

Lab Sample ID: 880-12724-1
Matrix: Solid
Date Collected: 03/16/22 11:00
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 17:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/23/22 10:00	03/23/22 17:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 17:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/23/22 10:00	03/23/22 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*03/23/22 10:00*	*03/23/22 17:44*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*03/23/22 10:00*	*03/23/22 17:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/24/22 16:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/22 12:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 17:52	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 17:52	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 17:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*03/22/22 14:00*	*03/22/22 17:52*	*1*
o-Terphenyl	*100*		*70 - 130*	*03/22/22 14:00*	*03/22/22 17:52*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22700**	**F1**	249		mg/Kg			03/31/22 12:02	50

Client Sample ID: SS08

Lab Sample ID: 880-12724-2
Matrix: Solid
Date Collected: 03/16/22 11:02
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/23/22 10:00	03/23/22 18:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/23/22 10:00	03/23/22 18:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/23/22 10:00	03/23/22 18:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/23/22 10:00	03/23/22 18:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*171*	*S1+*	*70 - 130*	*03/23/22 10:00*	*03/23/22 18:05*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Client Sample ID: SS08 Lab Sample ID: 880-12724-2

Date Collected: 03/16/22 11:02 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*97*		*70 - 130*	*03/23/22 10:00*	*03/23/22 18:05*	*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			03/24/22 16:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:25	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/22/22 14:00	03/22/22 18:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*100*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:13*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**17500**		251	mg/Kg			03/31/22 12:29	50

Client Sample ID: SS09 Lab Sample ID: 880-12724-3

Date Collected: 03/16/22 11:06 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/22 10:00	03/23/22 18:25	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/23/22 10:00	03/23/22 18:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*03/23/22 10:00*	*03/23/22 18:25*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/23/22 10:00*	*03/23/22 18:25*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/24/22 16:34	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/23/22 12:25	1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Client Sample ID: SS09 Lab Sample ID: 880-12724-3

Date Collected: 03/16/22 11:06 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*103*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:33*	*1*
o-Terphenyl	*107*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**21.3**		4.95		mg/Kg			03/31/22 12:38	1

Client Sample ID: SS10 Lab Sample ID: 880-12724-4

Date Collected: 03/16/22 11:10 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 18:46	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/23/22 10:00	03/23/22 18:46	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/23/22 10:00	03/23/22 18:46	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/23/22 10:00	03/23/22 18:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*03/23/22 10:00*	*03/23/22 18:46*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*03/23/22 10:00*	*03/23/22 18:46*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/24/22 16:34	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/22 12:25	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:54*	*1*
o-Terphenyl	*120*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:54*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Client Sample ID: SS10

Date Collected: 03/16/22 11:10
Date Received: 03/22/22 12:24
Sample Depth: 0.5'

Lab Sample ID: 880-12724-4

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	16100		252		mg/Kg			03/31/22 12:47	50

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12724-1	SS07	125	95
880-12724-2	SS08	171 S1+	97
880-12724-3	SS09	125	96
880-12724-4	SS10	121	98
890-2105-A-1-F MS	Matrix Spike	52 S1-	104
890-2105-A-1-G MSD	Matrix Spike Duplicate	98	109
LCS 880-21853/1-A	Lab Control Sample	98	102
LCSD 880-21853/2-A	Lab Control Sample Dup	100	107
MB 880-21853/5-A	Method Blank	120	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12698-A-1-D MS	Matrix Spike	99	90
880-12698-A-1-E MSD	Matrix Spike Duplicate	99	90
880-12724-1	SS07	97	100
880-12724-2	SS08	100	102
880-12724-3	SS09	103	107
880-12724-4	SS10	115	120
LCS 880-22118/2-A	Lab Control Sample	108	113
LCSD 880-22118/3-A	Lab Control Sample Dup	125	133 S1+
MB 880-22118/1-A	Method Blank	93	98

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21853/5-A
Matrix: Solid
Analysis Batch: 22182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21853

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/23/22 07:30	03/23/22 11:09	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/23/22 07:30	03/23/22 11:09	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/23/22 07:30	03/23/22 11:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/23/22 07:30	03/23/22 11:09	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/23/22 07:30	03/23/22 11:09	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/23/22 07:30	03/23/22 11:09	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*03/23/22 07:30*	*03/23/22 11:09*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*03/23/22 07:30*	*03/23/22 11:09*	*1*

Lab Sample ID: LCS 880-21853/1-A
Matrix: Solid
Analysis Batch: 22182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 21853

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1060		mg/Kg		106	70 - 130		
Toluene			0.100	0.08963		mg/Kg		90	70 - 130		
Ethylbenzene			0.100	0.09757		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2096		mg/Kg		105	70 - 130		
o-Xylene			0.100	0.1034		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 880-21853/2-A
Matrix: Solid
Analysis Batch: 22182

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21853

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1111		mg/Kg		111	70 - 130	5	35
Toluene			0.100	0.08944		mg/Kg		89	70 - 130	0	35
Ethylbenzene			0.100	0.09503		mg/Kg		95	70 - 130	3	35
m-Xylene & p-Xylene			0.200	0.2047		mg/Kg		102	70 - 130	2	35
o-Xylene			0.100	0.1019		mg/Kg		102	70 - 130	1	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*

Lab Sample ID: 890-2105-A-1-F MS
Matrix: Solid
Analysis Batch: 22182

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21853

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U	0.0996	0.09756		mg/Kg		98	70 - 130		
Toluene	<0.00202	U	0.0996	0.08866		mg/Kg		89	70 - 130		

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

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

Lab Sample ID: 890-2105-A-1-F MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22182 **Prep Batch: 21853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00202	U	0.0996	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00404	U	0.199	0.2233		mg/Kg		112	70 - 130
o-Xylene	<0.00202	U	0.0996	0.1109		mg/Kg		111	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*52*	*S1-*	*70 - 130*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: 890-2105-A-1-G MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22182 **Prep Batch: 21853**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U	0.100	0.1038		mg/Kg		103	70 - 130	6	35
Toluene	<0.00202	U	0.100	0.08314		mg/Kg		83	70 - 130	6	35
Ethylbenzene	<0.00202	U	0.100	0.08960		mg/Kg		90	70 - 130	12	35
m-Xylene & p-Xylene	<0.00404	U	0.200	0.1934		mg/Kg		97	70 - 130	14	35
o-Xylene	<0.00202	U	0.100	0.09686		mg/Kg		97	70 - 130	14	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 880-22118/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22112 **Prep Batch: 22118**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 08:37	03/22/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 08:37	03/22/22 10:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 08:37	03/22/22 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*03/22/22 08:37*	*03/22/22 10:58*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/22/22 08:37*	*03/22/22 10:58*	*1*

Lab Sample ID: LCS 880-22118/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22112 **Prep Batch: 22118**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	985.6		mg/Kg		99	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1101		mg/Kg		110	70 - 130

Eurofins Midland

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

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

Lab Sample ID: LCS 880-22118/2-A
Matrix: Solid
Analysis Batch: 22112

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22118

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: LCSD 880-22118/3-A
Matrix: Solid
Analysis Batch: 22112

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22118

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	1058		mg/Kg		106	70 - 130	7	20
Diesel Range Organics (Over C10-C28)			1000	1284		mg/Kg		128	70 - 130	15	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	125		70 - 130
o-Terphenyl	133	S1+	70 - 130

Lab Sample ID: 880-12698-A-1-D MS
Matrix: Solid
Analysis Batch: 22112

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22118

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1149		mg/Kg		115	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1090		mg/Kg		108	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	90		70 - 130

Lab Sample ID: 880-12698-A-1-E MSD
Matrix: Solid
Analysis Batch: 22112

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22118

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	1181		mg/Kg		118	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1098		mg/Kg		108	70 - 130	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	90		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12724-1 MS
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: SS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22700	F1	12500	35690		mg/Kg		105	90 - 110		

Lab Sample ID: 880-12724-1 MSD
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: SS07
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22700	F1	12500	33770	F1	mg/Kg		89	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

GC VOA

Prep Batch: 21853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	5035	
880-12724-2	SS08	Total/NA	Solid	5035	
880-12724-3	SS09	Total/NA	Solid	5035	
880-12724-4	SS10	Total/NA	Solid	5035	
MB 880-21853/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21853/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21853/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2105-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2105-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8021B	21853
880-12724-2	SS08	Total/NA	Solid	8021B	21853
880-12724-3	SS09	Total/NA	Solid	8021B	21853
880-12724-4	SS10	Total/NA	Solid	8021B	21853
MB 880-21853/5-A	Method Blank	Total/NA	Solid	8021B	21853
LCS 880-21853/1-A	Lab Control Sample	Total/NA	Solid	8021B	21853
LCSD 880-21853/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21853
890-2105-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	21853
890-2105-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21853

Analysis Batch: 22299

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	Total BTEX	
880-12724-2	SS08	Total/NA	Solid	Total BTEX	
880-12724-3	SS09	Total/NA	Solid	Total BTEX	
880-12724-4	SS10	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015B NM	22118
880-12724-2	SS08	Total/NA	Solid	8015B NM	22118
880-12724-3	SS09	Total/NA	Solid	8015B NM	22118
880-12724-4	SS10	Total/NA	Solid	8015B NM	22118
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015B NM	22118
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22118
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22118
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22118
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22118

Prep Batch: 22118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015NM Prep	
880-12724-2	SS08	Total/NA	Solid	8015NM Prep	
880-12724-3	SS09	Total/NA	Solid	8015NM Prep	
880-12724-4	SS10	Total/NA	Solid	8015NM Prep	
MB 880-22118/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22118/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22118 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22118/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12698-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12698-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Total/NA	Solid	8015 NM	
880-12724-2	SS08	Total/NA	Solid	8015 NM	
880-12724-3	SS09	Total/NA	Solid	8015 NM	
880-12724-4	SS10	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Soluble	Solid	DI Leach	
880-12724-2	SS08	Soluble	Solid	DI Leach	
880-12724-3	SS09	Soluble	Solid	DI Leach	
880-12724-4	SS10	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12724-1 MS	SS07	Soluble	Solid	DI Leach	
880-12724-1 MSD	SS07	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-1	SS07	Soluble	Solid	300.0	22470
880-12724-2	SS08	Soluble	Solid	300.0	22470
880-12724-3	SS09	Soluble	Solid	300.0	22470
880-12724-4	SS10	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-1 MS	SS07	Soluble	Solid	300.0	22470
880-12724-1 MSD	SS07	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Client Sample ID: SS07 Lab Sample ID: 880-12724-1

Date Collected: 03/16/22 11:00 **Matrix: Solid**
Date Received: 03/22/22 12:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 17:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 17:52	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:02	SC	XEN MID

Client Sample ID: SS08 Lab Sample ID: 880-12724-2

Date Collected: 03/16/22 11:02 **Matrix: Solid**
Date Received: 03/22/22 12:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:13	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:29	SC	XEN MID

Client Sample ID: SS09 Lab Sample ID: 880-12724-3

Date Collected: 03/16/22 11:06 **Matrix: Solid**
Date Received: 03/22/22 12:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 12:38	SC	XEN MID

Client Sample ID: SS10 Lab Sample ID: 880-12724-4

Date Collected: 03/16/22 11:10 **Matrix: Solid**
Date Received: 03/22/22 12:24

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	21853	03/23/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22182	03/23/22 18:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22299	03/24/22 16:34	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Client Sample ID: SS10

Date Collected: 03/16/22 11:10
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12724-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22200	03/23/22 12:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22118	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22112	03/22/22 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		50			22721	03/31/22 12:47	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12724-1
Project/Site: Leamex 8 Battery SDG: 32.81611, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12724-1
SDG: 32.81611, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12724-1	SS07	Solid	03/16/22 11:00	03/22/22 12:24	0.5'
880-12724-2	SS08	Solid	03/16/22 11:02	03/22/22 12:24	0.5'
880-12724-3	SS09	Solid	03/16/22 11:06	03/22/22 12:24	0.5'
880-12724-4	SS10	Solid	03/16/22 11:10	03/22/22 12:24	0.5'

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 12724

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Project Manager	Kalei Jennings	Bill to (if different)	Kalei Jennings
Company Name	WSP USA Inc	Company Name	WSP USA Inc
Address	3300 North A Street Bldg 1 Unit 222	Address	
City State ZIP	Midland TX 79705	City State ZIP	
Phone	817-683-2503	Email	kalei.jennings@wsp.com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level (II) Level III ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables EDD (☑) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31403720.000	Routine	☒
Project Location	32.81611, -103.621702	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	2.4/2.3	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-.1
Sample Custody Seals	Yes No (N/A)	Total Containers	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
SS07	SL	3-16-22	11:00	0.5'	1	X	X	X	4oz
SS08	↓	↓	11:02	↓	↓	↓	↓	↓	
SS09			11:06						
SS10			11:10						

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

880-12724 Chain of Custody

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

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Kalei Jennings		3/22/22 12:24	2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12724-1
SDG Number: 32.81611, -103.621202

Login Number: 12724
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12725-1
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:07:26 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12725-1

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12725-1

Receipt
The samples were received on 3/22/2022 12:24 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 2.3°C

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Client Sample ID: PH04

Lab Sample ID: 880-12725-1

Date Collected: 03/17/22 09:17
Matrix: Solid
Date Received: 03/22/22 12:24
Sample Depth: 1'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 22:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 22:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 22:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 12:30*	*03/26/22 22:49*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*03/25/22 12:30*	*03/26/22 22:49*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/22 12:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:13	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:13*	*1*
o-Terphenyl	*100*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9160**		99.0		mg/Kg			03/31/22 12:56	20

Client Sample ID: PH04A

Lab Sample ID: 880-12725-2

Date Collected: 03/17/22 13:23
Matrix: Solid
Date Received: 03/22/22 12:24
Sample Depth: 3'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/25/22 12:30	03/26/22 23:10	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/25/22 12:30	03/26/22 23:10	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/25/22 12:30	03/26/22 23:10	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/25/22 12:30	03/26/22 23:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:10*	*1*

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Client Sample ID: PH04A
Lab Sample ID: 880-12725-2
Date Collected: 03/17/22 13:23
Matrix: Solid
Date Received: 03/22/22 12:24
Sample Depth: 3'

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:10*	*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			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/22 12:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*102*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:33*	*1*
o-Terphenyl	*102*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1650**		24.9		mg/Kg			03/31/22 13:23	5

Client Sample ID: PH04B
Lab Sample ID: 880-12725-3
Date Collected: 03/17/22 14:15
Matrix: Solid
Date Received: 03/22/22 12:24
Sample Depth: 5'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 23:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 23:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:30*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/23/22 12:18	1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Client Sample ID: PH04B — Lab Sample ID: 880-12725-3

Date Collected: 03/17/22 14:15 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 5'

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 14:00	03/22/22 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:54*	*1*
o-Terphenyl	*100*		*70 - 130*	*03/22/22 14:00*	*03/22/22 18:54*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**329**		4.99		mg/Kg			03/31/22 13:31	1

Client Sample ID: PH04C — Lab Sample ID: 880-12725-4

Date Collected: 03/21/22 08:34 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 6'

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:51	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 23:51	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/25/22 12:30	03/26/22 23:51	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/25/22 12:30	03/26/22 23:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:51*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 12:30*	*03/26/22 23:51*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/23/22 12:18	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/22/22 14:00	03/22/22 19:15	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/22/22 14:00	03/22/22 19:15	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/22/22 14:00	03/22/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*03/22/22 14:00*	*03/22/22 19:15*	*1*
o-Terphenyl	*98*		*70 - 130*	*03/22/22 14:00*	*03/22/22 19:15*	*1*

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Client Sample ID: PH04C **Lab Sample ID: 880-12725-4**
Date Collected: 03/21/22 08:34 **Matrix: Solid**
Date Received: 03/22/22 12:24
Sample Depth: 6'

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	124		4.97		mg/Kg			03/31/22 13:40	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12547-A-1-U MS	Matrix Spike	103	110
880-12547-A-1-V MSD	Matrix Spike Duplicate	107	112
880-12725-1	PH04	108	110
880-12725-2	PH04A	106	109
880-12725-3	PH04B	103	108
880-12725-4	PH04C	107	108
LCS 880-22286/1-A	Lab Control Sample	108	112
LCSD 880-22286/2-A	Lab Control Sample Dup	111	111
MB 880-22286/5-A	Method Blank	101	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12699-A-1-D MS	Matrix Spike	108	88
880-12699-A-1-E MSD	Matrix Spike Duplicate	93	76
880-12725-1	PH04	98	100
880-12725-2	PH04A	102	102
880-12725-3	PH04B	99	100
880-12725-4	PH04C	101	98
LCS 880-22119/2-A	Lab Control Sample	121	114
LCSD 880-22119/3-A	Lab Control Sample Dup	120	111
MB 880-22119/1-A	Method Blank	107	112

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22286/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22286

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

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

Lab Sample ID: LCS 880-22286/1-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22286

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

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

Lab Sample ID: LCSD 880-22286/2-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22286

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

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

Lab Sample ID: 880-12547-A-1-U MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22286

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

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

Lab Sample ID: 880-12547-A-1-U MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22286

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

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

Lab Sample ID: 880-12547-A-1-V MSD
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22286

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

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

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

Lab Sample ID: MB 880-22119/1-A
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22119

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/22/22 08:40	03/22/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/22/22 08:40	03/22/22 10:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/22/22 08:40	03/22/22 10:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*03/22/22 08:40*	*03/22/22 10:58*	*1*
o-Terphenyl	*112*		*70 - 130*	*03/22/22 08:40*	*03/22/22 10:58*	*1*

Lab Sample ID: LCS 880-22119/2-A
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22119

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	949.0		mg/Kg		95	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1206		mg/Kg		121	70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

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

Lab Sample ID: LCS 880-22119/2-A
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22119

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	121		70 - 130
o-Terphenyl	114		70 - 130

Lab Sample ID: LCSD 880-22119/3-A
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22119

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	871.9		mg/Kg		87	70 - 130	8	20
Diesel Range Organics (Over C10-C28)			1000	1154		mg/Kg		115	70 - 130	4	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	120		70 - 130
o-Terphenyl	111		70 - 130

Lab Sample ID: 880-12699-A-1-D MS
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22119

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	1048		mg/Kg		105	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1016		mg/Kg		98	70 - 130

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

Lab Sample ID: 880-12699-A-1-E MSD
Matrix: Solid
Analysis Batch: 22114

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22119

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	897.5		mg/Kg		90	70 - 130	15	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	877.6		mg/Kg		84	70 - 130	15	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	76		70 - 130

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12724-A-1-E MS
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22700	F1	12500	35690		mg/Kg		105	90 - 110		

Lab Sample ID: 880-12724-A-1-F MSD
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22700	F1	12500	33770	F1	mg/Kg		89	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

GC VOA

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	5035	
880-12725-2	PH04A	Total/NA	Solid	5035	
880-12725-3	PH04B	Total/NA	Solid	5035	
880-12725-4	PH04C	Total/NA	Solid	5035	
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	5035	
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8021B	22286
880-12725-2	PH04A	Total/NA	Solid	8021B	22286
880-12725-3	PH04B	Total/NA	Solid	8021B	22286
880-12725-4	PH04C	Total/NA	Solid	8021B	22286
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22286/1-A	Lab Control Sample	Total/NA	Solid	8021B	22286
LCSD 880-22286/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22286
880-12547-A-1-U MS	Matrix Spike	Total/NA	Solid	8021B	22286
880-12547-A-1-V MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22286

Analysis Batch: 22491

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	Total BTEX	
880-12725-2	PH04A	Total/NA	Solid	Total BTEX	
880-12725-3	PH04B	Total/NA	Solid	Total BTEX	
880-12725-4	PH04C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015B NM	22119
880-12725-2	PH04A	Total/NA	Solid	8015B NM	22119
880-12725-3	PH04B	Total/NA	Solid	8015B NM	22119
880-12725-4	PH04C	Total/NA	Solid	8015B NM	22119
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015B NM	22119
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22119
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22119
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	22119
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22119

Prep Batch: 22119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015NM Prep	
880-12725-2	PH04A	Total/NA	Solid	8015NM Prep	
880-12725-3	PH04B	Total/NA	Solid	8015NM Prep	
880-12725-4	PH04C	Total/NA	Solid	8015NM Prep	
MB 880-22119/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22119/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

GC Semi VOA (Continued)

Prep Batch: 22119 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22119/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12699-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12699-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Total/NA	Solid	8015 NM	
880-12725-2	PH04A	Total/NA	Solid	8015 NM	
880-12725-3	PH04B	Total/NA	Solid	8015 NM	
880-12725-4	PH04C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Soluble	Solid	DI Leach	
880-12725-2	PH04A	Soluble	Solid	DI Leach	
880-12725-3	PH04B	Soluble	Solid	DI Leach	
880-12725-4	PH04C	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12725-1	PH04	Soluble	Solid	300.0	22470
880-12725-2	PH04A	Soluble	Solid	300.0	22470
880-12725-3	PH04B	Soluble	Solid	300.0	22470
880-12725-4	PH04C	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Client Sample ID: PH04

Date Collected: 03/17/22 09:17
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12725-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 22:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		20			22721	03/31/22 12:56	SC	XEN MID

Client Sample ID: PH04A

Date Collected: 03/17/22 13:23
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12725-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 13:23	SC	XEN MID

Client Sample ID: PH04B

Date Collected: 03/17/22 14:15
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12725-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:31	SC	XEN MID

Client Sample ID: PH04C

Date Collected: 03/21/22 08:34
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12725-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22286	03/25/22 12:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/26/22 23:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22491	03/28/22 13:11	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Client Sample ID: PH04C
Date Collected: 03/21/22 08:34
Date Received: 03/22/22 12:24

Lab Sample ID: 880-12725-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22198	03/23/22 12:18	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22119	03/22/22 14:00	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22114	03/22/22 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:40	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12725-1
Project/Site: Leamex 8 Battery

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12725-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12725-1	PH04	Solid	03/17/22 09:17	03/22/22 12:24	1'
880-12725-2	PH04A	Solid	03/17/22 13:23	03/22/22 12:24	3'
880-12725-3	PH04B	Solid	03/17/22 14:15	03/22/22 12:24	5'
880-12725-4	PH04C	Solid	03/21/22 08:34	03/22/22 12:24	6'

Chain of Custody

XENCO LABORATORIES
Houston TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 12725

www.xenco.com Page 1 of 1

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level ☒ Level II ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☒ ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31453770.000	Routine	☒
Project Location		Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	2.4/2.3	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-1.1
Sample Custody Seals	Yes No N/A	Total Containers.	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH04	SL	3-17-22	09:17	1'	1	X	X	X	
PH04A			13:23	3'					
PH04B			14:15	5'					
PH04C		3-21-22	08:34	6'					

880-12725 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/22/22 12:24	2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12725-1

Login Number: 12725 **List Source: Eurofins Midland**
List Number: 1
Creator: Rodriguez, Leticia

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12798-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:07:56 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12798-1
SDG: 32.816111, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12798-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12798-1

Receipt
The sample was received on 3/23/2022 2:11 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 4.3°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 laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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 duplicate (MSD) recoveries for preparation batch 880-22470 and analytical batch 880-22721 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

Client Sample ID: PH01C

Date Collected: 03/22/22 09:05
Date Received: 03/23/22 14:11
Sample Depth: 9

Lab Sample ID: 880-12798-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/24/22 07:30	03/24/22 11:44	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/24/22 07:30	03/24/22 11:44	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/24/22 07:30	03/24/22 11:44	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/24/22 07:30	03/24/22 11:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/24/22 07:30*	*03/24/22 11:44*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*03/24/22 07:30*	*03/24/22 11:44*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/24/22 16:39	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		03/24/22 08:53	03/24/22 17:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 17:48	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*03/24/22 08:53*	*03/24/22 17:48*	*1*
o-Terphenyl	*106*		*70 - 130*	*03/24/22 08:53*	*03/24/22 17:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**593**		4.95		mg/Kg			03/31/22 13:49	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12798-1	PH01C	104	112
880-12798-1 MS	PH01C	125	105
880-12798-1 MSD	PH01C	103	109
LCS 880-22227/1-A	Lab Control Sample	101	111
LCSD 880-22227/2-A	Lab Control Sample Dup	105	113
MB 880-22227/5-A	Method Blank	102	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12798-1	PH01C	106	106
880-12803-A-1-C MS	Matrix Spike	118	98
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85
LCS 880-22247/2-A	Lab Control Sample	111	105
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88
MB 880-22247/1-A	Method Blank	119	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22227/5-A
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22227

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/24/22 07:30	03/24/22 11:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/24/22 07:30	03/24/22 11:23	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/24/22 07:30	03/24/22 11:23	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/24/22 07:30	03/24/22 11:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/24/22 07:30*	*03/24/22 11:23*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/24/22 07:30*	*03/24/22 11:23*	*1*

Lab Sample ID: LCS 880-22227/1-A
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22227

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.09157		mg/Kg		92	70 - 130		
Toluene			0.100	0.09172		mg/Kg		92	70 - 130		
Ethylbenzene			0.100	0.09572		mg/Kg		96	70 - 130		
m-Xylene & p-Xylene			0.200	0.1969		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.09719		mg/Kg		97	70 - 130		

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

Lab Sample ID: LCSD 880-22227/2-A
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22227

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08966		mg/Kg		90	70 - 130	2	35
Toluene			0.100	0.08916		mg/Kg		89	70 - 130	3	35
Ethylbenzene			0.100	0.09231		mg/Kg		92	70 - 130	4	35
m-Xylene & p-Xylene			0.200	0.1911		mg/Kg		96	70 - 130	3	35
o-Xylene			0.100	0.09426		mg/Kg		94	70 - 130	3	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 880-12798-1 MS
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: PH01C
Prep Type: Total/NA
Prep Batch: 22227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U	0.0998	0.1087		mg/Kg		109	70 - 130		
Toluene	<0.00198	U	0.0998	0.09832		mg/Kg		98	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12798-1 MS
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: PH01C
Prep Type: Total/NA
Prep Batch: 22227

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U	0.0998	0.1010		mg/Kg		101	70 - 130
m-Xylene & p-Xylene	<0.00396	U	0.200	0.2547		mg/Kg		127	70 - 130
o-Xylene	<0.00198	U	0.0998	0.1181		mg/Kg		118	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: 880-12798-1 MSD
Matrix: Solid
Analysis Batch: 22236

Client Sample ID: PH01C
Prep Type: Total/NA
Prep Batch: 22227

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0990	0.08779		mg/Kg		89	70 - 130	21	35
Toluene	<0.00198	U	0.0990	0.08896		mg/Kg		89	70 - 130	10	35
Ethylbenzene	<0.00198	U	0.0990	0.09661		mg/Kg		97	70 - 130	4	35
m-Xylene & p-Xylene	<0.00396	U	0.198	0.1949		mg/Kg		98	70 - 130	27	35
o-Xylene	<0.00198	U	0.0990	0.1062		mg/Kg		107	70 - 130	11	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*
o-Terphenyl	*124*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*

Lab Sample ID: LCS 880-22247/2-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10			1000	769.8		mg/Kg		77	70 - 130
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130

Eurofins Midland

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: LCS 880-22247/2-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22247

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	105		70 - 130

Lab Sample ID: LCSD 880-22247/3-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	671.6	*-	mg/Kg		67	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	918.7		mg/Kg		92	70 - 130	17	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	95		70 - 130
o-Terphenyl	88		70 - 130

Lab Sample ID: 880-12803-A-1-C MS
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1227		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1212		mg/Kg		119	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	118		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 880-12803-A-1-D MSD
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	999	1018		mg/Kg		99	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1064		mg/Kg		104	70 - 130	13	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	85		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12724-A-1-E MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	22700	F1	12500	35690		mg/Kg		105	90 - 110		

Lab Sample ID: 880-12724-A-1-F MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	22700	F1	12500	33770	F1	mg/Kg		89	90 - 110	6	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22227

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	5035	
MB 880-22227/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22227/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22227/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12798-1 MS	PH01C	Total/NA	Solid	5035	
880-12798-1 MSD	PH01C	Total/NA	Solid	5035	

Analysis Batch: 22236

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8021B	22227
MB 880-22227/5-A	Method Blank	Total/NA	Solid	8021B	22227
LCS 880-22227/1-A	Lab Control Sample	Total/NA	Solid	8021B	22227
LCSD 880-22227/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22227
880-12798-1 MS	PH01C	Total/NA	Solid	8021B	22227
880-12798-1 MSD	PH01C	Total/NA	Solid	8021B	22227

Analysis Batch: 22301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22320

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

HPLC/IC (Continued)

Leach Batch: 22470 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12798-1	PH01C	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12724-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12724-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

Client Sample ID: PH01C
Date Collected: 03/22/22 09:05
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12798-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22227	03/24/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22236	03/24/22 11:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22301	03/24/22 16:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22320	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 13:49	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12798-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12798-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12798-1	PH01C	Solid	03/22/22 09:05	03/23/22 14:11	9

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 12798

www xenco com Page 1 of 1

Project Manager	Kalei Jennings	Bill to (if different)	Kalei Jennings
Company Name	WSP USA Inc	Company Name	WSP USA Inc
Address	3300 North A Street, Bldg 1, Unit 222	Address	
City, State ZIP	Midland TX 79705	City State ZIP	
Phone	817-683-2503 Email		kalei jennings@wsp com

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level I (II) ☐ Level III ☐ PST/USTT ☐ TRRP ☐ Level IV ☐
Deliverables EDD (✓) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31403720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY
PO #			

SAMPLE RECEIPT				
Temp Blank	Yes (No)	Wet Ice	(Yes) No	
Temperature (°C)	4.4/4.3	Thermometer ID	IR8	
Received Intact	(Yes) No			
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.1	
Sample Custody Seals	Yes No (N/A)	Total Containers		

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH01C	SL	3-22-22	0905	9	1	X	X	X	

880-12798 Chain of Custody

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

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1	Hadlie Green		3/23/22 14 11	2		
3				4		
5				6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12798-1
SDG Number: 32.816111, -103.621202

Login Number: 12798
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12799-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:08:17 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12799-1
SDG: 32.816111, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

Qualifier	Qualifier Description
*+	LCS and/or LCSD is outside acceptance limits, high biased.
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12799-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12799-1

Receipt
The samples were received on 3/23/2022 2:11 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 4.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The laboratory control sample (LCS) for preparation batch 880-22418 and analytical batch 880-22425 recovered outside control limits for the following analytes: m-Xylene & p-Xylene and o-Xylene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method 8021B: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-22418 and analytical batch 880-22425 recovered outside control limits for the following analytes: m-Xylene & p-Xylene, o-Xylene, Xylenes, Total and Toluene

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22418 and analytical batch 880-22425 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

Client Sample ID: PH01

Date Collected: 03/17/22 09:03
Date Received: 03/23/22 14:11
Sample Depth: 1

Lab Sample ID: 880-12799-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 14:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/25/22 14:00	03/27/22 14:27	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 14:27	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/25/22 14:00	03/27/22 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 14:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*03/25/22 14:00*	*03/27/22 14:27*	*1*

Method: Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:09*	*1*
o-Terphenyl	*111*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6440**		50.0		mg/Kg			03/31/22 13:58	10

Client Sample ID: PH01A

Date Collected: 03/21/22 10:56
Date Received: 03/23/22 14:11
Sample Depth: 3

Lab Sample ID: 880-12799-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Toluene	<0.00200	U *1	0.00200		mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/28/22 09:00	03/28/22 20:40	1
m-Xylene & p-Xylene	<0.00401	U *+ *1	0.00401		mg/Kg		03/28/22 09:00	03/28/22 20:40	1
o-Xylene	<0.00200	U *+ *1	0.00200		mg/Kg		03/28/22 09:00	03/28/22 20:40	1
Xylenes, Total	<0.00401	U *+ *1	0.00401		mg/Kg		03/28/22 09:00	03/28/22 20:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/28/22 09:00*	*03/28/22 20:40*	*1*

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH01A
Lab Sample ID: 880-12799-2
Date Collected: 03/21/22 10:56 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*	*03/28/22 09:00*	*03/28/22 20:40*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 18:29	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*107*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:29*	*1*
o-Terphenyl	*108*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:29*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5140**		49.9		mg/Kg			03/31/22 14:06	10

Client Sample ID: PH01B
Lab Sample ID: 880-12799-3
Date Collected: 03/21/22 11:51 **Matrix: Solid**
Date Received: 03/23/22 14:11
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		03/25/22 14:00	03/27/22 15:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 15:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 15:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:08*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:08*	*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			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/24/22 19:53	1

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH01B
Lab Sample ID: 880-12799-3
Date Collected: 03/21/22 11:51 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 4

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		03/24/22 08:53	03/24/22 18:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/22 08:53	03/24/22 18:50	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:53	03/24/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:50*	*1*
o-Terphenyl	*127*		*70 - 130*	*03/24/22 08:53*	*03/24/22 18:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2480**		24.8		mg/Kg			03/31/22 14:32	5

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12799-1	PH01	102	104
880-12799-2	PH01A	111	99
880-12799-3	PH01B	105	108
880-12893-A-21-D MS	Matrix Spike	116	96
880-12893-A-21-E MSD	Matrix Spike Duplicate	108	94
890-2130-A-1-C MS	Matrix Spike	103	96
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102
LCS 880-22243/1-A	Lab Control Sample	103	112
LCS 880-22418/1-A	Lab Control Sample	105	103
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113
LCSD 880-22418/2-A	Lab Control Sample Dup	88	110
MB 880-22243/5-A	Method Blank	100	102
MB 880-22286/5-A	Method Blank	101	103
MB 880-22418/5-A	Method Blank	98	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12799-1	PH01	110	111
880-12799-2	PH01A	107	108
880-12799-3	PH01B	127	127
880-12803-A-1-C MS	Matrix Spike	118	98
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85
LCS 880-22247/2-A	Lab Control Sample	111	105
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88
MB 880-22247/1-A	Method Blank	119	124

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22243

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*

Lab Sample ID: LCS 880-22243/1-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1116		mg/Kg		112	70 - 130		
Toluene			0.100	0.1083		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-22243/2-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1245		mg/Kg		124	70 - 130	11	35
Toluene			0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene			0.100	0.1133		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2347		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1165		mg/Kg		117	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130		
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2130-A-1-D MSD
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.01827	F1	mg/Kg		18	70 - 130	33	35
Toluene	<0.00198	U F1	0.100	0.01840	F1	mg/Kg		18	70 - 130	6	35
Ethylbenzene	<0.00198	U F1	0.100	0.02171	F1	mg/Kg		22	70 - 130	6	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.04688	F1	mg/Kg		23	70 - 130	1	35
o-Xylene	<0.00198	U F1	0.100	0.02815	F1	mg/Kg		28	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-22286/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22286

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

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

Lab Sample ID: MB 880-22418/5-A
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22418

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/28/22 09:00	03/28/22 18:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/28/22 09:00	03/28/22 18:08	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22418/5-A
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22418

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/28/22 09:00	03/28/22 18:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/28/22 09:00	03/28/22 18:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/28/22 09:00*	*03/28/22 18:08*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*03/28/22 09:00*	*03/28/22 18:08*	*1*

Lab Sample ID: LCS 880-22418/1-A
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22418

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1075		mg/Kg		108	70 - 130		
Toluene			0.100	0.1121		mg/Kg		112	70 - 130		
Ethylbenzene			0.100	0.1147		mg/Kg		115	70 - 130		
m-Xylene & p-Xylene			0.200	0.2787	*+	mg/Kg		139	70 - 130		
o-Xylene			0.100	0.1331	*+	mg/Kg		133	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-22418/2-A
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22418

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08101		mg/Kg		81	70 - 130	28	35
Toluene			0.100	0.07156	*1	mg/Kg		72	70 - 130	44	35
Ethylbenzene			0.100	0.08312		mg/Kg		83	70 - 130	32	35
m-Xylene & p-Xylene			0.200	0.1778	*1	mg/Kg		89	70 - 130	44	35
o-Xylene			0.100	0.08601	*1	mg/Kg		86	70 - 130	43	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 880-12893-A-21-D MS
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22418

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00202	U F1	0.100	0.005133	F1	mg/Kg		5	70 - 130		
Toluene	<0.00202	U F1 *1	0.100	0.007147	F1	mg/Kg		6	70 - 130		
Ethylbenzene	<0.00202	U F1	0.100	0.007349	F1	mg/Kg		7	70 - 130		
m-Xylene & p-Xylene	<0.00403	U F1 *+ *1	0.200	0.02063	F1	mg/Kg		10	70 - 130		
o-Xylene	<0.00202	U F1 *+ *1	0.100	0.01202	F1	mg/Kg		12	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12893-A-21-D MS
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22418

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	116		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 880-12893-A-21-E MSD
Matrix: Solid
Analysis Batch: 22425

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22418

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00202	U F1	0.0998	0.005869	F1	mg/Kg		6	70 - 130	13	35
Toluene	<0.00202	U F1 *1	0.0998	0.007392	F1	mg/Kg		7	70 - 130	3	35
Ethylbenzene	<0.00202	U F1	0.0998	0.008363	F1	mg/Kg		8	70 - 130	13	35
m-Xylene & p-Xylene	<0.00403	U F1 *+ *1	0.200	0.01614	F1	mg/Kg		8	70 - 130	24	35
o-Xylene	<0.00202	U F1 *+ *1	0.0998	0.01161	F1	mg/Kg		12	70 - 130	4	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130	03/24/22 08:53	03/24/22 11:17	1
o-Terphenyl	124		70 - 130	03/24/22 08:53	03/24/22 11:17	1

Lab Sample ID: LCS 880-22247/2-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	769.8		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1-Chlorooctane	111		70 - 130
o-Terphenyl	105		70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: LCSD 880-22247/3-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22239 **Prep Batch: 22247**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	671.6	*-	mg/Kg		67	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	918.7		mg/Kg		92	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-12803-A-1-C MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22239 **Prep Batch: 22247**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1227		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1212		mg/Kg		119	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

Lab Sample ID: 880-12803-A-1-D MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22239 **Prep Batch: 22247**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	999	1018		mg/Kg		99	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1064		mg/Kg		104	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-22470/2-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12799-2 MS
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: PH01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5140		2500	7478		mg/Kg		94	90 - 110		

Lab Sample ID: 880-12799-2 MSD
Matrix: Solid
Analysis Batch: 22721

Client Sample ID: PH01A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5140		2500	7546		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	5035	
880-12799-3	PH01B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 22418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-2	PH01A	Total/NA	Solid	5035	
MB 880-22418/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22418/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22418/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12893-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	
880-12893-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8021B	22243
880-12799-3	PH01B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-2	PH01A	Total/NA	Solid	8021B	22418
MB 880-22418/5-A	Method Blank	Total/NA	Solid	8021B	22418
LCS 880-22418/1-A	Lab Control Sample	Total/NA	Solid	8021B	22418
LCSD 880-22418/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22418
880-12893-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	22418
880-12893-A-21-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22418

Analysis Batch: 22500

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	Total BTEX	
880-12799-2	PH01A	Total/NA	Solid	Total BTEX	
880-12799-3	PH01B	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015B NM	22247
880-12799-2	PH01A	Total/NA	Solid	8015B NM	22247
880-12799-3	PH01B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015NM Prep	
880-12799-2	PH01A	Total/NA	Solid	8015NM Prep	
880-12799-3	PH01B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22321

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Total/NA	Solid	8015 NM	
880-12799-2	PH01A	Total/NA	Solid	8015 NM	
880-12799-3	PH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Soluble	Solid	DI Leach	
880-12799-2	PH01A	Soluble	Solid	DI Leach	
880-12799-3	PH01B	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-2 MS	PH01A	Soluble	Solid	DI Leach	
880-12799-2 MSD	PH01A	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12799-1	PH01	Soluble	Solid	300.0	22470
880-12799-2	PH01A	Soluble	Solid	300.0	22470
880-12799-3	PH01B	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-2 MS	PH01A	Soluble	Solid	300.0	22470
880-12799-2 MSD	PH01A	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH01 — Lab Sample ID: 880-12799-1

Date Collected: 03/17/22 09:03 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 14:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22500	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22321	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		10			22721	03/31/22 13:58	SC	XEN MID

Client Sample ID: PH01A — Lab Sample ID: 880-12799-2

Date Collected: 03/21/22 10:56 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22418	03/28/22 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22425	03/28/22 20:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22500	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22321	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		10			22721	03/31/22 14:06	SC	XEN MID

Client Sample ID: PH01B — Lab Sample ID: 880-12799-3

Date Collected: 03/21/22 11:51 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 15:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22500	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22321	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 14:32	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12799-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12799-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12799-1	PH01	Solid	03/17/22 09:03	03/23/22 14:11	1
880-12799-2	PH01A	Solid	03/21/22 10:56	03/23/22 14:11	3
880-12799-3	PH01B	Solid	03/21/22 11:51	03/23/22 14:11	4

XENCO LABORATORIES

Chain of Custody

Work Order No: 12799

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level (II) Level III ☐ PST/USTT ☐ TRRP ☐ Level IV ☐
Deliverables EDD (E) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	3M03720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5DAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	IR2
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.1
Sample Custody Seals	Yes No (N/A)	Total Containers	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4.30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH01	SL	3-17-22	09:03	1	1	X	X	X	
PH01A	↓	3-21-22	10:56	3	↓	↓	↓	↓	
PH01B	↓	3-21-22	11:51	4	↓	↓	↓	↓	

880-12799 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/23/22 14:11	2		
3			4		
5			6		

Revised Date 101419 Rev 2019.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12799-1
SDG Number: 32.816111, -103.621202

Login Number: 12799
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12800-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:08:16 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12800-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12800-1

Receipt
The samples were received on 3/23/2022 2:11 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 4.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Client Sample ID: PH02

Date Collected: 03/17/22 09:10
Date Received: 03/23/22 14:11
Sample Depth: 1

Lab Sample ID: 880-12800-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 15:28	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/25/22 14:00	03/27/22 15:28	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 15:28	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/25/22 14:00	03/27/22 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:28*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:28*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:50	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:50	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:50*	*1*
o-Terphenyl	*121*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5470**		49.8		mg/Kg			03/31/22 14:41	10

Client Sample ID: PH02A

Date Collected: 03/21/22 11:03
Date Received: 03/23/22 14:11
Sample Depth: 3.5

Lab Sample ID: 880-12800-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 15:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 15:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 15:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:49*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Client Sample ID: PH02A

Lab Sample ID: 880-12800-2

Date Collected: 03/21/22 11:03
Date Received: 03/23/22 14:11
Sample Depth: 3.5

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 15:49*	*1*

Method: Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 15:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*120*		*70 - 130*	*03/24/22 08:49*	*03/24/22 15:41*	*1*
o-Terphenyl	*122*		*70 - 130*	*03/24/22 08:49*	*03/24/22 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**797**		24.8	mg/Kg			03/31/22 15:07	5

Client Sample ID: PH02B

Lab Sample ID: 880-12800-3

Date Collected: 03/21/22 12:00
Date Received: 03/23/22 14:11
Sample Depth: 5

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/25/22 14:00	03/27/22 16:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/25/22 14:00	03/27/22 16:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:09*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:09*	*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			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.7	U	49.7	mg/Kg			03/24/22 19:46	1

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH02B — Lab Sample ID: 880-12800-3

Date Collected: 03/21/22 12:00 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U	49.7		mg/Kg		03/24/22 08:49	03/24/22 16:02	1
Diesel Range Organics (Over C10-C28)	<49.7	U	49.7		mg/Kg		03/24/22 08:49	03/24/22 16:02	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/24/22 08:49	03/24/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:02*	*1*
o-Terphenyl	*117*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3000**		25.0		mg/Kg			03/31/22 15:16	5

Client Sample ID: PH02C — Lab Sample ID: 880-12800-4

Date Collected: 03/22/22 10:07 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Toluene	<0.00198	U	0.00198		mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		03/25/22 14:00	03/27/22 16:30	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		03/25/22 14:00	03/27/22 16:30	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		03/25/22 14:00	03/27/22 16:30	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		03/25/22 14:00	03/27/22 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:30*	*1*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:30*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**71.6**		50.0		mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 16:24	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 16:24	1
Oil Range Organics (Over C28-C36)	**71.6**		50.0		mg/Kg		03/24/22 08:49	03/24/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:24*	*1*
o-Terphenyl	*119*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:24*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Client Sample ID: PH02C

Lab Sample ID: 880-12800-4
Matrix: Solid
Date Collected: 03/22/22 10:07
Date Received: 03/23/22 14:11
Sample Depth: 6

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1810		24.9		mg/Kg			03/31/22 15:24	5

Client Sample ID: PH02D

Lab Sample ID: 880-12800-5
Matrix: Solid
Date Collected: 03/22/22 10:49
Date Received: 03/23/22 14:11
Sample Depth: 8.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 16:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 16:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 16:50	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		03/25/22 14:00	03/27/22 16:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 16:50	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		03/25/22 14:00	03/27/22 16:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:50*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 14:00*	*03/27/22 16:50*	*1*

Method: Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 16:45	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 16:45	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*105*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:45*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/24/22 08:49*	*03/24/22 16:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.1		4.96		mg/Kg			03/31/22 15:33	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-12800-1	PH02	110	112
880-12800-2	PH02A	105	108
880-12800-3	PH02B	107	108
880-12800-4	PH02C	108	111
880-12800-5	PH02D	106	109
890-2130-A-1-C MS	Matrix Spike	103	96
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102
LCS 880-22243/1-A	Lab Control Sample	103	112
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113
MB 880-22243/5-A	Method Blank	100	102
MB 880-22286/5-A	Method Blank	101	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-12790-A-9-C MS	Matrix Spike	102	90
880-12790-A-9-D MSD	Matrix Spike Duplicate	94	77
880-12800-1	PH02	120	121
880-12800-2	PH02A	120	122
880-12800-3	PH02B	115	117
880-12800-4	PH02C	119	119
880-12800-5	PH02D	105	103
LCS 880-22246/2-A	Lab Control Sample	114	119
LCSD 880-22246/3-A	Lab Control Sample Dup	119	123
MB 880-22246/1-A	Method Blank	117	125

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A **Client Sample ID: Method Blank**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22424 **Prep Batch: 22243**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*

Lab Sample ID: LCS 880-22243/1-A **Client Sample ID: Lab Control Sample**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22424 **Prep Batch: 22243**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1116		mg/Kg		112	70 - 130		
Toluene			0.100	0.1083		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-22243/2-A **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22424 **Prep Batch: 22243**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1245		mg/Kg		124	70 - 130	11	35
Toluene			0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene			0.100	0.1133		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2347		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1165		mg/Kg		117	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 890-2130-A-1-C MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Total/NA**
Analysis Batch: 22424 **Prep Batch: 22243**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130		
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2130-A-1-D MSD
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.01827	F1	mg/Kg		18	70 - 130	33	35
Toluene	<0.00198	U F1	0.100	0.01840	F1	mg/Kg		18	70 - 130	6	35
Ethylbenzene	<0.00198	U F1	0.100	0.02171	F1	mg/Kg		22	70 - 130	6	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.04688	F1	mg/Kg		23	70 - 130	1	35
o-Xylene	<0.00198	U F1	0.100	0.02815	F1	mg/Kg		28	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-22286/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22286

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

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

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

Lab Sample ID: MB 880-22246/1-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22246

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/22 08:49	03/24/22 11:17	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22246/1-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22246

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/24/22 08:49*	*03/24/22 11:17*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/24/22 08:49*	*03/24/22 11:17*	*1*

Lab Sample ID: LCS 880-22246/2-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22246

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	910.2		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1169		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: LCSD 880-22246/3-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22246

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	949.6		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1220		mg/Kg		122	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Lab Sample ID: 880-12790-A-9-C MS
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	970.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1060		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12790-A-9-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22241 — **Prep Batch: 22246**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	989.4		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	935.7		mg/Kg		89	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12799-A-2-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5140		2500	7478		mg/Kg		94	90 - 110		

Lab Sample ID: 880-12799-A-2-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5140		2500	7546		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	5035	
880-12800-2	PH02A	Total/NA	Solid	5035	
880-12800-3	PH02B	Total/NA	Solid	5035	
880-12800-4	PH02C	Total/NA	Solid	5035	
880-12800-5	PH02D	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8021B	22243
880-12800-2	PH02A	Total/NA	Solid	8021B	22243
880-12800-3	PH02B	Total/NA	Solid	8021B	22243
880-12800-4	PH02C	Total/NA	Solid	8021B	22243
880-12800-5	PH02D	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	Total BTEX	
880-12800-2	PH02A	Total/NA	Solid	Total BTEX	
880-12800-3	PH02B	Total/NA	Solid	Total BTEX	
880-12800-4	PH02C	Total/NA	Solid	Total BTEX	
880-12800-5	PH02D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015B NM	22246
880-12800-2	PH02A	Total/NA	Solid	8015B NM	22246
880-12800-3	PH02B	Total/NA	Solid	8015B NM	22246
880-12800-4	PH02C	Total/NA	Solid	8015B NM	22246
880-12800-5	PH02D	Total/NA	Solid	8015B NM	22246
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015B NM	22246
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22246
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22246
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22246
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22246

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC Semi VOA

Prep Batch: 22246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015NM Prep	
880-12800-2	PH02A	Total/NA	Solid	8015NM Prep	
880-12800-3	PH02B	Total/NA	Solid	8015NM Prep	
880-12800-4	PH02C	Total/NA	Solid	8015NM Prep	
880-12800-5	PH02D	Total/NA	Solid	8015NM Prep	
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22315

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Total/NA	Solid	8015 NM	
880-12800-2	PH02A	Total/NA	Solid	8015 NM	
880-12800-3	PH02B	Total/NA	Solid	8015 NM	
880-12800-4	PH02C	Total/NA	Solid	8015 NM	
880-12800-5	PH02D	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Soluble	Solid	DI Leach	
880-12800-2	PH02A	Soluble	Solid	DI Leach	
880-12800-3	PH02B	Soluble	Solid	DI Leach	
880-12800-4	PH02C	Soluble	Solid	DI Leach	
880-12800-5	PH02D	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12800-1	PH02	Soluble	Solid	300.0	22470
880-12800-2	PH02A	Soluble	Solid	300.0	22470
880-12800-3	PH02B	Soluble	Solid	300.0	22470
880-12800-4	PH02C	Soluble	Solid	300.0	22470
880-12800-5	PH02D	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Client Sample ID: PH02

Date Collected: 03/17/22 09:10
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 15:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		10			22721	03/31/22 14:41	SC	XEN MID

Client Sample ID: PH02A

Date Collected: 03/21/22 11:03
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 15:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 15:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 15:07	SC	XEN MID

Client Sample ID: PH02B

Date Collected: 03/21/22 12:00
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 15:16	SC	XEN MID

Client Sample ID: PH02C

Date Collected: 03/22/22 10:07
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Client Sample ID: PH02C

Date Collected: 03/22/22 10:07
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		5			22721	03/31/22 15:24	SC	XEN MID

Client Sample ID: PH02D

Date Collected: 03/22/22 10:49
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12800-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 16:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22501	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22315	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:33	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12800-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12800-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12800-1	PH02	Solid	03/17/22 09:10	03/23/22 14:11	1
880-12800-2	PH02A	Solid	03/21/22 11:03	03/23/22 14:11	3.5
880-12800-3	PH02B	Solid	03/21/22 12:00	03/23/22 14:11	5
880-12800-4	PH02C	Solid	03/22/22 10:07	03/23/22 14:11	6
880-12800-5	PH02D	Solid	03/22/22 10:49	03/23/22 14:11	8.5

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

880-12800 Chain of Custody

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

Work Order Comments

Program. UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level (II) Level III ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables EDD (EDD) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31403720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	
Received Intact	(Yes) No	IR8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-1
Sample Custody Seals	Yes No N/A	Total Containers	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH02	SL	3-17-22	0910	1	1	X	X	X	
PH02A	↓	3-21-22	11:03	3.5	↓	↓	↓	↓	
PH02B		3-21-22	12:00	5					
PH02C		3-22-22	10:07	6					
PH02D	↓	3-22-22	10:49	8.5	↓	↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U 1631 / 245.1 / 7470 / 7471 Hg

	Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1	Hadlie Green		3/23/22 14:11	2		
3				4		
5				6		

Revised Date 101419 Rev 2019.1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12800-1
SDG Number: 32.816111, -103.621202

Login Number: 12800
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12802-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
4/1/2022 6:07:43 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12802-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12802-1

Receipt
The samples were received on 3/23/2022 2:11 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 4.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-22245 and analytical batch 880-22323 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22245 and analytical batch 880-22323 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Client Sample ID: PH03

Date Collected: 03/17/22 09:20
Date Received: 03/23/22 14:11
Sample Depth: 1

Lab Sample ID: 880-12802-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 11:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 08:47	03/26/22 11:00	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 11:00	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 08:47	03/26/22 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:00*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:00*	*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			03/28/22 12:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 17:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 17:27	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/24/22 08:49*	*03/24/22 17:27*	*1*
o-Terphenyl	*118*		*70 - 130*	*03/24/22 08:49*	*03/24/22 17:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7450**		99.0		mg/Kg			04/01/22 09:20	20

Client Sample ID: PH03A

Date Collected: 03/21/22 11:10
Date Received: 03/23/22 14:11
Sample Depth: 3

Lab Sample ID: 880-12802-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/25/22 08:47	03/26/22 11:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/25/22 08:47	03/26/22 11:20	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/25/22 08:47	03/26/22 11:20	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/25/22 08:47	03/26/22 11:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:20*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH03A
Lab Sample ID: 880-12802-2
Date Collected: 03/21/22 11:10 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/28/22 12:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1
OII Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/22 08:49	03/24/22 17:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*116*		*70 - 130*	*03/24/22 08:49*	*03/24/22 17:48*	*1*
o-Terphenyl	*119*		*70 - 130*	*03/24/22 08:49*	*03/24/22 17:48*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3250**		50.0	mg/Kg			04/01/22 09:47	10

Client Sample ID: PH03B
Lab Sample ID: 880-12802-3
Date Collected: 03/21/22 12:09 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 4.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/25/22 08:47	03/26/22 11:41	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/25/22 08:47	03/26/22 11:41	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/25/22 08:47	03/26/22 11:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:41*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 08:47*	*03/26/22 11:41*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			03/28/22 12:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/24/22 19:46	1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH03B
Lab Sample ID: 880-12802-3
Date Collected: 03/21/22 12:09 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 4.5

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:09	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:09	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:09*	*1*
o-Terphenyl	*112*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:09*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1270**		25.0		mg/Kg			04/01/22 09:56	5

Client Sample ID: PH03C
Lab Sample ID: 880-12802-4
Date Collected: 03/21/22 14:36 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 6

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/25/22 08:47	03/26/22 12:01	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		03/25/22 08:47	03/26/22 12:01	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/25/22 08:47	03/26/22 12:01	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		03/25/22 08:47	03/26/22 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 08:47*	*03/26/22 12:01*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 08:47*	*03/26/22 12:01*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			03/28/22 12:44	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			03/24/22 19:46	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:29	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:29	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:49	03/24/22 18:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*123*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:29*	*1*
o-Terphenyl	*126*		*70 - 130*	*03/24/22 08:49*	*03/24/22 18:29*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Client Sample ID: PH03C
Date Collected: 03/21/22 14:36
Date Received: 03/23/22 14:11
Sample Depth: 6

Lab Sample ID: 880-12802-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504		25.1		mg/Kg			04/01/22 10:04	5

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)											
		BFB1	DFBZ1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-12790-A-4-G MS	Matrix Spike	109	106										
880-12790-A-4-H MSD	Matrix Spike Duplicate	109	110										
880-12802-1	PH03	108	109										
880-12802-2	PH03A	106	109										
880-12802-3	PH03B	104	108										
880-12802-4	PH03C	107	109										
LCS 880-22245/1-A	Lab Control Sample	106	112										
LCSD 880-22245/2-A	Lab Control Sample Dup	105	112										
MB 880-21822/5-A	Method Blank	103	105										
MB 880-22245/5-A	Method Blank	98	103										

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)											
		1CO1	OTPH1										
Lab Sample ID	Client Sample ID	(70-130)	(70-130)										
880-12790-A-9-C MS	Matrix Spike	102	90										
880-12790-A-9-D MSD	Matrix Spike Duplicate	94	77										
880-12802-1	PH03	115	118										
880-12802-2	PH03A	116	119										
880-12802-3	PH03B	113	112										
880-12802-4	PH03C	123	126										
LCS 880-22246/2-A	Lab Control Sample	114	119										
LCSD 880-22246/3-A	Lab Control Sample Dup	119	123										
MB 880-22246/1-A	Method Blank	117	125										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21822/5-A
Matrix: Solid
Analysis Batch: 22323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21822

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/22/22 13:53	03/25/22 21:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/22/22 13:53	03/25/22 21:37	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/22/22 13:53	03/25/22 21:37	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/22/22 13:53	03/25/22 21:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*03/22/22 13:53*	*03/25/22 21:37*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*03/22/22 13:53*	*03/25/22 21:37*	*1*

Lab Sample ID: MB 880-22245/5-A
Matrix: Solid
Analysis Batch: 22323

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22245

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 08:34	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 08:47	03/26/22 08:34	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 08:47	03/26/22 08:34	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 08:47	03/26/22 08:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*03/25/22 08:47*	*03/26/22 08:34*	*1*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*	*03/25/22 08:47*	*03/26/22 08:34*	*1*

Lab Sample ID: LCS 880-22245/1-A
Matrix: Solid
Analysis Batch: 22323

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22245

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.09706		mg/Kg		97	70 - 130		
Toluene			0.100	0.09553		mg/Kg		96	70 - 130		
Ethylbenzene			0.100	0.09820		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.1996		mg/Kg		100	70 - 130		
o-Xylene			0.100	0.1011		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-22245/2-A
Matrix: Solid
Analysis Batch: 22323

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22245

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.08954		mg/Kg		90	70 - 130	8	35

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: LCSD 880-22245/2-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22323 — **Prep Batch: 22245**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene			0.100	0.08838		mg/Kg		88	70 - 130	8	35
Ethylbenzene			0.100	0.09248		mg/Kg		92	70 - 130	6	35
m-Xylene & p-Xylene			0.200	0.1892		mg/Kg		95	70 - 130	5	35
o-Xylene			0.100	0.09514		mg/Kg		95	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: 880-12790-A-4-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22323 — **Prep Batch: 22245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U F1 F2	0.101	0.04676	F1	mg/Kg		46	70 - 130
Toluene	<0.00200	U F1 F2	0.101	0.04985	F1	mg/Kg		49	70 - 130
Ethylbenzene	<0.00200	U F1 F2	0.101	0.05415	F1	mg/Kg		53	70 - 130
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.202	0.1139	F1	mg/Kg		55	70 - 130
o-Xylene	0.00205	F1	0.101	0.05957	F1	mg/Kg		57	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: 880-12790-A-4-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22323 — **Prep Batch: 22245**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U F1 F2	0.0996	0.07853	F2	mg/Kg		79	70 - 130	51	35
Toluene	<0.00200	U F1 F2	0.0996	0.07773	F2	mg/Kg		78	70 - 130	44	35
Ethylbenzene	<0.00200	U F1 F2	0.0996	0.08062	F2	mg/Kg		80	70 - 130	39	35
m-Xylene & p-Xylene	<0.00399	U F1 F2	0.199	0.1656	F2	mg/Kg		82	70 - 130	37	35
o-Xylene	0.00205	F1	0.0996	0.08390		mg/Kg		82	70 - 130	34	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

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

Lab Sample ID: MB 880-22246/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22241 — **Prep Batch: 22246**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 11:17	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22246/1-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22246

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:49	03/24/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*117*		*70 - 130*	*03/24/22 08:49*	*03/24/22 11:17*	*1*
o-Terphenyl	*125*		*70 - 130*	*03/24/22 08:49*	*03/24/22 11:17*	*1*

Lab Sample ID: LCS 880-22246/2-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22246

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	910.2		mg/Kg		91	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1169		mg/Kg		117	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*114*		*70 - 130*
o-Terphenyl	*119*		*70 - 130*

Lab Sample ID: LCSD 880-22246/3-A
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22246

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	949.6		mg/Kg		95	70 - 130	4	20
Diesel Range Organics (Over C10-C28)			1000	1220		mg/Kg		122	70 - 130	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*119*		*70 - 130*
o-Terphenyl	*123*		*70 - 130*

Lab Sample ID: 880-12790-A-9-C MS
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22246

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	970.1		mg/Kg		97	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1060		mg/Kg		101	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12790-A-9-D MSD
Matrix: Solid
Analysis Batch: 22241

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22246

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	989.4		mg/Kg		99	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	935.7		mg/Kg		89	70 - 130	12	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*77*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-22471/2-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

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

Lab Sample ID: 880-12802-1 MS
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7450		4950	12240		mg/Kg		97	90 - 110		

Lab Sample ID: 880-12802-1 MSD
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: PH03
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7450		4950	12060		mg/Kg		93	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 21822

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21822/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 22245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	5035	
880-12802-2	PH03A	Total/NA	Solid	5035	
880-12802-3	PH03B	Total/NA	Solid	5035	
880-12802-4	PH03C	Total/NA	Solid	5035	
MB 880-22245/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22245/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22245/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12790-A-4-G MS	Matrix Spike	Total/NA	Solid	5035	
880-12790-A-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8021B	22245
880-12802-2	PH03A	Total/NA	Solid	8021B	22245
880-12802-3	PH03B	Total/NA	Solid	8021B	22245
880-12802-4	PH03C	Total/NA	Solid	8021B	22245
MB 880-21822/5-A	Method Blank	Total/NA	Solid	8021B	21822
MB 880-22245/5-A	Method Blank	Total/NA	Solid	8021B	22245
LCS 880-22245/1-A	Lab Control Sample	Total/NA	Solid	8021B	22245
LCSD 880-22245/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22245
880-12790-A-4-G MS	Matrix Spike	Total/NA	Solid	8021B	22245
880-12790-A-4-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22245

Analysis Batch: 22487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	Total BTEX	
880-12802-2	PH03A	Total/NA	Solid	Total BTEX	
880-12802-3	PH03B	Total/NA	Solid	Total BTEX	
880-12802-4	PH03C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22241

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015B NM	22246
880-12802-2	PH03A	Total/NA	Solid	8015B NM	22246
880-12802-3	PH03B	Total/NA	Solid	8015B NM	22246
880-12802-4	PH03C	Total/NA	Solid	8015B NM	22246
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015B NM	22246
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22246
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22246
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22246
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22246

Prep Batch: 22246

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22246 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-2	PH03A	Total/NA	Solid	8015NM Prep	
880-12802-3	PH03B	Total/NA	Solid	8015NM Prep	
880-12802-4	PH03C	Total/NA	Solid	8015NM Prep	
MB 880-22246/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22246/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-22246/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12790-A-9-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12790-A-9-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22316

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Total/NA	Solid	8015 NM	
880-12802-2	PH03A	Total/NA	Solid	8015 NM	
880-12802-3	PH03B	Total/NA	Solid	8015 NM	
880-12802-4	PH03C	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Soluble	Solid	DI Leach	
880-12802-2	PH03A	Soluble	Solid	DI Leach	
880-12802-3	PH03B	Soluble	Solid	DI Leach	
880-12802-4	PH03C	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12802-1 MS	PH03	Soluble	Solid	DI Leach	
880-12802-1 MSD	PH03	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12802-1	PH03	Soluble	Solid	300.0	22471
880-12802-2	PH03A	Soluble	Solid	300.0	22471
880-12802-3	PH03B	Soluble	Solid	300.0	22471
880-12802-4	PH03C	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
880-12802-1 MS	PH03	Soluble	Solid	300.0	22471
880-12802-1 MSD	PH03	Soluble	Solid	300.0	22471

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH03 — Lab Sample ID: 880-12802-1

Date Collected: 03/17/22 09:20 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		20			22735	04/01/22 09:20	CH	XEN MID

Client Sample ID: PH03A — Lab Sample ID: 880-12802-2

Date Collected: 03/21/22 11:10 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		10			22735	04/01/22 09:47	CH	XEN MID

Client Sample ID: PH03B — Lab Sample ID: 880-12802-3

Date Collected: 03/21/22 12:09 **Matrix: Solid**
Date Received: 03/23/22 14:11

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	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 11:41	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		5			22735	04/01/22 09:56	CH	XEN MID

Client Sample ID: PH03C — Lab Sample ID: 880-12802-4

Date Collected: 03/21/22 14:36 **Matrix: Solid**
Date Received: 03/23/22 14:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22245	03/25/22 08:47	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22323	03/26/22 12:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22487	03/28/22 12:44	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Client Sample ID: PH03C
Date Collected: 03/21/22 14:36
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12802-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			22316	03/24/22 19:46	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22246	03/24/22 08:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22241	03/24/22 18:29	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		5			22735	04/01/22 10:04	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12802-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12802-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12802-1	PH03	Solid	03/17/22 09:20	03/23/22 14:11	1
880-12802-2	PH03A	Solid	03/21/22 11:10	03/23/22 14:11	3
880-12802-3	PH03B	Solid	03/21/22 12:09	03/23/22 14:11	4.5
880-12802-4	PH03C	Solid	03/21/22 14:36	03/23/22 14:11	6

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 12802

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level ☒ Level II ☐ PST/USTI ☐ TRRP ☐ Level IV ☐
Deliverables EDD ☒ ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31403720.000 27.02	Routine	☒
Project Location	32.816116 -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5DAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	
Received Intact:	(Yes) No	IR8	
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.1
Sample Custody Seals	Yes No (N/A)	Total Containers	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH03	SL	3-17-22	0920	1	1	X	X	X	
PH03A	↓	3-21-22	11:10	3	↓	↓	↓	↓	
PH03B		3-21-22	12:09	4.5					
PH03C		3-21-22	14:36	6					

880-12802 Chain of Custody

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/23/22 14:11	2		
			4		
5			6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12802-1
SDG Number: 32.816111, -103.621202

Login Number: 12802
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12803-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
4/1/2022 6:07:57 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Table of Contents

Eurofins Midland
4/1/2022

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12803-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12803-1

Receipt
The samples were received on 3/23/2022 2:11 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 4.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Client Sample ID: PH06

Date Collected: 03/17/22 09:44
Date Received: 03/23/22 14:11
Sample Depth: 1

Lab Sample ID: 880-12803-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 17:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 17:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		03/25/22 14:00	03/27/22 17:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		03/25/22 14:00	03/27/22 17:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 14:00*	*03/27/22 17:11*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 17:11*	*1*

Method: Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		03/24/22 08:53	03/24/22 12:19	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		03/24/22 08:53	03/24/22 12:19	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/24/22 08:53	03/24/22 12:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*127*		*70 - 130*	*03/24/22 08:53*	*03/24/22 12:19*	*1*
o-Terphenyl	*127*		*70 - 130*	*03/24/22 08:53*	*03/24/22 12:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5580**		49.8		mg/Kg			04/01/22 10:13	10

Client Sample ID: PH06A

Date Collected: 03/22/22 14:41
Date Received: 03/23/22 14:11
Sample Depth: 2.5

Lab Sample ID: 880-12803-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Toluene	<0.00201	U	0.00201		mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		03/25/22 14:00	03/27/22 18:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		03/25/22 14:00	03/27/22 18:34	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		03/25/22 14:00	03/27/22 18:34	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		03/25/22 14:00	03/27/22 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 18:34*	*1*

Eurofins Midland

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH06A
Lab Sample ID: 880-12803-2
Date Collected: 03/22/22 14:41 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 2.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 14:00*	*03/27/22 18:34*	*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			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.0**		49.9	mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1
Diesel Range Organics (Over C10-C28)	**73.0**		49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/22 08:53	03/24/22 15:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*97*		*70 - 130*	*03/24/22 08:53*	*03/24/22 15:41*	*1*
o-Terphenyl	*99*		*70 - 130*	*03/24/22 08:53*	*03/24/22 15:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1980**		25.0	mg/Kg			04/01/22 10:40	5

Client Sample ID: PH06B
Lab Sample ID: 880-12803-3
Date Collected: 03/22/22 14:52 **Matrix: Solid**
Date Received: 03/23/22 14:11
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		03/25/22 14:00	03/27/22 18:54	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/25/22 14:00	03/27/22 18:54	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/25/22 14:00	03/27/22 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*03/25/22 14:00*	*03/27/22 18:54*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*03/25/22 14:00*	*03/27/22 18:54*	*1*

Method: Total BTEX - Total BTEX Calculation

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

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.4**		49.8	mg/Kg			03/24/22 19:53	1

Eurofins Midland

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Client Sample ID: PH06B

Date Collected: 03/22/22 14:52
Date Received: 03/23/22 14:11
Sample Depth: 4

Lab Sample ID: 880-12803-3

Matrix: Solid

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	49.8		mg/Kg		03/24/22 08:53	03/24/22 16:02	1
Diesel Range Organics (Over C10-C28)	**50.4**		49.8		mg/Kg		03/24/22 08:53	03/24/22 16:02	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		03/24/22 08:53	03/24/22 16:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:02*	*1*
o-Terphenyl	*113*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:02*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**372**		4.96		mg/Kg			04/01/22 10:49	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12803-1	PH06	109	108
880-12803-2	PH06A	108	107
880-12803-3	PH06B	108	109
890-2130-A-1-C MS	Matrix Spike	103	96
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102
LCS 880-22243/1-A	Lab Control Sample	103	112
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113
MB 880-22243/5-A	Method Blank	100	102
MB 880-22286/5-A	Method Blank	101	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12803-1	PH06	127	127
880-12803-1 MS	PH06	118	98
880-12803-1 MSD	PH06	104	85
880-12803-2	PH06A	97	99
880-12803-3	PH06B	115	113
LCS 880-22247/2-A	Lab Control Sample	111	105
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88
MB 880-22247/1-A	Method Blank	119	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22243

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*

Lab Sample ID: LCS 880-22243/1-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene			0.100	0.1116		mg/Kg		112	70 - 130		
Toluene			0.100	0.1083		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-22243/2-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene			0.100	0.1245		mg/Kg		124	70 - 130	11	35
Toluene			0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene			0.100	0.1133		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2347		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1165		mg/Kg		117	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130		
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2130-A-1-D MSD
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.01827	F1	mg/Kg		18	70 - 130	33	35
Toluene	<0.00198	U F1	0.100	0.01840	F1	mg/Kg		18	70 - 130	6	35
Ethylbenzene	<0.00198	U F1	0.100	0.02171	F1	mg/Kg		22	70 - 130	6	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.04688	F1	mg/Kg		23	70 - 130	1	35
o-Xylene	<0.00198	U F1	0.100	0.02815	F1	mg/Kg		28	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-22286/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22286

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

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

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*
o-Terphenyl	*124*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*

Lab Sample ID: LCS 880-22247/2-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	769.8		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-22247/3-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	671.6	*-	mg/Kg		67	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	918.7		mg/Kg		92	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-12803-1 MS
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: PH06
Prep Type: Total/NA
Prep Batch: 22247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1227		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1212		mg/Kg		119	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12803-1 MSD
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: PH06
Prep Type: Total/NA
Prep Batch: 22247

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	999	1018		mg/Kg		99	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1064		mg/Kg		104	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22471/1-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Method Blank
Prep Type: Soluble

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

Lab Sample ID: LCS 880-22471/2-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Lab Control Sample
Prep Type: Soluble

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

Lab Sample ID: LCSD 880-22471/3-A
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

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

Lab Sample ID: 880-12802-A-1-F MS
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	7450		4950	12240		mg/Kg		97	90 - 110		

Lab Sample ID: 880-12802-A-1-G MSD
Matrix: Solid
Analysis Batch: 22735

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	7450		4950	12060		mg/Kg		93	90 - 110	1	20

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-2125-A-1-G MS **Client Sample ID: Matrix Spike**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22735

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

Lab Sample ID: 890-2125-A-1-H MSD **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid **Prep Type: Soluble**
Analysis Batch: 22735

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

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	5035	
880-12803-2	PH06A	Total/NA	Solid	5035	
880-12803-3	PH06B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8021B	22243
880-12803-2	PH06A	Total/NA	Solid	8021B	22243
880-12803-3	PH06B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22502

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	Total BTEX	
880-12803-2	PH06A	Total/NA	Solid	Total BTEX	
880-12803-3	PH06B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015B NM	22247
880-12803-2	PH06A	Total/NA	Solid	8015B NM	22247
880-12803-3	PH06B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-1 MS	PH06	Total/NA	Solid	8015B NM	22247
880-12803-1 MSD	PH06	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015NM Prep	
880-12803-2	PH06A	Total/NA	Solid	8015NM Prep	
880-12803-3	PH06B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-1 MS	PH06	Total/NA	Solid	8015NM Prep	
880-12803-1 MSD	PH06	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22318

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Total/NA	Solid	8015 NM	
880-12803-2	PH06A	Total/NA	Solid	8015 NM	
880-12803-3	PH06B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22471

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Soluble	Solid	DI Leach	
880-12803-2	PH06A	Soluble	Solid	DI Leach	
880-12803-3	PH06B	Soluble	Solid	DI Leach	
MB 880-22471/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12802-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12802-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12803-1	PH06	Soluble	Solid	300.0	22471
880-12803-2	PH06A	Soluble	Solid	300.0	22471
880-12803-3	PH06B	Soluble	Solid	300.0	22471
MB 880-22471/1-A	Method Blank	Soluble	Solid	300.0	22471
LCS 880-22471/2-A	Lab Control Sample	Soluble	Solid	300.0	22471
LCSD 880-22471/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22471
880-12802-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	22471
880-12802-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471
890-2125-A-1-G MS	Matrix Spike	Soluble	Solid	300.0	22471
890-2125-A-1-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22471

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Client Sample ID: PH06

Date Collected: 03/17/22 09:44
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12803-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 17:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22502	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22318	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 12:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		10			22735	04/01/22 10:13	CH	XEN MID

Client Sample ID: PH06A

Date Collected: 03/22/22 14:41
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12803-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 18:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22502	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22318	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 15:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		5			22735	04/01/22 10:40	CH	XEN MID

Client Sample ID: PH06B

Date Collected: 03/22/22 14:52
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12803-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 18:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22502	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22318	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	22471	03/28/22 11:01	CH	XEN MID
Soluble	Analysis	300.0		1			22735	04/01/22 10:49	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12803-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12803-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12803-1	PH06	Solid	03/17/22 09:44	03/23/22 14:11	1
880-12803-2	PH06A	Solid	03/22/22 14:41	03/23/22 14:11	2.5
880-12803-3	PH06B	Solid	03/22/22 14:52	03/23/22 14:11	4

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

880-12803 Chain of Custody

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level II (G) Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD (L) ADaPT ☐ Other

Project Name	LEAMEX 4 BATTERY	Turn Around	
Project Number	31403720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5DAY
PO #			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	IR6
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-0.1
Sample Custody Seals	Yes No (N/A)	Total Containers	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)
PH06	SL	3-17-22	0944	1	1	X	X	X
PH06A	↓	3-22-22	1441	2.5	↓	↓	↓	↓
PH06B	↓	3-22-22	1452	4	↓	↓	↓	↓

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4:30pm

Sample Comments

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

Notice Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of $75.00 will be applied to each project and a charge of $5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/23/22 14:11	2		
3			4		
5			6		

Revised Date 101419 Rev 2019 1

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

Work Order No: 12799

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project.
Reporting Level (II) Level III ☐ PST/US ☐ TRRP ☐ Level IV ☐
Deliverables EDD (EDD) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	34037720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5DAY
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	
Received Intact:	(Yes) No		
Cooler Custody Seals.	Yes No (N/A)	Correction Factor	-1
Sample Custody Seals	Yes No (N/A)	Total Containers	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4 30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH01	SL	3-17-22	09:03	1	1	X	X	X	
PH01A	↓	3-21-22	10:56	3	↓	↓	↓	↓	
PH01B	↓	3-21-22	11:51	4	↓	↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/23/22 14:11	2		
3			4		
5			6		

Revised Date101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12803-1
SDG Number: 32.816111, -103.621202

Login Number: 12803
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

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ANALYTICAL REPORT

Eurofins Midland
1211 W. Florida Ave
Midland, TX 79701
Tel: (432)704-5440

Laboratory Job ID: 880-12820-1
Laboratory Sample Delivery Group: 32.816111, -103.621202
Client Project/Site: Leamex 8 Battery

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
3/31/2022 5:08:47 PM

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

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

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

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Laboratory Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*-	LCS and/or LCSD is outside acceptance limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Job ID: 880-12820-1

Laboratory: Eurofins Midland

Narrative

Job Narrative
880-12820-1

Receipt
The samples were received on 3/23/2022 2:11 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 4.3°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22243 and analytical batch 880-22424 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA
Method 8015MOD_NM: The laboratory control sample (LCS) associated with preparation batch 880-22247 and analytical batch 880-22239 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Client Sample ID: PH05

Date Collected: 03/22/22 13:40
Date Received: 03/23/22 14:11
Sample Depth: 1

Lab Sample ID: 880-12820-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:15	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/25/22 14:00	03/27/22 19:15	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:15	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/25/22 14:00	03/27/22 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:15*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:15*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**136**		49.7		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.7	U *-	49.7		mg/Kg		03/24/22 08:53	03/24/22 16:24	1
Diesel Range Organics (Over C10-C28)	**136**		49.7		mg/Kg		03/24/22 08:53	03/24/22 16:24	1
Oil Range Organics (Over C28-C36)	<49.7	U	49.7		mg/Kg		03/24/22 08:53	03/24/22 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*98*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:24*	*1*
o-Terphenyl	*97*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:24*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34.7**		5.01		mg/Kg			03/31/22 15:42	1

Client Sample ID: PH05A

Date Collected: 03/22/22 13:50
Date Received: 03/23/22 14:11
Sample Depth: 2

Lab Sample ID: 880-12820-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:36	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		03/25/22 14:00	03/27/22 19:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 19:36	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		03/25/22 14:00	03/27/22 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:36*	*1*

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH05A
Lab Sample ID: 880-12820-2
Date Collected: 03/22/22 13:50 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 2

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:36*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**97.8**		50.0		mg/Kg			03/24/22 19:53	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *-	50.0		mg/Kg		03/24/22 08:53	03/24/22 16:45	1
Diesel Range Organics (Over C10-C28)	**97.8**		50.0		mg/Kg		03/24/22 08:53	03/24/22 16:45	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 16:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*105*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:45*	*1*
o-Terphenyl	*103*		*70 - 130*	*03/24/22 08:53*	*03/24/22 16:45*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**68.5**		5.05		mg/Kg			03/31/22 15:50	1

Client Sample ID: PH05B
Lab Sample ID: 880-12820-3
Date Collected: 03/22/22 14:08 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Toluene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 19:56	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		03/25/22 14:00	03/27/22 19:56	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		03/25/22 14:00	03/27/22 19:56	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		03/25/22 14:00	03/27/22 19:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:56*	*1*
1,4-Difluorobenzene (Surr)	*107*		*70 - 130*	*03/25/22 14:00*	*03/27/22 19:56*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404		mg/Kg			03/28/22 13:11	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**63.8**		49.9		mg/Kg			03/24/22 19:53	1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Client Sample ID: PH05B
Lab Sample ID: 880-12820-3
Date Collected: 03/22/22 14:08 **Matrix: Solid**
Date Received: 03/23/22 14:11
Sample Depth: 3

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *-	49.9		mg/Kg		03/24/22 08:53	03/24/22 17:27	1
Diesel Range Organics (Over C10-C28)	**63.8**		49.9		mg/Kg		03/24/22 08:53	03/24/22 17:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		03/24/22 08:53	03/24/22 17:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*03/24/22 08:53*	*03/24/22 17:27*	*1*
o-Terphenyl	*115*		*70 - 130*	*03/24/22 08:53*	*03/24/22 17:27*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**53.0**		4.98		mg/Kg			03/31/22 15:59	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

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

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12820-1	PH05	107	102
880-12820-2	PH05A	111	111
880-12820-3	PH05B	105	107
890-2130-A-1-C MS	Matrix Spike	103	96
890-2130-A-1-D MSD	Matrix Spike Duplicate	103	102
LCS 880-22243/1-A	Lab Control Sample	103	112
LCSD 880-22243/2-A	Lab Control Sample Dup	103	113
MB 880-22243/5-A	Method Blank	100	102
MB 880-22286/5-A	Method Blank	101	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

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

		Percent Surrogate Recovery (Acceptance Limits)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
880-12803-A-1-C MS	Matrix Spike	118	98
880-12803-A-1-D MSD	Matrix Spike Duplicate	104	85
880-12820-1	PH05	98	97
880-12820-2	PH05A	105	103
880-12820-3	PH05B	115	115
LCS 880-22247/2-A	Lab Control Sample	111	105
LCSD 880-22247/3-A	Lab Control Sample Dup	95	88
MB 880-22247/1-A	Method Blank	119	124

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-22243/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22243

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Toluene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		03/25/22 14:00	03/27/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		03/25/22 14:00	03/27/22 13:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*03/25/22 14:00*	*03/27/22 13:44*	*1*

Lab Sample ID: LCS 880-22243/1-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1116		mg/Kg		112	70 - 130		
Toluene			0.100	0.1083		mg/Kg		108	70 - 130		
Ethylbenzene			0.100	0.1073		mg/Kg		107	70 - 130		
m-Xylene & p-Xylene			0.200	0.2226		mg/Kg		111	70 - 130		
o-Xylene			0.100	0.1106		mg/Kg		111	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*

Lab Sample ID: LCSD 880-22243/2-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22243

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1245		mg/Kg		124	70 - 130	11	35
Toluene			0.100	0.1183		mg/Kg		118	70 - 130	9	35
Ethylbenzene			0.100	0.1133		mg/Kg		113	70 - 130	5	35
m-Xylene & p-Xylene			0.200	0.2347		mg/Kg		117	70 - 130	5	35
o-Xylene			0.100	0.1165		mg/Kg		117	70 - 130	5	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F1	0.0990	0.01306	F1	mg/Kg		13	70 - 130		
Toluene	<0.00198	U F1	0.0990	0.01961	F1	mg/Kg		20	70 - 130		

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: 890-2130-A-1-C MS
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00198	U F1	0.0990	0.02046	F1	mg/Kg		21	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.04644	F1	mg/Kg		23	70 - 130
o-Xylene	<0.00198	U F1	0.0990	0.02723	F1	mg/Kg		27	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: 890-2130-A-1-D MSD
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 22243

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F1	0.100	0.01827	F1	mg/Kg		18	70 - 130	33	35
Toluene	<0.00198	U F1	0.100	0.01840	F1	mg/Kg		18	70 - 130	6	35
Ethylbenzene	<0.00198	U F1	0.100	0.02171	F1	mg/Kg		22	70 - 130	6	35
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.04688	F1	mg/Kg		23	70 - 130	1	35
o-Xylene	<0.00198	U F1	0.100	0.02815	F1	mg/Kg		28	70 - 130	3	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 880-22286/5-A
Matrix: Solid
Analysis Batch: 22424

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22286

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

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

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/24/22 08:53	03/24/22 11:17	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

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

Lab Sample ID: MB 880-22247/1-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 22247

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		03/24/22 08:53	03/24/22 11:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*119*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*
o-Terphenyl	*124*		*70 - 130*	*03/24/22 08:53*	*03/24/22 11:17*	*1*

Lab Sample ID: LCS 880-22247/2-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	769.8		mg/Kg		77	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1087		mg/Kg		109	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*111*		*70 - 130*
o-Terphenyl	*105*		*70 - 130*

Lab Sample ID: LCSD 880-22247/3-A
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 22247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	671.6	*-	mg/Kg		67	70 - 130	14	20
Diesel Range Organics (Over C10-C28)			1000	918.7		mg/Kg		92	70 - 130	17	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*95*		*70 - 130*
o-Terphenyl	*88*		*70 - 130*

Lab Sample ID: 880-12803-A-1-C MS
Matrix: Solid
Analysis Batch: 22239

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 22247

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	998	1227		mg/Kg		120	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	1212		mg/Kg		119	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*118*		*70 - 130*
o-Terphenyl	*98*		*70 - 130*

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Lab Sample ID: 880-12803-A-1-D MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 22239 — **Prep Batch: 22247**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *-	999	1018		mg/Kg		99	70 - 130	19	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	1064		mg/Kg		104	70 - 130	13	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*104*		*70 - 130*
o-Terphenyl	*85*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22470/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			03/31/22 11:36	1

Lab Sample ID: LCS 880-22470/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	234.5		mg/Kg		94	90 - 110		

Lab Sample ID: LCSD 880-22470/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	234.4		mg/Kg		94	90 - 110	0	20

Lab Sample ID: 880-12799-A-2-G MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	5140		2500	7478		mg/Kg		94	90 - 110		

Lab Sample ID: 880-12799-A-2-H MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 22721

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	5140		2500	7546		mg/Kg		97	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC VOA

Prep Batch: 22243

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	5035	
880-12820-2	PH05A	Total/NA	Solid	5035	
880-12820-3	PH05B	Total/NA	Solid	5035	
MB 880-22243/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 22286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-22286/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 22424

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8021B	22243
880-12820-2	PH05A	Total/NA	Solid	8021B	22243
880-12820-3	PH05B	Total/NA	Solid	8021B	22243
MB 880-22243/5-A	Method Blank	Total/NA	Solid	8021B	22243
MB 880-22286/5-A	Method Blank	Total/NA	Solid	8021B	22286
LCS 880-22243/1-A	Lab Control Sample	Total/NA	Solid	8021B	22243
LCSD 880-22243/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22243
890-2130-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	22243
890-2130-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22243

Analysis Batch: 22503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	Total BTEX	
880-12820-2	PH05A	Total/NA	Solid	Total BTEX	
880-12820-3	PH05B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 22239

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015B NM	22247
880-12820-2	PH05A	Total/NA	Solid	8015B NM	22247
880-12820-3	PH05B	Total/NA	Solid	8015B NM	22247
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015B NM	22247
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	22247
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	22247
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	22247
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	22247

Prep Batch: 22247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015NM Prep	
880-12820-2	PH05A	Total/NA	Solid	8015NM Prep	
880-12820-3	PH05B	Total/NA	Solid	8015NM Prep	
MB 880-22247/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-22247/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

GC Semi VOA (Continued)

Prep Batch: 22247 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-22247/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12803-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12803-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 22319

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Total/NA	Solid	8015 NM	
880-12820-2	PH05A	Total/NA	Solid	8015 NM	
880-12820-3	PH05B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 22470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Soluble	Solid	DI Leach	
880-12820-2	PH05A	Soluble	Solid	DI Leach	
880-12820-3	PH05B	Soluble	Solid	DI Leach	
MB 880-22470/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12820-1	PH05	Soluble	Solid	300.0	22470
880-12820-2	PH05A	Soluble	Solid	300.0	22470
880-12820-3	PH05B	Soluble	Solid	300.0	22470
MB 880-22470/1-A	Method Blank	Soluble	Solid	300.0	22470
LCS 880-22470/2-A	Lab Control Sample	Soluble	Solid	300.0	22470
LCSD 880-22470/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	22470
880-12799-A-2-G MS	Matrix Spike	Soluble	Solid	300.0	22470
880-12799-A-2-H MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	22470

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Client Sample ID: PH05

Date Collected: 03/22/22 13:40
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12820-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.06 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:24	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:42	SC	XEN MID

Client Sample ID: PH05A

Date Collected: 03/22/22 13:50
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12820-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 16:45	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:50	SC	XEN MID

Client Sample ID: PH05B

Date Collected: 03/22/22 14:08
Date Received: 03/23/22 14:11

Lab Sample ID: 880-12820-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	22243	03/25/22 14:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22424	03/27/22 19:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22503	03/28/22 13:11	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			22319	03/24/22 19:53	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	22247	03/24/22 08:53	DM	XEN MID
Total/NA	Analysis	8015B NM		1			22239	03/24/22 17:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	22470	03/28/22 10:58	CH	XEN MID
Soluble	Analysis	300.0		1			22721	03/31/22 15:59	SC	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc. Job ID: 880-12820-1
Project/Site: Leamex 8 Battery SDG: 32.816111, -103.621202

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

Protocol References:

ASTM = ASTM International

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

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Leamex 8 Battery

Job ID: 880-12820-1
SDG: 32.816111, -103.621202

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12820-1	PH05	Solid	03/22/22 13:40	03/23/22 14:11	1
880-12820-2	PH05A	Solid	03/22/22 13:50	03/23/22 14:11	2
880-12820-3	PH05B	Solid	03/22/22 14:08	03/23/22 14:11	3

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334
Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) 794-1296
Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900
Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701
Atlanta GA (770) 449-8800

880-12820 Chain of Custody

www.xenco.com Page 1 of 1

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

Work Order Comments

Program UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project
Reporting Level (II) Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables EDD (☐) ADaPT ☐ Other

Project Name	LEAMEX 8 BATTERY	Turn Around	
Project Number	31403720.000 27.02	Routine	☒
Project Location	32.816111, -103.621202	Rush	☐
Sampler's Name	Hadlie Green	Due Date	5 DAY
PO #:			

SAMPLE RECEIPT			
Temp Blank	Yes (No)	Wet Ice	(Yes) No
Temperature (°C)	4.4/4.3	Thermometer ID	IR8
Received Intact:	(Yes) No		
Cooler Custody Seals	Yes No (N/A)	Correction Factor	-.1
Sample Custody Seals.	Yes No (N/A)	Total Containers.	

ANALYSIS REQUEST

Preservative Codes

HNO3 HN
H2S04 H2
HCL HL
None NO
NaOH Na
MeOH Me
Zn Acetate+ NaOH Zn

TAT starts the day recevied by the lab if received by 4.30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code	BTEX (EPA 0=8021)	TPH (EPA 8015)	CHLORIDES (EPA 300)	Sample Comments
PH05	SL	3-22-22	13:40	1	1	X	X	X	
PH05A	↓	↓	13:50	2	↓	↓	↓	↓	
PH05B	↓	↓	14:08	3	↓	↓	↓	↓	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** Hg

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
1 Hadlie Green		3/28/22 14:11	2		
3			4		
5			6		

Revised Date 101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12820-1
SDG Number: 32.816111, -103.621202

Login Number: 12820
List Number: 1
Creator: Rodriguez, Leticia

List Source: Eurofins Midland

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

ENSOLUM

APPENDIX E

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	217817
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2200641724
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.816111 Longitude -103.621202

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Leamex 8	Site Type	FlowLine
Date Release Discovered	December 20, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
M	24	17S	33E	Lea

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

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 104	Volume Recovered (bbls) 100
	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)

Cause of Release

The release was caused by a Main Injection Line Underground Leak. The release occurred off pad. ConocoPhillips will have the spill area evaluated for any possible impact from the release.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate notification was given by Kelsy Waggaman via email December 21, 2021 at 11:34 AM to spills@slo.state.nm.us and ocd.enviro@state.nm.us.

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Brittany N. Esparza
Title: Environmental Technician
Signature: Brittany Esparza
Date: 1/6/2022
email: Brittany.Esparza@ConocoPhillips.com
Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus
Date: 1/6/2022

L48 Spill Volume Estimate Form

NAPP2200641724

Facility Name & Number:	Leamex 8 Battery Injection Line
Asset Area:	Maljamar
Release Discovery Date & Time:	12/20/2021 10:00
Release Type:	Produced Water
Provide any known details about the event:	Main Injection Line Underground Leak

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off-pad?	See reference table below
Has it rained at least a half inch in the last 24 hours?	See reference table below

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)
Rectangle A	74.0	5.0	0.50	15.32%	2.744	0.420
Rectangle B	83.0	32.0	0.50	15.32%	19.699	3.018
Rectangle C	95.0	19.0	0.50	15.32%	13.387	2.051
Rectangle D	64.0	53.0	4.00	15.32%	201.259	30.833
Rectangle E	240.0	25.0	0.50	15.32%	44.500	6.817
Rectangle F					0.000	0.000
Rectangle G					0.000	0.000
Rectangle H					0.000	0.000
Rectangle I					0.000	0.000
Rectangle J					0.000	0.000
					Total Volume Release:	43.139

District I
1625 N. French Dr., Hobbs, NM 88240
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District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 70854
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/6/2022

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200641724
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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

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

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

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

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

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200641724
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: ___Bryce Wagoner_____ Title: __Permian HSE Specialist II_____

Signature:_____ Date: __9/16/2022_____

email: _Bryce.Wagoner@mavresources.com _____ Telephone: ___928-241-1862_____

OCD Only

Received by: ____Jocelyn Harimon_____ Date: __09/16/2022____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2200641724
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: ___Bryce Wagoner_____ Title: __Permian HSE Specialist II_____

Signature: _____ Date: __9/16/2022_____

email: __Bryce.Wagoner@mavresources.com_____ Telephone: __928-241-1862_____

OCD Only

Received by: Jocelyn Harimon Date: 09/16/2022

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 09/21/2022

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

CONDITIONS

Action 144163

CONDITIONS

Operator: Maverick Permian LLC 1111 Bagby Street Suite 1600 Houston, TX 77002	OGRID: 331199
	Action Number: 144163
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Sidewall samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. Composite confirmation samples will be collected from the bottom of the excavation from areas representing no more than four hundred (400) square feet. Composite confirmation samples will be collected from the sidewalls of the excavation from areas representing no more than two hundred (200) square feet.	9/21/2022