



WSP USA

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

May 9, 2022

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

**RE: Closure Request
Roadrunner Delivery
Incident Number NAB1818434831
Eddy County, New Mexico**

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of Lucid Energy Delaware, LLC (Lucid) presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Roadrunner Delivery (Site) in Unit O, Section 23, Township 24 South, Range 27 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of pipeline liquid from a Natural Gas line at the Site. Based on the excavation activities and soil sample laboratory analytical results, Lucid is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAB1818434831.

RELEASE BACKGROUND

On June 19, 2018, a hole in the tank near the load line resulted in the release of approximately 100 bbls pipeline liquid. From the total release volume, 40 bbls of pipeline liquid were recovered. Lucid reported the release to the New Mexico Oil Conservation Division (NMOCD) on a form C-141 on June 19, 2018 and was assigned Incident Number NAB1818434831.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 321000104092501, located approximately 2 miles south of the Site. The groundwater well has a reported depth to groundwater of 27.04 feet bgs and an unreported total depth bgs. The referenced well records are included in Attachment 1. The closest continuously flowing or significant watercourse to the Site is an intermediate stream, located approximately 688 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an



occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- TPH: 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On February 11, 2022, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Eight boreholes were advanced and collected within the release extent from a depth of 8 feet bgs to assess the lateral extent of impacted soil. Soil from the borehole soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Based on visual observations and, field screening activities, from the eight borehole samples, excavation activities were warranted to remove impacted soil.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On April 8, 2022 and April 11, 2022, WSP personnel returned to the Site to oversee additional excavation and completion of activities. Based on visual observations and, field screening activities, for the borehole soil samples, delineation and excavation were completed to remove impacted soil in the area surrounding the release extent. Excavation activities were performed using a track hoe. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to an approximate depth of 4 to 7-feet bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil samples FS01 through FS20 were collected from the floor of the excavation, from a depth of 4ft to 7-feet bgs. Due to the depth of the

District II
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excavation, soil samples were taken for the sidewalls (SW) of the excavation. The excavation sidewall soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 4. Photographic documentation was completed during the Site visits and a photographic log is included in Attachment 3.

Laboratory analytical results for excavation soil samples FS01 through FS20 and SW01-SW04 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

The excavation area measured approximately 3,962 square feet. A total of approximately 980 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the Lea Land disposal in Carlsbad, New Mexico. After completion of confirmation sampling, the excavation area is on hold for backfill per NMOCD closure request approval.

CLOSURE REQUEST

Site assessment and excavation activities were conducted at the Site to address the June 19, 2018, release of natural gas pipeline liquid. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the most stringent Table 1 Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Lucid backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Initial response efforts and excavation of impacted soil have mitigated impacts at the Site. No other sensitive receptors were identified near the release extent. WSP and Lucid believe these remedial actions are protective of human health, the environment, and groundwater. As such, Lucid respectfully requests no further action for Incident Number NAB1818434831. A signed C141 closure request is included in Attachment 5.

If you have any questions or comments, please do not hesitate to contact Mr. Travis Casey at (575)-689-5949.

Sincerely,

WSP USA Inc.

A handwritten signature in grey ink that reads 'pbenner'.

Payton Benner
Consultant, Geologist

A handwritten signature in black ink that reads 'Travis L Casey'.

Travis Casey
Sr. Consultant, Environmental Scientist



District II
Page 4

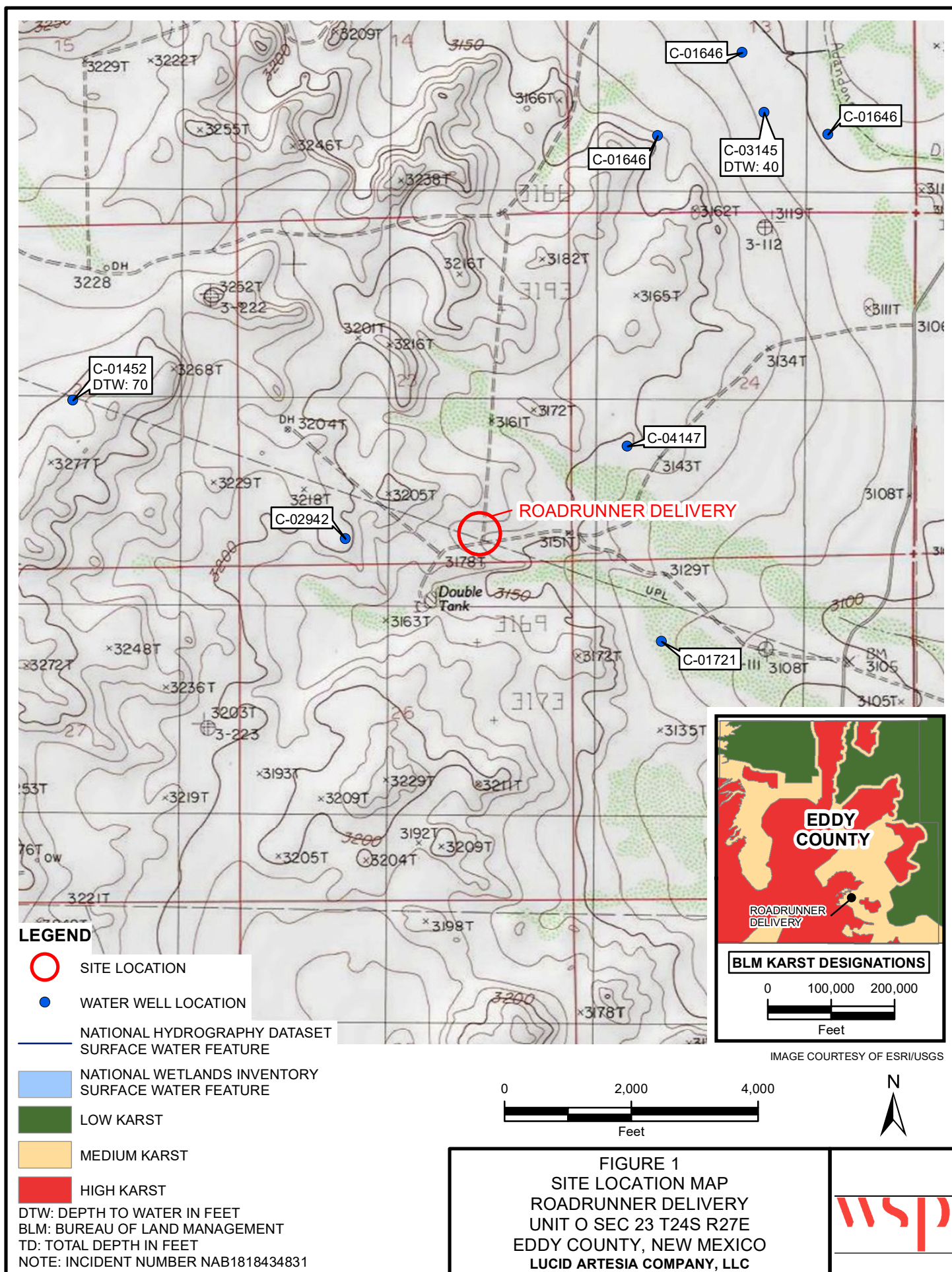
cc:

Bureau of Land Management

Attachments:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports

FIGURES





LEGEND



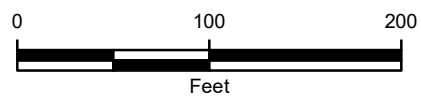
-  DELINEATION SOIL SAMPLE
-  RELEASE EXTENT

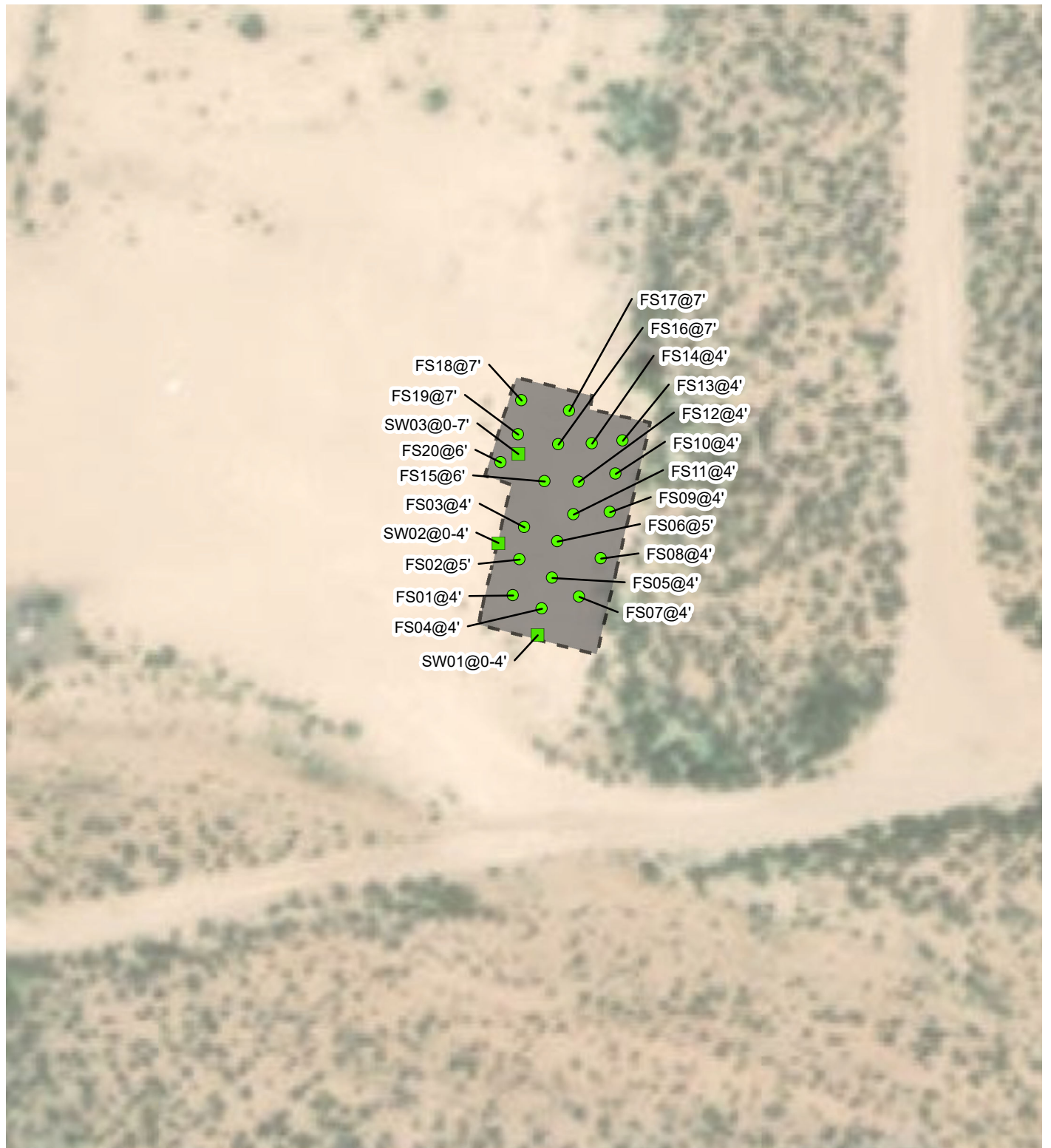
IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NAB1818434831
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
ROADRUNNER DELIVERY
UNIT O SEC 23 T24S R27E
EDDY COUNTY, NEW MEXICO
LUCID ARTESIA COMPANY, LLC

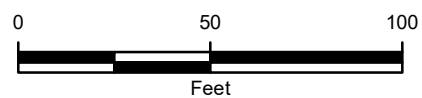


**LEGEND**

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

EXCAVATION EXTENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NAB1818434831
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 3
 EXCAVATION SOIL SAMPLE LOCATIONS
 ROADRUNNER DELIVERY
 UNIT O SEC 23 T24S R27E
 EDDY COUNTY, NEW MEXICO
 LUCID ARTESIA COMPANY, LLC



TABLES

Table 1

Soil Analytical Results
Roadrunner Delivery
Incident Number nAB1818434831
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Excavation Floor Samples										
FS01	04/08/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	55.2
FS02	04/08/2022	5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	59.1
FS03	04/08/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	22.7
FS04	04/08/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	74.3
FS05	04/08/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	46.2
FS06	04/08/2022	5	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	17.2
FS07	04/08/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	32.1
FS08	04/08/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	34.2
FS09	04/08/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	59.6
FS10	04/08/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	18.7
FS11	04/08/2022	4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	99.4
FS12	04/08/2022	4	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	158
FS13	04/08/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	31.3
FS14	04/08/2022	4	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	342
FS15	04/11/2022	6	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	66.5
FS16	04/11/2022	7	<0.00201	<0.00402	<49.8	<49.8	<49.8	<49.8	<49.8	17.1
FS17	04/11/2022	7	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
FS18	04/11/2022	7	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	6.73
FS19	04/11/2022	7	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<4.97

Table 1

Soil Analytical Results
Roadrunner Delivery
Incident Number nAB1818434831
Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS20	04/11/2022	6	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	10.9
Excavation Sidewall Samples										
SW01	04/11/2022	0-4	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	27.2
SW02	04/11/2022	0-4	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	99.7
SW03	04/11/2022	0-7	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	20.1
SW04	04/11/2022	0-7	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	67.7

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Greyed data represents samples that were excavated




New Mexico Office of the State Engineer

Water Right Summary



[get image list](#)

WR File Number: C 02942 **Subbasin:** C **Cross Reference:** -
Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE
Primary Status: PMT PERMIT
Total Acres: **Subfile:** - **Header:** -
Total Diversion: 0 **Cause/Case:** -
Owner: SAMSON
Contact: CORKY GLENN

Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
 get images	466858	72121	2002-12-31	EXP	EXP	C 02942	T		3	

Current Points of Diversion

(NAD83 UTM in meters)										
POD Number	Well Tag	Source	Q				X	Y		Other Location Desc
			64	Q16	Q4	Sec Tws Rng				
C 02942			3	4	3	23 24S 27E	578748	3562516*		

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

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

4/13/22 8:17 AM

WATER RIGHT SUMMARY

Received by Jurisdiction: 4/26/2022 11:30:52 AM



New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)							
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tw	Rng	X	Y
	C 02942	3	4	3	23	24S	27E	578748	3562516*

Driller License:	Driller Company:	
Driller Name:		
Drill Start Date:	Drill Finish Date:	Plug Date:
Log File Date:	PCW Rcv Date:	Source:
Pump Type:	Pipe Discharge Size:	Estimated Yield:
Casing Size:	Depth Well:	Depth Water:

*UTM location was derived from PLSS - see Help

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

Received by OGD: 4/26/2022 11:01:41 AM

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USGS Water Resources

Data Category:


Site Information ▼

Geographic Area:

United States ▼

GO

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- [Full News](#) 

USGS 321000104092501 25S.27E.02.21122

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°10'00", Longitude 104°09'25" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 3,164 feet above NAVD88.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Castile Formation" (312CSTL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1978-01-11	1987-10-13	3
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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Title: NWIS Site Information for USA: Site Inventory

URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321000104092501



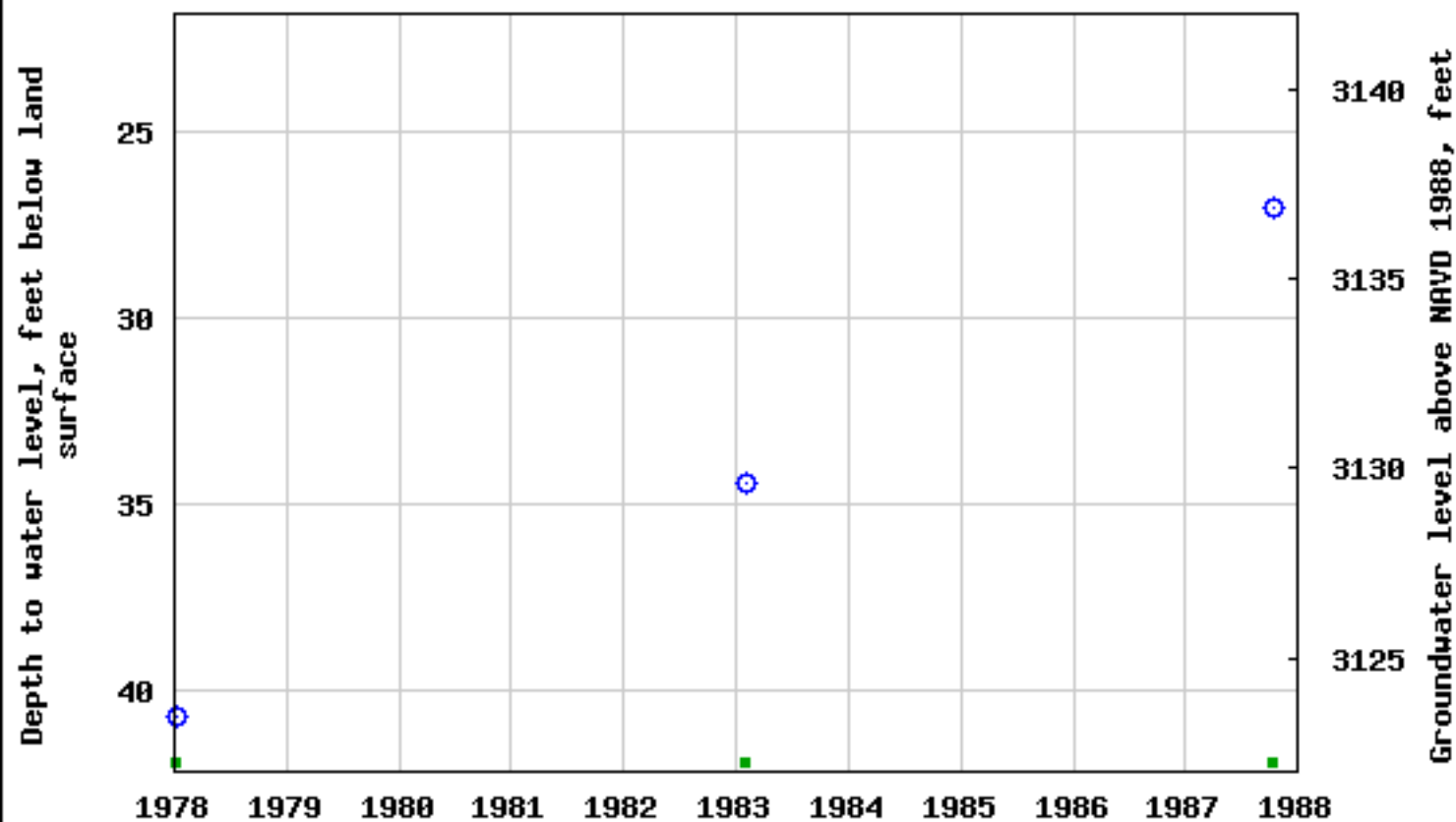
Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2022-04-13 10:24:59 EDT

0.29 0.27 caww01



USGS 321000104092501 25S.27E.02.21122



ATTACHMENT 3: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG**

Lucid Energy Delaware	Roadrunner Delivery Point Eddy County, New Mexico	NAB1818434831
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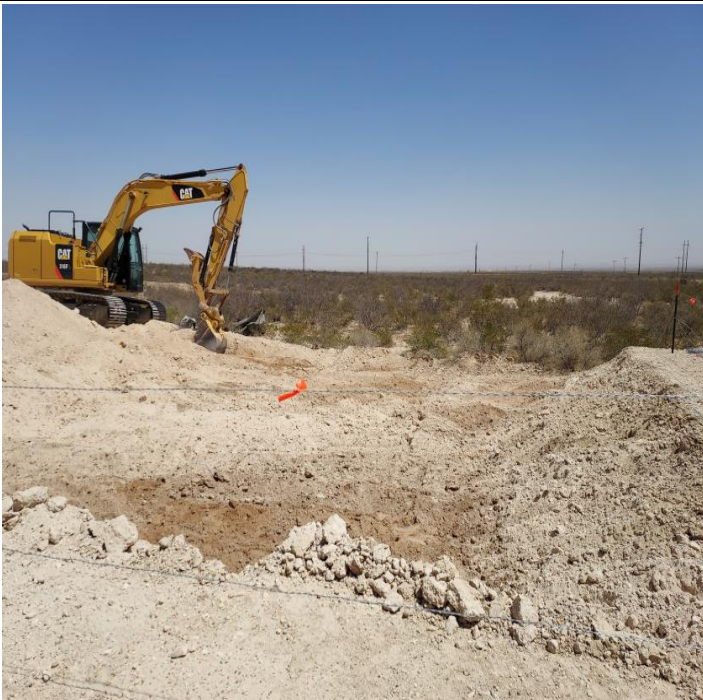

Photo No.	Date	
1	April 8, 2022	
Photo taken during excavation activities.		 A yellow CAT excavator is shown working on a large mound of light-colored soil and gravel. The excavator's arm is extended, and its bucket is positioned near the top of the mound. The background shows a flat, arid landscape with sparse vegetation and utility poles under a clear blue sky.

Photo No.	Date	
2	April 8, 2022	
Photo taken during excavation activities.		 A wide-angle shot of an excavation site. In the foreground, there is a large, deep pit filled with loose soil and gravel. A black fence line runs across the middle ground. In the background, two yellow excavators are visible, working on a raised area of the site. The landscape is flat and arid, with utility poles in the distance under a clear blue sky.



PHOTOGRAPHIC LOG		
Lucid Energy Delaware	Roadrunner Delivery Point Eddy County, New Mexico	NAB1818434831

Photo No.	Date	
3	April 8, 2022	
Photo taken during excavation activities.		

Photo No.	Date	
4	April 8, 2022	
Photo taken during excavation activities.		

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

Received by OCB: 5/26/2022 11:01:40 AM



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

Client or PH Name:

BH01

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: AB1818434831

WSP Job Number:

31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

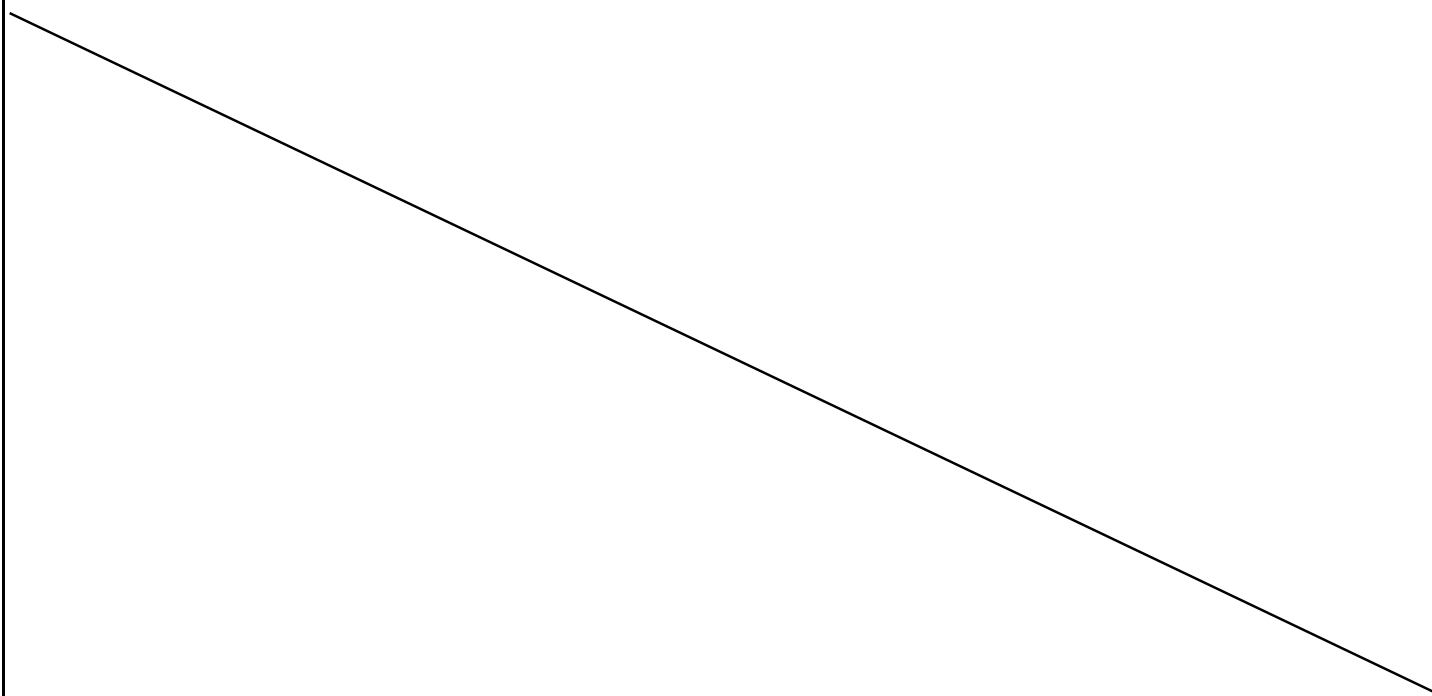
Field Screening:
Chloride, PID

Hole Diameter: 3"

Total Depth: 8'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	448	630	Y	BH01	1'	1	GP/GM CH	Poorly graded gravel/caliche with, sand and silt, strong odor, light staining, tan brown color, dry.
D	268	682	Y		2'	2	GP/GM CH	SAA
D	168	549	Y		4'	4'	GP/GM CH	SAA but moderate odor, brown color
D	<168	310	Y		6'	6'	GP/GM CH	SAA
D	<130	302	Y		8'	8	GP/GM CH	SAA





WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

BH02

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number:

31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

Field Screening:
Chloride, PID

Hole Diameter: 3"

Total Depth: 8'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	504	628	Y	BH02	1'	1	GP/GM CH	Poorly graded gravel/caliche with, sand and silt, strong odor, light staining, tan brown color, dry.
D	352	674	Y		2'	2	GP/GM CH	SAA
D	235	537	Y		4'	4'	GP/GM CH	SAA but medium odor, brown color
D	168	287	Y		6'	6'	GP/GM CH	SAA
D	<130	286	Y		8'	8	GP/GM CH	SAA



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

BH03

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number: 31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

Field Screening:

Chloride, PID

Hole Diameter: 3"

Total Depth: 8'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	750	10.7	Y	BH03	1'	1	GP/GM CH	Poorly graded gravel/caliche with, sand and silt, strong odor, light staining, tan brownish color, dry.
D	<168	6	Y		2'	2	GP/GM SAA CH	
D	<168	5	Y		4'	4'	GP/GM CH	Poorly graded gravel with sand and silt, dry, medium odor, lighter staining, brown color.
D	168	3.3	Y		6'	6'	GP/GM SAA	
D	<168	2.5	Y		8'	8	GP/GM SAA	SAA but light odor



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

BH04

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number:

31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

Field Screening:
Chloride, PID

Hole Diameter: 3"

Total Depth: 8'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	<168	15.9	Y	BH04	1'	1	GP/GM CH	Poorly graded gravel/caliche with sand and silt, strong/medium odor, odor, light staining, tan brownish color, dry.
D	<168	6	Y		2'	2	GP/GM CH	SAA
D	<158	4	Y		4'	4'	GP/GM CH	Poorly graded gravel with sand and silt, dry, light odor, light to no staining, brown color.
D	<158	2.4	N		6'	6'	GP/GM	SAA but no odor no staining.
D	<158	2.1	N		8'	8	GP/GM	SAA.



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

Bor PH Name:

BH05

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number:

31403665.01

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

Field Screening:
Chloride, PID

Hole Diameter: 0.5'

Total Depth: 1'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	<158	0.1	N	BH05	0.5'		GP/GM CH	Poorly graded gravel/caliche with, sand and silt, no odor, dry no staining, tan brown color,
D	<130	0	N		1'	1	GP/GM CH	SAA



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

BH06

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number:

31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593

Field Screening:
Chloride, PID

Hole Diameter: 0.5'

Total Depth: 1'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	<130	0.1	N	BH06	0.5'		GP/GM CH	Poorly graded gravel/caliche with, sand and silt, no odor, dry no staining, tan brown color,
D	<130	0.1	N		1'	1	GP/GM SAA CH	



WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name:

BH07

Date:

2/17/2022

Site Name: Road Runner Delivery

RP or Incident Number: NAB1818434831

WSP Job Number:

31403665.01

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC

Method: Hand Auger

Lat/Long: 32.196740,-104.157593


Field Screening:
Chloride, PID

Hole Diameter: 0.5'

Total Depth: 1'

Comments: all chloride field screenings contain a correction factor of 40%

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	<130	0.1	N	BH07	0.5'		GP/GM CH	Poorly graded gravel/caliche with, sand and silt, no odor, dry no staining, tan brown color,
D	<130	0.1	N		1'	1	GP/GM SAA CH	

 WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220					BH or PH Name:		Date:	
					BH08		2/17/2022	
					Site Name: Road Runner Delivery			
					RP or Incident Number: NAB1818434831			
					WSP Job Number:		31403665.01	
LITHOLOGIC / SOIL SAMPLING LOG					Logged By: TC		Method: Hand Auger	
Lat/Long: 32.196740,-104.157593			Field Screening: Chloride, PID			Hole Diameter: 0.5'		Total Depth: 1'
Comments: all chloride field screenings contain a correction factor of 40%								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0	0		
D	<130	0.1	N	BH08	0.5'		GP/GM CH	Poorly graded gravel/caliche with, sand and silt, no odor, dry no staining, tan brown color,
D	<130	0.1	N		1'	1	GP/GM SAA CH	

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2180-1

Laboratory Sample Delivery Group: 31403665.011 task 02
Client Project/Site: Road Runner Delivery

For:

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

Attn: Travis Casey

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

Authorized for release by:
4/18/2022 1:28:26 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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

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

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Laboratory Job ID: 890-2180-1
SDG: 31403665.011 task 02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Job ID: 890-2180-1

Laboratory: Eurofins Carlsbad

Narrative	
	Job Narrative 890-2180-1

Receipt

The samples were received on 4/11/2022 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23395 and analytical batch 880-23429 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.

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: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS01

Lab Sample ID: 890-2180-1

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:17	04/13/22 08:26	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:26	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:26	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 08:26	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:26	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 08:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	72		70 - 130	04/12/22 14:17	04/13/22 08:26	1
1,4-Difluorobenzene (Surr)	81		70 - 130	04/12/22 14:17	04/13/22 08:26	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 11:28	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		04/12/22 13:16	04/13/22 11:28	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 11:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	04/12/22 13:16	04/13/22 11:28	1
o-Terphenyl	107		70 - 130	04/12/22 13:16	04/13/22 11:28	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.2		4.96	mg/Kg			04/16/22 16:13	1

Client Sample ID: FS02

Lab Sample ID: 890-2180-2

Date Collected: 04/08/22 13:45

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 08:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 08:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 08:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/12/22 14:17	04/13/22 08:53	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS02

Lab Sample ID: 890-2180-2

Date Collected: 04/08/22 13:45

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	87		70 - 130	04/12/22 14:17	04/13/22 08:53	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 12:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 12:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 12:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	105		70 - 130			04/12/22 13:16	04/13/22 12:31	1
o-Terphenyl	124		70 - 130			04/12/22 13:16	04/13/22 12:31	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.1		5.05	mg/Kg			04/16/22 16:19	1

Client Sample ID: FS03

Lab Sample ID: 890-2180-3

Date Collected: 04/08/22 12:45

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 09:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 09:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 09:20	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/12/22 14:17	04/13/22 09:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 09:20	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/12/22 14:17	04/13/22 09:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/12/22 14:17	04/13/22 09:20	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/12/22 14:17	04/13/22 09:20	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			04/13/22 10:18	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			04/14/22 14:43	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS03

Lab Sample ID: 890-2180-3

Date Collected: 04/08/22 12:45

Matrix: Solid

Date Received: 04/11/22 11:01

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	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 12:51	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 12:51	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 12:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/12/22 13:16	04/13/22 12:51	1
o-Terphenyl	105		70 - 130			04/12/22 13:16	04/13/22 12:51	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	22.7		5.01	mg/Kg			04/16/22 16:38	1

Client Sample ID: FS04

Lab Sample ID: 890-2180-4

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:17	04/13/22 09:46	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 09:46	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 09:46	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 09:46	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 09:46	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 09:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			04/12/22 14:17	04/13/22 09:46	1
1,4-Difluorobenzene (Surr)	88		70 - 130			04/12/22 14:17	04/13/22 09:46	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 13:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 13:12	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 13:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/12/22 13:16	04/13/22 13:12	1
o-Terphenyl	105		70 - 130			04/12/22 13:16	04/13/22 13:12	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS04

Lab Sample ID: 890-2180-4

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	74.3		4.99	mg/Kg			04/16/22 16:44	1

Client Sample ID: FS05

Lab Sample ID: 890-2180-5

Date Collected: 04/08/22 12:55

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/12/22 14:17	04/13/22 10:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115		70 - 130			04/12/22 14:17	04/13/22 10:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130			04/12/22 14:17	04/13/22 10:13	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 13:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 13:33	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 13:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/12/22 13:16	04/13/22 13:33	1
o-Terphenyl	105		70 - 130			04/12/22 13:16	04/13/22 13:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	46.2		5.00	mg/Kg			04/16/22 17:03	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS06

Lab Sample ID: 890-2180-6

Date Collected: 04/08/22 13:50

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 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		04/12/22 14:17	04/13/22 10:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/12/22 14:17	04/13/22 10:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:17	04/13/22 10:40	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/12/22 14:17	04/13/22 10:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	04/12/22 14:17	04/13/22 10:40	1
1,4-Difluorobenzene (Surr)	87		70 - 130	04/12/22 14:17	04/13/22 10:40	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 13:53	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 13:53	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 13:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	04/12/22 13:16	04/13/22 13:53	1
o-Terphenyl	104		70 - 130	04/12/22 13:16	04/13/22 13:53	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.2		4.99	mg/Kg			04/16/22 17:10	1

Client Sample ID: FS07

Lab Sample ID: 890-2180-7

Date Collected: 04/08/22 14:10

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:17	04/13/22 11:07	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 11:07	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 11:07	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 11:07	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 11:07	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 11:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	04/12/22 14:17	04/13/22 11:07	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS07

Lab Sample ID: 890-2180-7

Date Collected: 04/08/22 14:10

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	90		70 - 130	04/12/22 14:17	04/13/22 11:07	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 14:14	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:14	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/12/22 13:16	04/13/22 14:14	1
o-Terphenyl	104		70 - 130			04/12/22 13:16	04/13/22 14:14	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.1		4.96	mg/Kg			04/16/22 17:16	1

Client Sample ID: FS08

Lab Sample ID: 890-2180-8

Date Collected: 04/08/22 14:15

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 11:33	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 11:33	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 11:33	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/12/22 14:17	04/13/22 11:33	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 11:33	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/12/22 14:17	04/13/22 11:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	04/12/22 14:17	04/13/22 11:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130	04/12/22 14:17	04/13/22 11:33	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			04/13/22 10:18	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			04/14/22 14:43	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS08

Lab Sample ID: 890-2180-8

Date Collected: 04/08/22 14:15

Matrix: Solid

Date Received: 04/11/22 11:01

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	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			04/12/22 13:16	04/13/22 14:35	1
o-Terphenyl	103		70 - 130			04/12/22 13:16	04/13/22 14:35	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	34.2		5.00	mg/Kg			04/16/22 17:22	1

Client Sample ID: FS09

Lab Sample ID: 890-2180-9

Date Collected: 04/08/22 14:20

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:17	04/13/22 12:00	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:00	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:00	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 12:00	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:00	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 12:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			04/12/22 14:17	04/13/22 12:00	1
1,4-Difluorobenzene (Surr)	89		70 - 130			04/12/22 14:17	04/13/22 12:00	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 14:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:55	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 14:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			04/12/22 13:16	04/13/22 14:55	1
o-Terphenyl	117		70 - 130			04/12/22 13:16	04/13/22 14:55	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS09

Lab Sample ID: 890-2180-9

Date Collected: 04/08/22 14:20

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	59.6		4.95	mg/Kg			04/16/22 17:29	1

Client Sample ID: FS10

Lab Sample ID: 890-2180-10

Date Collected: 04/08/22 14:25

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:17	04/13/22 12:27	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:27	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 12:27	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:17	04/13/22 12:27	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:17	04/13/22 12:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130			04/12/22 14:17	04/13/22 12:27	1
1,4-Difluorobenzene (Surr)	92		70 - 130			04/12/22 14:17	04/13/22 12:27	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			04/13/22 10:18	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			04/14/22 14:43	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		04/12/22 13:16	04/13/22 15:16	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			04/12/22 13:16	04/13/22 15:16	1
o-Terphenyl	99		70 - 130			04/12/22 13:16	04/13/22 15:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.7		4.95	mg/Kg			04/16/22 17:35	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 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	DFBZ1				
		(70-130)	(70-130)				
890-2179-A-1-B MS	Matrix Spike	100	97				
890-2179-A-1-C MSD	Matrix Spike Duplicate	108	86				
890-2180-1	FS01	72	81				
890-2180-2	FS02	110	87				
890-2180-3	FS03	110	92				
890-2180-4	FS04	109	88				
890-2180-5	FS05	115	89				
890-2180-6	FS06	102	87				
890-2180-7	FS07	114	90				
890-2180-8	FS08	110	98				
890-2180-9	FS09	107	89				
890-2180-10	FS10	120	92				
LCS 880-23396/1-A	Lab Control Sample	104	101				
LCSD 880-23396/2-A	Lab Control Sample Dup	100	96				
MB 880-23326/5-A	Method Blank	73	86				
MB 880-23396/5-A	Method Blank	76	79				
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	OTPH1				
		(70-130)	(70-130)				
890-2180-1	FS01	90	107				
890-2180-1 MS	FS01	81	89				
890-2180-1 MSD	FS01	80	90				
890-2180-2	FS02	105	124				
890-2180-3	FS03	88	105				
890-2180-4	FS04	88	105				
890-2180-5	FS05	88	105				
890-2180-6	FS06	86	104				
890-2180-7	FS07	88	104				
890-2180-8	FS08	88	103				
890-2180-9	FS09	97	117				
890-2180-10	FS10	84	99				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	1CO2	OTPH2				
		(70-130)	(70-130)				
LCS 880-23395/2-A	Lab Control Sample	99	119				

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCSD 880-23395/3-A	Lab Control Sample Dup	100	118
MB 880-23395/1-A	Method Blank	91	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23326/5-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23326

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/11/22 16:58	04/12/22 12:36	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/11/22 16:58	04/12/22 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	73		70 - 130	04/11/22 16:58	04/12/22 12:36	1
1,4-Difluorobenzene (Surr)	86		70 - 130	04/11/22 16:58	04/12/22 12:36	1

Lab Sample ID: MB 880-23396/5-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23396

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 02:16	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 02:16	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 02:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/12/22 14:17	04/13/22 02:16	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:17	04/13/22 02:16	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/12/22 14:17	04/13/22 02:16	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	76		70 - 130	04/12/22 14:17	04/13/22 02:16	1
1,4-Difluorobenzene (Surr)	79		70 - 130	04/12/22 14:17	04/13/22 02:16	1

Lab Sample ID: LCS 880-23396/1-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23396

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08635		mg/Kg		86	70 - 130
Toluene	0.100	0.09348		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.08788		mg/Kg		88	70 - 130
m-Xylene & p-Xylene	0.200	0.1856		mg/Kg		93	70 - 130
o-Xylene	0.100	0.09659		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: LCSD 880-23396/2-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.07834		mg/Kg		78	70 - 130	10	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

Lab Sample ID: LCSD 880-23396/2-A

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23396

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.08179		mg/Kg		82	70 - 130	13	35
Ethylbenzene	0.100	0.08438		mg/Kg		84	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1702		mg/Kg		85	70 - 130	9	35
o-Xylene	0.100	0.08634		mg/Kg		86	70 - 130	11	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: 890-2179-A-1-B MS

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23396

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.0998	0.08237		mg/Kg		83	70 - 130
Toluene	<0.00200	U	0.0998	0.08510		mg/Kg		84	70 - 130
Ethylbenzene	<0.00200	U	0.0998	0.07691		mg/Kg		77	70 - 130
m-Xylene & p-Xylene	0.0110		0.200	0.1679		mg/Kg		79	70 - 130
o-Xylene	0.0102		0.0998	0.08103		mg/Kg		71	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-2179-A-1-C MSD

Matrix: Solid

Analysis Batch: 23363

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23396

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	0.1022		mg/Kg		102	70 - 130	21	35
Toluene	<0.00200	U	0.100	0.1089		mg/Kg		108	70 - 130	25	35
Ethylbenzene	<0.00200	U	0.100	0.09425		mg/Kg		94	70 - 130	20	35
m-Xylene & p-Xylene	0.0110		0.200	0.2063		mg/Kg		97	70 - 130	21	35
o-Xylene	0.0102		0.100	0.1009		mg/Kg		91	70 - 130	22	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

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

Lab Sample ID: MB 880-23395/1-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23395

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		04/12/22 13:16	04/13/22 10:27	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

Lab Sample ID: MB 880-23395/1-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23395

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		04/12/22 13:16	04/13/22 10:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 10:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/12/22 13:16	04/13/22 10:27	1
o-Terphenyl	109		70 - 130			04/12/22 13:16	04/13/22 10:27	1

Lab Sample ID: LCS 880-23395/2-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	862.6		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1023		mg/Kg		102	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	99		70 - 130				
o-Terphenyl	119		70 - 130				

Lab Sample ID: LCSD 880-23395/3-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23395

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	20	20
Diesel Range Organics (Over C10-C28)	1000	912.0		mg/Kg		91	70 - 130	11	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	100		70 - 130						
o-Terphenyl	118		70 - 130						

Lab Sample ID: 890-2180-1 MS

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 23395

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	1000	783.7		mg/Kg		78	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	705.8	F1	mg/Kg		69	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	81		70 - 130						
o-Terphenyl	89		70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

Lab Sample ID: 890-2180-1 MSD

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: FS01

Prep Type: Total/NA

Prep Batch: 23395

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	998	789.7		mg/Kg		79	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	714.7		mg/Kg		70	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	80		70 - 130								
o-Terphenyl	90		70 - 130								

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23467/1-A

Matrix: Solid

Analysis Batch: 23681

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			04/16/22 14:31	1

Lab Sample ID: LCS 880-23467/2-A

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	250	259.8		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-23467/3-A

Matrix: Solid

Analysis Batch: 23681

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	266.6		mg/Kg		107	90 - 110	3	20

Lab Sample ID: 890-2180-2 MS

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	59.1		253	308.6		mg/Kg		99	90 - 110

Lab Sample ID: 890-2180-2 MSD

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: FS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.1		253	313.6		mg/Kg		101	90 - 110	2	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

GC VOA

Prep Batch: 23326

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23326/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 23363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	8021B	23396
890-2180-2	FS02	Total/NA	Solid	8021B	23396
890-2180-3	FS03	Total/NA	Solid	8021B	23396
890-2180-4	FS04	Total/NA	Solid	8021B	23396
890-2180-5	FS05	Total/NA	Solid	8021B	23396
890-2180-6	FS06	Total/NA	Solid	8021B	23396
890-2180-7	FS07	Total/NA	Solid	8021B	23396
890-2180-8	FS08	Total/NA	Solid	8021B	23396
890-2180-9	FS09	Total/NA	Solid	8021B	23396
890-2180-10	FS10	Total/NA	Solid	8021B	23396
MB 880-23326/5-A	Method Blank	Total/NA	Solid	8021B	23326
MB 880-23396/5-A	Method Blank	Total/NA	Solid	8021B	23396
LCS 880-23396/1-A	Lab Control Sample	Total/NA	Solid	8021B	23396
LCSD 880-23396/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23396
890-2179-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	23396
890-2179-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23396

Prep Batch: 23396

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	5035	
890-2180-2	FS02	Total/NA	Solid	5035	
890-2180-3	FS03	Total/NA	Solid	5035	
890-2180-4	FS04	Total/NA	Solid	5035	
890-2180-5	FS05	Total/NA	Solid	5035	
890-2180-6	FS06	Total/NA	Solid	5035	
890-2180-7	FS07	Total/NA	Solid	5035	
890-2180-8	FS08	Total/NA	Solid	5035	
890-2180-9	FS09	Total/NA	Solid	5035	
890-2180-10	FS10	Total/NA	Solid	5035	
MB 880-23396/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23396/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23396/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2179-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2179-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 23444

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	Total BTEX	
890-2180-2	FS02	Total/NA	Solid	Total BTEX	
890-2180-3	FS03	Total/NA	Solid	Total BTEX	
890-2180-4	FS04	Total/NA	Solid	Total BTEX	
890-2180-5	FS05	Total/NA	Solid	Total BTEX	
890-2180-6	FS06	Total/NA	Solid	Total BTEX	
890-2180-7	FS07	Total/NA	Solid	Total BTEX	
890-2180-8	FS08	Total/NA	Solid	Total BTEX	
890-2180-9	FS09	Total/NA	Solid	Total BTEX	
890-2180-10	FS10	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

GC Semi VOA

Prep Batch: 23395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	8015NM Prep	
890-2180-2	FS02	Total/NA	Solid	8015NM Prep	
890-2180-3	FS03	Total/NA	Solid	8015NM Prep	
890-2180-4	FS04	Total/NA	Solid	8015NM Prep	
890-2180-5	FS05	Total/NA	Solid	8015NM Prep	
890-2180-6	FS06	Total/NA	Solid	8015NM Prep	
890-2180-7	FS07	Total/NA	Solid	8015NM Prep	
890-2180-8	FS08	Total/NA	Solid	8015NM Prep	
890-2180-9	FS09	Total/NA	Solid	8015NM Prep	
890-2180-10	FS10	Total/NA	Solid	8015NM Prep	
MB 880-23395/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23395/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2180-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-2180-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	8015B NM	23395
890-2180-2	FS02	Total/NA	Solid	8015B NM	23395
890-2180-3	FS03	Total/NA	Solid	8015B NM	23395
890-2180-4	FS04	Total/NA	Solid	8015B NM	23395
890-2180-5	FS05	Total/NA	Solid	8015B NM	23395
890-2180-6	FS06	Total/NA	Solid	8015B NM	23395
890-2180-7	FS07	Total/NA	Solid	8015B NM	23395
890-2180-8	FS08	Total/NA	Solid	8015B NM	23395
890-2180-9	FS09	Total/NA	Solid	8015B NM	23395
890-2180-10	FS10	Total/NA	Solid	8015B NM	23395
MB 880-23395/1-A	Method Blank	Total/NA	Solid	8015B NM	23395
LCS 880-23395/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23395
LCSD 880-23395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23395
890-2180-1 MS	FS01	Total/NA	Solid	8015B NM	23395
890-2180-1 MSD	FS01	Total/NA	Solid	8015B NM	23395

Analysis Batch: 23543

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Total/NA	Solid	8015 NM	
890-2180-2	FS02	Total/NA	Solid	8015 NM	
890-2180-3	FS03	Total/NA	Solid	8015 NM	
890-2180-4	FS04	Total/NA	Solid	8015 NM	
890-2180-5	FS05	Total/NA	Solid	8015 NM	
890-2180-6	FS06	Total/NA	Solid	8015 NM	
890-2180-7	FS07	Total/NA	Solid	8015 NM	
890-2180-8	FS08	Total/NA	Solid	8015 NM	
890-2180-9	FS09	Total/NA	Solid	8015 NM	
890-2180-10	FS10	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

HPLC/IC

Leach Batch: 23467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Soluble	Solid	DI Leach	
890-2180-2	FS02	Soluble	Solid	DI Leach	
890-2180-3	FS03	Soluble	Solid	DI Leach	
890-2180-4	FS04	Soluble	Solid	DI Leach	
890-2180-5	FS05	Soluble	Solid	DI Leach	
890-2180-6	FS06	Soluble	Solid	DI Leach	
890-2180-7	FS07	Soluble	Solid	DI Leach	
890-2180-8	FS08	Soluble	Solid	DI Leach	
890-2180-9	FS09	Soluble	Solid	DI Leach	
890-2180-10	FS10	Soluble	Solid	DI Leach	
MB 880-23467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2180-2 MS	FS02	Soluble	Solid	DI Leach	
890-2180-2 MSD	FS02	Soluble	Solid	DI Leach	

Analysis Batch: 23681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2180-1	FS01	Soluble	Solid	300.0	23467
890-2180-2	FS02	Soluble	Solid	300.0	23467
890-2180-3	FS03	Soluble	Solid	300.0	23467
890-2180-4	FS04	Soluble	Solid	300.0	23467
890-2180-5	FS05	Soluble	Solid	300.0	23467
890-2180-6	FS06	Soluble	Solid	300.0	23467
890-2180-7	FS07	Soluble	Solid	300.0	23467
890-2180-8	FS08	Soluble	Solid	300.0	23467
890-2180-9	FS09	Soluble	Solid	300.0	23467
890-2180-10	FS10	Soluble	Solid	300.0	23467
MB 880-23467/1-A	Method Blank	Soluble	Solid	300.0	23467
LCS 880-23467/2-A	Lab Control Sample	Soluble	Solid	300.0	23467
LCSD 880-23467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23467
890-2180-2 MS	FS02	Soluble	Solid	300.0	23467
890-2180-2 MSD	FS02	Soluble	Solid	300.0	23467

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS01

Lab Sample ID: 890-2180-1

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 08:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 11:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 16:13	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-2180-2

Date Collected: 04/08/22 13:45

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 08:53	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 12:31	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 16:19	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-2180-3

Date Collected: 04/08/22 12:45

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 09:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 12:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 16:38	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-2180-4

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 09:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS04

Lab Sample ID: 890-2180-4

Date Collected: 04/08/22 12:50

Matrix: Solid

Date Received: 04/11/22 11:01

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			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 13:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 16:44	CH	XEN MID

Client Sample ID: FS05

Lab Sample ID: 890-2180-5

Date Collected: 04/08/22 12:55

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 10:13	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 13:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:03	CH	XEN MID

Client Sample ID: FS06

Lab Sample ID: 890-2180-6

Date Collected: 04/08/22 13:50

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 10:40	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:10	CH	XEN MID

Client Sample ID: FS07

Lab Sample ID: 890-2180-7

Date Collected: 04/08/22 14:10

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 11:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 14:14	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Client Sample ID: FS07

Lab Sample ID: 890-2180-7

Date Collected: 04/08/22 14:10

Matrix: Solid

Date Received: 04/11/22 11:01

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.04 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:16	CH	XEN MID

Client Sample ID: FS08

Lab Sample ID: 890-2180-8

Date Collected: 04/08/22 14:15

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 11:33	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 14:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:22	CH	XEN MID

Client Sample ID: FS09

Lab Sample ID: 890-2180-9

Date Collected: 04/08/22 14:20

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 12:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:29	CH	XEN MID

Client Sample ID: FS10

Lab Sample ID: 890-2180-10

Date Collected: 04/08/22 14:25

Matrix: Solid

Date Received: 04/11/22 11:01

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	23396	04/12/22 14:17	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23363	04/13/22 12:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23444	04/13/22 10:18	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23543	04/14/22 14:43	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:35	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2180-1
SDG: 31403665.011 task 02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2180-1	FS01	Solid	04/08/22 12:50	04/11/22 11:01	4
890-2180-2	FS02	Solid	04/08/22 13:45	04/11/22 11:01	5
890-2180-3	FS03	Solid	04/08/22 12:45	04/11/22 11:01	4
890-2180-4	FS04	Solid	04/08/22 12:50	04/11/22 11:01	4
890-2180-5	FS05	Solid	04/08/22 12:55	04/11/22 11:01	4
890-2180-6	FS06	Solid	04/08/22 13:50	04/11/22 11:01	5
890-2180-7	FS07	Solid	04/08/22 14:10	04/11/22 11:01	4
890-2180-8	FS08	Solid	04/08/22 14:15	04/11/22 11:01	4
890-2180-9	FS09	Solid	04/08/22 14:20	04/11/22 11:01	4
890-2180-10	FS10	Solid	04/08/22 14:25	04/11/22 11:01	4



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


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Chain of Custody

Work Order No: _____

Project Manager:		Travis Casey	Bill to: (if different)	Lucid Energy Group
Company Name:		WSP USA	Company Name:	Michael Gant
Address:		508 W Stevens St	Address:	201 S 4th
City, State ZIP:		Carlsbad, NM, 88220	City, State ZIP:	Artesia, NM 88210
Phone:		575-689-5949	Email:	mgant@lucid-energy.com, Travis.Casey@wsp.com

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

Project Name:	Road Runner Justice Delivery	Turn Around
Project Number:	31403665.011 Task 02	Routine <input checked="" type="checkbox"/>
P.O. Number:		Rush:
Sampler's Name:	Mercy Roitch.	Due Date:
SAMPLE RECEIPT	Temp Blank: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Wet Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	5.8/5.4	Thermometer ID
Received intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	TMM-007
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Correction Factor:
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Total Containers:
Number of Containers		
EPA 8015)		
EPA 0=8021)		
le (EPA 300.0)		
ANALYSIS REQUEST		
 890-2180 Chain of Custody		
TAT starts the day received by the lab, if received by 4:30pm		
Work Order Notes		

[illegible]

Total 200.7 / 6010 200.8 / 6020:

Circle Method(s) and Metal(s) to be analyzed

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

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

	Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1	<i>Kinga</i>	<i>Cie Corp</i>	4.11.22 1101	2		
3				4		
5				6		

Revised Date 05/11/18 Rev 2018

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2180-1

SDG Number: 31403665.011 task 02

Login Number: 2180

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2180-1

SDG Number: 31403665.011 task 02

Login Number: 2180

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/12/22 11:16 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2181-1

Laboratory Sample Delivery Group: 31403665.011 task 02
Client Project/Site: Road Runner Delivery

For:

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

Attn: Travis Casey

A handwritten signature in black ink, appearing to read "Jessica Kramer".

Authorized for release by:
4/18/2022 4:08:48 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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

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

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Laboratory Job ID: 890-2181-1
SDG: 31403665.011 task 02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Qualifiers

GC VOA

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

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Job ID: 890-2181-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2181-1****Receipt**

The samples were received on 4/11/2022 11:01 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-23395 and analytical batch 880-23429 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.

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: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS11

Lab Sample ID: 890-2181-1

Date Collected: 04/08/22 14:40

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:43	04/13/22 02:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:43	04/13/22 02:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:43	04/13/22 02:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/12/22 14:43	04/13/22 02:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/12/22 14:43	04/13/22 02:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/12/22 14:43	04/13/22 02:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/12/22 14:43	04/13/22 02:00	1
1,4-Difluorobenzene (Surr)	91		70 - 130	04/12/22 14:43	04/13/22 02:00	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			04/13/22 11:39	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			04/14/22 13:42	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		04/12/22 13:16	04/13/22 15:58	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 15:58	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 15:58	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130	04/12/22 13:16	04/13/22 15:58	1
o-Terphenyl	99		70 - 130	04/12/22 13:16	04/13/22 15:58	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.4		4.98	mg/Kg			04/16/22 17:41	1

Client Sample ID: FS12

Lab Sample ID: 890-2181-2

Date Collected: 04/08/22 14:45

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:43	04/13/22 02:20	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:20	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:20	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:43	04/13/22 02:20	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:20	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:43	04/13/22 02:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	04/12/22 14:43	04/13/22 02:20	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS12

Lab Sample ID: 890-2181-2

Date Collected: 04/08/22 14:45

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	04/12/22 14:43	04/13/22 02:20	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			04/13/22 11:39	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			04/14/22 13:42	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		04/12/22 13:16	04/13/22 16:18	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 16:18	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 16:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			04/12/22 13:16	04/13/22 16:18	1
o-Terphenyl	101		70 - 130			04/12/22 13:16	04/13/22 16:18	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	158		4.99	mg/Kg			04/16/22 16:55	1

Client Sample ID: FS13

Lab Sample ID: 890-2181-3

Date Collected: 04/08/22 14:50

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 14:43	04/13/22 02:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/12/22 14:43	04/13/22 02:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/12/22 14:43	04/13/22 02:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/12/22 14:43	04/13/22 02:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		70 - 130	04/12/22 14:43	04/13/22 02:41	1
1,4-Difluorobenzene (Surr)	94		70 - 130	04/12/22 14:43	04/13/22 02:41	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			04/13/22 11:39	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			04/14/22 13:42	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS13

Lab Sample ID: 890-2181-3

Date Collected: 04/08/22 14:50

Matrix: Solid

Date Received: 04/11/22 11:01

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		04/12/22 13:16	04/13/22 16:39	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 16:39	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 13:16	04/13/22 16:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	84		70 - 130			04/12/22 13:16	04/13/22 16:39	1
o-Terphenyl	100		70 - 130			04/12/22 13:16	04/13/22 16:39	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	31.3		4.95	mg/Kg			04/16/22 17:04	1

Client Sample ID: FS14

Lab Sample ID: 890-2181-4

Date Collected: 04/08/22 14:55

Matrix: Solid

Date Received: 04/11/22 11:01

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		04/12/22 14:43	04/13/22 03:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130			04/12/22 14:43	04/13/22 03:01	1
1,4-Difluorobenzene (Surr)	99		70 - 130			04/12/22 14:43	04/13/22 03:01	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			04/13/22 11:39	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			04/14/22 13:42	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		04/12/22 11:00	04/13/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/12/22 11:00	04/13/22 16:59	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/12/22 11:00	04/13/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130			04/12/22 11:00	04/13/22 16:59	1
o-Terphenyl	91		70 - 130			04/12/22 11:00	04/13/22 16:59	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS14
Date Collected: 04/08/22 14:55
Date Received: 04/11/22 11:01
Sample Depth: 4

Lab Sample ID: 890-2181-4
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	342		5.03	mg/Kg			04/16/22 17:13	1	

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2176-A-11-B MS	Matrix Spike	97	102
890-2176-A-11-C MSD	Matrix Spike Duplicate	98	90
890-2181-1	FS11	101	91
890-2181-2	FS12	119	100
890-2181-3	FS13	94	94
890-2181-4	FS14	97	99
LCS 880-23399/1-A	Lab Control Sample	99	103
LCSD 880-23399/2-A	Lab Control Sample Dup	100	102
MB 880-23328/5-A	Method Blank	97	100
MB 880-23399/5-A	Method Blank	100	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)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-2175-A-31-B MS	Matrix Spike	120	109
890-2175-A-31-C MSD	Matrix Spike Duplicate	118	111
890-2180-A-1-B MS	Matrix Spike	81	89
890-2180-A-1-C MSD	Matrix Spike Duplicate	80	90
890-2181-1	FS11	84	99
890-2181-2	FS12	86	101
890-2181-3	FS13	84	100
890-2181-4	FS14	96	91
LCS 880-23323/2-A	Lab Control Sample	103	92
LCSD 880-23323/3-A	Lab Control Sample Dup	104	93
MB 880-23323/1-A	Method Blank	108	110
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23395/2-A	Lab Control Sample	99	119
LCSD 880-23395/3-A	Lab Control Sample Dup	100	118
MB 880-23395/1-A	Method Blank	91	109
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23328/5-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23328

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/11/22 17:03	04/12/22 11:58	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/11/22 17:03	04/12/22 11:58	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	04/11/22 17:03	04/12/22 11:58	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/11/22 17:03	04/12/22 11:58	1

Lab Sample ID: MB 880-23399/5-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23399

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/12/22 14:43	04/13/22 00:09	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/12/22 14:43	04/13/22 00:09	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/12/22 14:43	04/13/22 00:09	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/12/22 14:43	04/13/22 00:09	1

Lab Sample ID: LCS 880-23399/1-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.08430		mg/Kg		84	70 - 130
Toluene	0.100	0.09329		mg/Kg		93	70 - 130
Ethylbenzene	0.100	0.09666		mg/Kg		97	70 - 130
m-Xylene & p-Xylene	0.200	0.1931		mg/Kg		97	70 - 130
o-Xylene	0.100	0.09657		mg/Kg		97	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-23399/2-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.08654		mg/Kg		87	70 - 130	3	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

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

Lab Sample ID: LCSD 880-23399/2-A

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Toluene	0.100	0.09685		mg/Kg		97	70 - 130	4	35
Ethylbenzene	0.100	0.1007		mg/Kg		101	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.2012		mg/Kg		101	70 - 130	4	35
o-Xylene	0.100	0.1001		mg/Kg		100	70 - 130	4	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2176-A-11-B MS

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00200	U	0.100	0.1241		mg/Kg		124	70 - 130
Toluene	<0.00200	U	0.100	0.1247		mg/Kg		124	70 - 130
Ethylbenzene	<0.00200	U	0.100	0.1125		mg/Kg		112	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2328		mg/Kg		116	70 - 130
o-Xylene	<0.00200	U	0.100	0.1091		mg/Kg		109	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 890-2176-A-11-C MSD

Matrix: Solid

Analysis Batch: 23365

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23399

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.101	0.09602		mg/Kg		95	70 - 130	26	35
Toluene	<0.00200	U	0.101	0.1114		mg/Kg		111	70 - 130	11	35
Ethylbenzene	<0.00200	U	0.101	0.1028		mg/Kg		102	70 - 130	9	35
m-Xylene & p-Xylene	<0.00399	U	0.202	0.2151		mg/Kg		107	70 - 130	8	35
o-Xylene	<0.00200	U	0.101	0.1007		mg/Kg		100	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

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

Lab Sample ID: MB 880-23323/1-A

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23323

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		04/11/22 16:44	04/13/22 10:24	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

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

Lab Sample ID: MB 880-23323/1-A

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23323

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		04/11/22 16:44	04/13/22 10:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/11/22 16:44	04/13/22 10:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			04/11/22 16:44	04/13/22 10:24	1
o-Terphenyl	110		70 - 130			04/11/22 16:44	04/13/22 10:24	1

Lab Sample ID: LCS 880-23323/2-A

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23323

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1179		mg/Kg		118	70 - 130
Diesel Range Organics (Over C10-C28)	1000	944.4		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	103		70 - 130				
o-Terphenyl	92		70 - 130				

Lab Sample ID: LCSD 880-23323/3-A

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23323

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1064		mg/Kg		106	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	1000	909.3		mg/Kg		91	70 - 130	4	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	104		70 - 130						
o-Terphenyl	93		70 - 130						

Lab Sample ID: 890-2175-A-31-B MS

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23323

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	998	1058		mg/Kg		106	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	998	1022		mg/Kg		99	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	120		70 - 130						
o-Terphenyl	109		70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

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

Lab Sample ID: 890-2175-A-31-C MSD

Matrix: Solid

Analysis Batch: 23431

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23323

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	997	1140		mg/Kg		114	70 - 130	7	20
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1061		mg/Kg		103	70 - 130	4	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	118		70 - 130								
o-Terphenyl	111		70 - 130								

Lab Sample ID: MB 880-23395/1-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23395

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		04/12/22 13:16	04/13/22 10:27	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 10:27	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/12/22 13:16	04/13/22 10:27	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/12/22 13:16	04/13/22 10:27	1
o-Terphenyl	109		70 - 130			04/12/22 13:16	04/13/22 10:27	1

Lab Sample ID: LCS 880-23395/2-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Gasoline Range Organics (GRO)-C6-C10	1000	862.6		mg/Kg		86	70 - 130	
Diesel Range Organics (Over C10-C28)	1000	1023		mg/Kg		102	70 - 130	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
1-Chlorooctane	99		70 - 130					
o-Terphenyl	119		70 - 130					

Lab Sample ID: LCSD 880-23395/3-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23395

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	20	20
Diesel Range Organics (Over C10-C28)	1000	912.0		mg/Kg		91	70 - 130	11	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

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

Lab Sample ID: LCSD 880-23395/3-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23395

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	100		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: 890-2180-A-1-B MS

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23395

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	783.7		mg/Kg		78	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	1000	705.8	F1	mg/Kg		69	70 - 130	

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	81		70 - 130
o-Terphenyl	89		70 - 130

Lab Sample ID: 890-2180-A-1-C MSD

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23395

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	789.7		mg/Kg		79	70 - 130	1	20	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	998	714.7		mg/Kg		70	70 - 130	1	20	

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	80		70 - 130
o-Terphenyl	90		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23467/1-A

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			04/16/22 14:31	1		

Lab Sample ID: LCS 880-23467/2-A

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS						%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	250	259.8		mg/Kg		104	90 - 110			

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-23467/3-A

Matrix: Solid

Analysis Batch: 23681

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	266.6		mg/Kg		107	90 - 110	3	20

Lab Sample ID: 890-2180-A-2-D MS

Matrix: Solid

Analysis Batch: 23681

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	59.1		253	308.6		mg/Kg		99	90 - 110		

Lab Sample ID: 890-2180-A-2-E MSD

Matrix: Solid

Analysis Batch: 23681

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	59.1		253	313.6		mg/Kg		101	90 - 110	2	20

Lab Sample ID: MB 880-23533/1-A

Matrix: Solid

Analysis Batch: 23692

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			04/16/22 14:46	1

Lab Sample ID: LCS 880-23533/2-A

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	244.5		mg/Kg		98	90 - 110		

Lab Sample ID: LCSD 880-23533/3-A

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	250	242.4		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-2184-A-1-H MS

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.5		252	313.2		mg/Kg		98	90 - 110		

Lab Sample ID: 890-2184-A-1-I MSD

Matrix: Solid

Analysis Batch: 23692

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	66.5		252	313.0		mg/Kg		98	90 - 110	0	20

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

GC VOA

Prep Batch: 23328

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23328/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 23365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	8021B	23399
890-2181-2	FS12	Total/NA	Solid	8021B	23399
890-2181-3	FS13	Total/NA	Solid	8021B	23399
890-2181-4	FS14	Total/NA	Solid	8021B	23399
MB 880-23328/5-A	Method Blank	Total/NA	Solid	8021B	23328
MB 880-23399/5-A	Method Blank	Total/NA	Solid	8021B	23399
LCS 880-23399/1-A	Lab Control Sample	Total/NA	Solid	8021B	23399
LCSD 880-23399/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23399
890-2176-A-11-B MS	Matrix Spike	Total/NA	Solid	8021B	23399
890-2176-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23399

Prep Batch: 23399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	5035	
890-2181-2	FS12	Total/NA	Solid	5035	
890-2181-3	FS13	Total/NA	Solid	5035	
890-2181-4	FS14	Total/NA	Solid	5035	
MB 880-23399/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23399/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23399/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2176-A-11-B MS	Matrix Spike	Total/NA	Solid	5035	
890-2176-A-11-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 23463

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	Total BTEX	
890-2181-2	FS12	Total/NA	Solid	Total BTEX	
890-2181-3	FS13	Total/NA	Solid	Total BTEX	
890-2181-4	FS14	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 23323

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-4	FS14	Total/NA	Solid	8015NM Prep	
MB 880-23323/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23323/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23323/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2175-A-31-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2175-A-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Prep Batch: 23395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	8015NM Prep	
890-2181-2	FS12	Total/NA	Solid	8015NM Prep	
890-2181-3	FS13	Total/NA	Solid	8015NM Prep	
MB 880-23395/1-A	Method Blank	Total/NA	Solid	8015NM Prep	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

GC Semi VOA (Continued)

Prep Batch: 23395 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-23395/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2180-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2180-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	8015B NM	23395
890-2181-2	FS12	Total/NA	Solid	8015B NM	23395
890-2181-3	FS13	Total/NA	Solid	8015B NM	23395
MB 880-23395/1-A	Method Blank	Total/NA	Solid	8015B NM	23395
LCS 880-23395/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23395
LCSD 880-23395/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23395
890-2180-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	23395
890-2180-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23395

Analysis Batch: 23431

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-4	FS14	Total/NA	Solid	8015B NM	23323
MB 880-23323/1-A	Method Blank	Total/NA	Solid	8015B NM	23323
LCS 880-23323/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23323
LCSD 880-23323/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23323
890-2175-A-31-B MS	Matrix Spike	Total/NA	Solid	8015B NM	23323
890-2175-A-31-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23323

Analysis Batch: 23530

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Total/NA	Solid	8015 NM	
890-2181-2	FS12	Total/NA	Solid	8015 NM	
890-2181-3	FS13	Total/NA	Solid	8015 NM	
890-2181-4	FS14	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 23467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Soluble	Solid	DI Leach	
MB 880-23467/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23467/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23467/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2180-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2180-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Leach Batch: 23533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-2	FS12	Soluble	Solid	DI Leach	
890-2181-3	FS13	Soluble	Solid	DI Leach	
890-2181-4	FS14	Soluble	Solid	DI Leach	
MB 880-23533/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23533/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23533/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

HPLC/IC (Continued)

Leach Batch: 23533 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2184-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 23681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-1	FS11	Soluble	Solid	300.0	23467
MB 880-23467/1-A	Method Blank	Soluble	Solid	300.0	23467
LCS 880-23467/2-A	Lab Control Sample	Soluble	Solid	300.0	23467
LCSD 880-23467/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23467
890-2180-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	23467
890-2180-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23467

Analysis Batch: 23692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2181-2	FS12	Soluble	Solid	300.0	23533
890-2181-3	FS13	Soluble	Solid	300.0	23533
890-2181-4	FS14	Soluble	Solid	300.0	23533
MB 880-23533/1-A	Method Blank	Soluble	Solid	300.0	23533
LCS 880-23533/2-A	Lab Control Sample	Soluble	Solid	300.0	23533
LCSD 880-23533/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23533
890-2184-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	23533
890-2184-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	23533

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS11

Lab Sample ID: 890-2181-1

Date Collected: 04/08/22 14:40

Matrix: Solid

Date Received: 04/11/22 11:01

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	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 02:00	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23463	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23530	04/14/22 13:42	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 15:58	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	23467	04/13/22 12:25	CH	XEN MID
Soluble	Analysis	300.0		1			23681	04/16/22 17:41	CH	XEN MID

Client Sample ID: FS12

Lab Sample ID: 890-2181-2

Date Collected: 04/08/22 14:45

Matrix: Solid

Date Received: 04/11/22 11:01

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	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 02:20	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23463	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23530	04/14/22 13:42	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 16:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 16:55	CH	XEN MID

Client Sample ID: FS13

Lab Sample ID: 890-2181-3

Date Collected: 04/08/22 14:50

Matrix: Solid

Date Received: 04/11/22 11:01

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	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 02:41	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23463	04/13/22 11:39	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23530	04/14/22 13:42	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23395	04/12/22 13:16	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/13/22 16:39	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 17:04	CH	XEN MID

Client Sample ID: FS14

Lab Sample ID: 890-2181-4

Date Collected: 04/08/22 14:55

Matrix: Solid

Date Received: 04/11/22 11:01

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	23399	04/12/22 14:43	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23365	04/13/22 03:01	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23463	04/13/22 11:39	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Client Sample ID: FS14 Lab Sample ID: 890-2181-4
Date Collected: 04/08/22 14:55 Matrix: Solid
Date Received: 04/11/22 11:01

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			23530	04/14/22 13:42	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23323	04/12/22 11:00	AM	XEN MID
Total/NA	Analysis	8015B NM		1			23431	04/13/22 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 17:13	CH	XEN MID

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Laboratory: Eurofins Midland

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2181-1
SDG: 31403665.011 task 02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2181-1	FS11	Solid	04/08/22 14:40	04/11/22 11:01	4
890-2181-2	FS12	Solid	04/08/22 14:45	04/11/22 11:01	4
890-2181-3	FS13	Solid	04/08/22 14:50	04/11/22 11:01	4
890-2181-4	FS14	Solid	04/08/22 14:55	04/11/22 11:01	4

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2181-1

SDG Number: 31403665.011 task 02

Login Number: 2181

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2181-1

SDG Number: 31403665.011 task 02

Login Number: 2181

List Number: 2

Creator: Rodriguez, Leticia

List Source: Eurofins Midland

List Creation: 04/12/22 11:16 AM

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	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-2184-1

Laboratory Sample Delivery Group: 31403665.011 task 02
Client Project/Site: Road Runner Delivery

For:

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

Attn: Travis Casey

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

Authorized for release by:
4/18/2022 4:09:17 PM

Jessica Kramer, Project Manager
(432)704-5440
Jessica.Kramer@et.eurofinsus.com

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

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

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Laboratory Job ID: 890-2184-1
SDG: 31403665.011 task 02

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high 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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Job ID: 890-2184-1**Laboratory: Eurofins Carlsbad****Narrative****Job Narrative
890-2184-1****Receipt**

The samples were received on 4/11/2022 4:04 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 5.3°C

GC VOA

Method 8021B: The laboratory control sample (LCS) associated with preparation batch 880-23548 and analytical batch 880-23567 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.

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-23434 and analytical batch 880-23435 recovered outside control limits for the following analytes: <AffectedAnalytes>.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: (LCS 880-23451/2-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

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: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS15

Lab Sample ID: 890-2184-1

Date Collected: 04/11/22 11:40

Matrix: Solid

Date Received: 04/11/22 16:04

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		04/14/22 14:57	04/16/22 04:24	1
Toluene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 04:24	1
Ethylbenzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 04:24	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 04:24	1
o-Xylene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 04:24	1
Xylenes, Total	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 04:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/14/22 14:57	04/16/22 04:24	1
1,4-Difluorobenzene (Surr)	100		70 - 130	04/14/22 14:57	04/16/22 04:24	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			04/18/22 15:15	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			04/14/22 13:25	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	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 16:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 16:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/13/22 09:18	04/13/22 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	04/13/22 09:18	04/13/22 16:38	1
o-Terphenyl	106		70 - 130	04/13/22 09:18	04/13/22 16:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	66.5		5.03	mg/Kg			04/16/22 17:22	1

Client Sample ID: FS16

Lab Sample ID: 890-2184-2

Date Collected: 04/11/22 13:05

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 04:45	1
Toluene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 04:45	1
Ethylbenzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 04:45	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 04:45	1
o-Xylene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 04:45	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 04:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		70 - 130	04/14/22 14:57	04/16/22 04:45	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS16

Lab Sample ID: 890-2184-2

Date Collected: 04/11/22 13:05

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	98		70 - 130	04/14/22 14:57	04/16/22 04:45	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			04/18/22 15:15	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			04/14/22 13:25	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	<49.8	U *1	49.8	mg/Kg		04/13/22 09:18	04/13/22 16:59	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8	mg/Kg		04/13/22 09:18	04/13/22 16:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		04/13/22 09:18	04/13/22 16:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/13/22 09:18	04/13/22 16:59	1
o-Terphenyl	116		70 - 130			04/13/22 09:18	04/13/22 16:59	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.1		5.04	mg/Kg			04/16/22 17:50	1

Client Sample ID: FS17

Lab Sample ID: 890-2184-3

Date Collected: 04/11/22 13:10

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:05	1
Toluene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:05	1
Ethylbenzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:05	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403	mg/Kg		04/14/22 14:57	04/16/22 05:05	1
o-Xylene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:05	1
Xylenes, Total	<0.00403	U **	0.00403	mg/Kg		04/14/22 14:57	04/16/22 05:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130	04/14/22 14:57	04/16/22 05:05	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/14/22 14:57	04/16/22 05:05	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			04/18/22 15:15	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			04/14/22 13:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS17

Lab Sample ID: 890-2184-3

Date Collected: 04/11/22 13:10

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 17:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 17:41	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/13/22 09:18	04/13/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/13/22 09:18	04/13/22 17:41	1
o-Terphenyl	115		70 - 130			04/13/22 09:18	04/13/22 17:41	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			04/16/22 17:59	1

Client Sample ID: FS18

Lab Sample ID: 890-2184-4

Date Collected: 04/11/22 13:15

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U **	0.00199	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
Toluene	<0.00199	U **	0.00199	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
Ethylbenzene	<0.00199	U **	0.00199	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
m-Xylene & p-Xylene	<0.00398	U **	0.00398	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
o-Xylene	<0.00199	U **	0.00199	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
Xylenes, Total	<0.00398	U **	0.00398	mg/Kg		04/14/22 14:57	04/16/22 05:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			04/14/22 14:57	04/16/22 05:26	1
1,4-Difluorobenzene (Surr)	100		70 - 130			04/14/22 14:57	04/16/22 05:26	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			04/18/22 15:15	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			04/14/22 13:25	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 *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:02	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:02	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	119		70 - 130			04/13/22 09:18	04/13/22 18:02	1
o-Terphenyl	123		70 - 130			04/13/22 09:18	04/13/22 18:02	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS18

Lab Sample ID: 890-2184-4

Date Collected: 04/11/22 13:15

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6.73		4.99	mg/Kg			04/16/22 18:27	1

Client Sample ID: FS19

Lab Sample ID: 890-2184-5

Date Collected: 04/11/22 13:20

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
Toluene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
Ethylbenzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
o-Xylene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
Xylenes, Total	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 05:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/14/22 14:57	04/16/22 05:46	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/14/22 14:57	04/16/22 05:46	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			04/18/22 15:15	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			04/14/22 13:25	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 *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:23	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			04/13/22 09:18	04/13/22 18:23	1
o-Terphenyl	114		70 - 130			04/13/22 09:18	04/13/22 18:23	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.97	U	4.97	mg/Kg			04/16/22 18:36	1

Eurofins Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS20

Lab Sample ID: 890-2184-6

Date Collected: 04/11/22 12:05

Matrix: Solid

Date Received: 04/11/22 16:04

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		04/14/22 14:57	04/16/22 06:07	1
Toluene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 06:07	1
Ethylbenzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 06:07	1
m-Xylene & p-Xylene	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 06:07	1
o-Xylene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 06:07	1
Xylenes, Total	<0.00404	U **	0.00404	mg/Kg		04/14/22 14:57	04/16/22 06:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/14/22 14:57	04/16/22 06:07	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/14/22 14:57	04/16/22 06:07	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			04/18/22 15:15	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			04/14/22 13:25	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 *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 09:18	04/13/22 18:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130	04/13/22 09:18	04/13/22 18:44	1
o-Terphenyl	114		70 - 130	04/13/22 09:18	04/13/22 18:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	10.9		5.03	mg/Kg			04/16/22 18:45	1

Client Sample ID: SW01

Lab Sample ID: 890-2184-7

Date Collected: 04/11/22 10:20

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 06:27	1
Toluene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 06:27	1
Ethylbenzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 06:27	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 06:27	1
o-Xylene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 06:27	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 06:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/14/22 14:57	04/16/22 06:27	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: SW01

Lab Sample ID: 890-2184-7

Date Collected: 04/11/22 10:20

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	04/14/22 14:57	04/16/22 06:27	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			04/18/22 15:15	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			04/14/22 13:25	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	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			04/13/22 09:18	04/13/22 19:05	1
o-Terphenyl	116		70 - 130			04/13/22 09:18	04/13/22 19:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.2		4.97	mg/Kg			04/16/22 18:54	1

Client Sample ID: SW02

Lab Sample ID: 890-2184-8

Date Collected: 04/11/22 10:25

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 4

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U **	0.00200	mg/Kg		04/14/22 14:57	04/16/22 06:48	1
Toluene	<0.00200	U **	0.00200	mg/Kg		04/14/22 14:57	04/16/22 06:48	1
Ethylbenzene	<0.00200	U **	0.00200	mg/Kg		04/14/22 14:57	04/16/22 06:48	1
m-Xylene & p-Xylene	<0.00400	U **	0.00400	mg/Kg		04/14/22 14:57	04/16/22 06:48	1
o-Xylene	<0.00200	U **	0.00200	mg/Kg		04/14/22 14:57	04/16/22 06:48	1
Xylenes, Total	<0.00400	U **	0.00400	mg/Kg		04/14/22 14:57	04/16/22 06:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	04/14/22 14:57	04/16/22 06:48	1
1,4-Difluorobenzene (Surr)	99		70 - 130	04/14/22 14:57	04/16/22 06:48	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			04/18/22 15:15	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			04/14/22 13:25	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: SW02

Lab Sample ID: 890-2184-8

Date Collected: 04/11/22 10:25

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 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 *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/13/22 09:18	04/13/22 19:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			04/13/22 09:18	04/13/22 19:25	1
o-Terphenyl	102		70 - 130			04/13/22 09:18	04/13/22 19:25	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	99.7		5.05	mg/Kg			04/16/22 19:04	1

Client Sample ID: SW03

Lab Sample ID: 890-2184-9

Date Collected: 04/11/22 10:30

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
Toluene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
Ethylbenzene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
m-Xylene & p-Xylene	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
o-Xylene	<0.00201	U **	0.00201	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
Xylenes, Total	<0.00402	U **	0.00402	mg/Kg		04/14/22 14:57	04/16/22 07:08	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			04/14/22 14:57	04/16/22 07:08	1
1,4-Difluorobenzene (Surr)	101		70 - 130			04/14/22 14:57	04/16/22 07:08	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			04/18/22 15:15	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			04/14/22 13:25	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		04/13/22 11:15	04/14/22 00:35	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/13/22 11:15	04/14/22 00:35	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 11:15	04/14/22 00:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130			04/13/22 11:15	04/14/22 00:35	1
o-Terphenyl	106		70 - 130			04/13/22 11:15	04/14/22 00:35	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: SW03

Lab Sample ID: 890-2184-9

Date Collected: 04/11/22 10:30

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 7

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.1		5.00	mg/Kg			04/16/22 19:13	1

Client Sample ID: SW04

Lab Sample ID: 890-2184-10

Date Collected: 04/11/22 10:35

Matrix: Solid

Date Received: 04/11/22 16:04

Sample Depth: 0 - 7

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
Toluene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
Ethylbenzene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
m-Xylene & p-Xylene	<0.00403	U **	0.00403	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
o-Xylene	<0.00202	U **	0.00202	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
Xylenes, Total	<0.00403	U **	0.00403	mg/Kg		04/14/22 14:57	04/16/22 07:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/14/22 14:57	04/16/22 07:29	1
1,4-Difluorobenzene (Surr)	102		70 - 130			04/14/22 14:57	04/16/22 07:29	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			04/18/22 15:15	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			04/14/22 13:25	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	<49.9	U	49.9	mg/Kg		04/13/22 11:15	04/14/22 01:16	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		04/13/22 11:15	04/14/22 01:16	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/13/22 11:15	04/14/22 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	89		70 - 130			04/13/22 11:15	04/14/22 01:16	1
o-Terphenyl	104		70 - 130			04/13/22 11:15	04/14/22 01:16	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	67.7		5.03	mg/Kg			04/16/22 19:22	1

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-2183-A-1-F MS	Matrix Spike	99	104
890-2183-A-1-G MSD	Matrix Spike Duplicate	100	104
890-2184-1	FS15	101	100
890-2184-2	FS16	98	98
890-2184-3	FS17	99	99
890-2184-4	FS18	101	100
890-2184-5	FS19	105	101
890-2184-6	FS20	100	99
890-2184-7	SW01	101	99
890-2184-8	SW02	101	99
890-2184-9	SW03	104	101
890-2184-10	SW04	105	102
LCS 880-23548/1-A	Lab Control Sample	96	103
LCSD 880-23548/2-A	Lab Control Sample Dup	98	104
MB 880-23548/5-A	Method Blank	100	96
MB 880-23549/5-A	Method Blank	95	92
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)
880-13634-A-1-B MS	Matrix Spike	80	88
880-13634-A-1-C MSD	Matrix Spike Duplicate	81	88
890-2183-A-1-C MS	Matrix Spike	83	75
890-2183-A-1-D MSD	Matrix Spike Duplicate	97	86
890-2184-1	FS15	102	106
890-2184-2	FS16	113	116
890-2184-3	FS17	113	115
890-2184-4	FS18	119	123
890-2184-5	FS19	110	114
890-2184-6	FS20	111	114
890-2184-7	SW01	113	116
890-2184-8	SW02	97	102
890-2184-9	SW03	90	106
890-2184-10	SW04	89	104
LCS 880-23434/2-A	Lab Control Sample	98	89
LCSD 880-23434/3-A	Lab Control Sample Dup	125	111
MB 880-23434/1-A	Method Blank	101	107
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

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Surrogate Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO2 (70-130)	OTPH2 (70-130)
LCS 880-23451/2-A	Lab Control Sample	110	134 S1+
LCSD 880-23451/3-A	Lab Control Sample Dup	104	126
MB 880-23451/1-A	Method Blank	91	111
Surrogate Legend			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-23548/5-A

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23548

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/14/22 14:57	04/15/22 23:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/14/22 14:57	04/15/22 23:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/14/22 14:57	04/15/22 23:37	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/14/22 14:57	04/15/22 23:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/14/22 14:57	04/15/22 23:37	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/14/22 14:57	04/15/22 23:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	04/14/22 14:57	04/15/22 23:37	1
1,4-Difluorobenzene (Surr)	96		70 - 130	04/14/22 14:57	04/15/22 23:37	1

Lab Sample ID: LCS 880-23548/1-A

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	0.100	0.1414	*+	mg/Kg		141	70 - 130
Toluene	0.100	0.1278		mg/Kg		128	70 - 130
Ethylbenzene	0.100	0.1105		mg/Kg		111	70 - 130
m-Xylene & p-Xylene	0.200	0.2272		mg/Kg		114	70 - 130
o-Xylene	0.100	0.1110		mg/Kg		111	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	96		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-23548/2-A

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	0.100	0.1390	*+	mg/Kg		139	70 - 130	2	35
Toluene	0.100	0.1249		mg/Kg		125	70 - 130	2	35
Ethylbenzene	0.100	0.1093		mg/Kg		109	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2255		mg/Kg		113	70 - 130	1	35
o-Xylene	0.100	0.1083		mg/Kg		108	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-2183-A-1-F MS

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	<0.00199	U *+	0.100	0.1175		mg/Kg		117	70 - 130
Toluene	<0.00199	U *+	0.100	0.1062		mg/Kg		105	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Lab Sample ID: 890-2183-A-1-F MS

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23548

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Ethylbenzene	<0.00199	U *	0.100	0.09053		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	<0.00398	U *	0.200	0.1878		mg/Kg		93	70 - 130
o-Xylene	<0.00199	U *	0.100	0.09290		mg/Kg		91	70 - 130

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

Lab Sample ID: 890-2183-A-1-G MSD

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23548

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Benzene	<0.00199	U *	0.101	0.1289		mg/Kg		128	70 - 130	9	35
Toluene	<0.00199	U *	0.101	0.1164		mg/Kg		114	70 - 130	9	35
Ethylbenzene	<0.00199	U *	0.101	0.1004		mg/Kg		98	70 - 130	10	35
m-Xylene & p-Xylene	<0.00398	U *	0.202	0.2071		mg/Kg		101	70 - 130	10	35
o-Xylene	<0.00199	U *	0.101	0.1011		mg/Kg		99	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: MB 880-23549/5-A

Matrix: Solid

Analysis Batch: 23567

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23549

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/14/22 15:07	04/15/22 12:22	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/14/22 15:07	04/15/22 12:22	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/14/22 15:07	04/15/22 12:22	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/14/22 15:07	04/15/22 12:22	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/14/22 15:07	04/15/22 12:22	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/14/22 15:07	04/15/22 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		70 - 130	04/14/22 15:07	04/15/22 12:22	1
1,4-Difluorobenzene (Surr)	92		70 - 130	04/14/22 15:07	04/15/22 12:22	1

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

Lab Sample ID: MB 880-23434/1-A

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23434

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		04/13/22 09:18	04/13/22 10:24	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Lab Sample ID: MB 880-23434/1-A

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23434

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		04/13/22 09:18	04/13/22 10:24	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 09:18	04/13/22 10:24	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			04/13/22 09:18	04/13/22 10:24	1
o-Terphenyl	107		70 - 130			04/13/22 09:18	04/13/22 10:24	1

Lab Sample ID: LCS 880-23434/2-A

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23434

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	1000	838.6		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	887.9		mg/Kg		89	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	98		70 - 130				
o-Terphenyl	89		70 - 130				

Lab Sample ID: LCSD 880-23434/3-A

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23434

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1052	*1	mg/Kg		105	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	1000	1099	*1	mg/Kg		110	70 - 130	21	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	125		70 - 130						
o-Terphenyl	111		70 - 130						

Lab Sample ID: 890-2183-A-1-C MS

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23434

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 *1	1000	804.3		mg/Kg		80	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	775.2		mg/Kg		76	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	83		70 - 130						
o-Terphenyl	75		70 - 130						

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Lab Sample ID: 890-2183-A-1-D MSD

Matrix: Solid

Analysis Batch: 23435

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23434

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 *1	998	885.8		mg/Kg		89	70 - 130	10	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	998	897.0		mg/Kg		88	70 - 130	15	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	97		70 - 130								
o-Terphenyl	86		70 - 130								

Lab Sample ID: MB 880-23451/1-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 23451

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		04/13/22 11:15	04/13/22 19:46	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		04/13/22 11:15	04/13/22 19:46	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/13/22 11:15	04/13/22 19:46	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			04/13/22 11:15	04/13/22 19:46	1
o-Terphenyl	111		70 - 130			04/13/22 11:15	04/13/22 19:46	1

Lab Sample ID: LCS 880-23451/2-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 23451

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	957.4		mg/Kg		96	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	1094		mg/Kg		109	70 - 130		
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1-Chlorooctane	110		70 - 130						
o-Terphenyl	134	S1+	70 - 130						

Lab Sample ID: LCSD 880-23451/3-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23451

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1046		mg/Kg		105	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	1000	933.8		mg/Kg		93	70 - 130	16	20

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Lab Sample ID: LCSD 880-23451/3-A

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 23451

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	126		70 - 130

Lab Sample ID: 880-13634-A-1-B MS

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 23451

	Sample	Sample	Spike	MS	MS				%Rec	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	1000	822.4		mg/Kg		82	70 - 130	
Diesel Range Organics (Over C10-C28)	71.4		1000	789.7		mg/Kg		72	70 - 130	
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	80		70 - 130							
o-Terphenyl	88		70 - 130							

Lab Sample ID: 880-13634-A-1-C MSD

Matrix: Solid

Analysis Batch: 23429

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 23451

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	998	837.2		mg/Kg		84	70 - 130	2	20	
Diesel Range Organics (Over C10-C28)	71.4		998	800.5		mg/Kg		73	70 - 130	1	20	
Surrogate	%Recovery	Qualifier	Limits									
1-Chlorooctane	81		70 - 130									
o-Terphenyl	88		70 - 130									

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-23533/1-A

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac		
Chloride	<5.00	U	5.00	mg/Kg			04/16/22 14:46	1		

Lab Sample ID: LCS 880-23533/2-A

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Lab Control Sample

Prep Type: Soluble

	Spike	LCS	LCS					%Rec	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	250	244.5		mg/Kg		98	90 - 110		

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QC Sample Results

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 880-23533/3-A

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride			250	242.4		mg/Kg		97	90 - 110	1	20

Lab Sample ID: 890-2184-1 MS

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: FS15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Chloride	66.5		252	313.2		mg/Kg		98	90 - 110		

Lab Sample ID: 890-2184-1 MSD

Matrix: Solid

Analysis Batch: 23692

Client Sample ID: FS15

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	66.5		252	313.0		mg/Kg		98	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

GC VOA

Prep Batch: 23548

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	5035	
890-2184-2	FS16	Total/NA	Solid	5035	
890-2184-3	FS17	Total/NA	Solid	5035	
890-2184-4	FS18	Total/NA	Solid	5035	
890-2184-5	FS19	Total/NA	Solid	5035	
890-2184-6	FS20	Total/NA	Solid	5035	
890-2184-7	SW01	Total/NA	Solid	5035	
890-2184-8	SW02	Total/NA	Solid	5035	
890-2184-9	SW03	Total/NA	Solid	5035	
890-2184-10	SW04	Total/NA	Solid	5035	
MB 880-23548/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-23548/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-23548/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2183-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
890-2183-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 23549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-23549/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 23567

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	8021B	23548
890-2184-2	FS16	Total/NA	Solid	8021B	23548
890-2184-3	FS17	Total/NA	Solid	8021B	23548
890-2184-4	FS18	Total/NA	Solid	8021B	23548
890-2184-5	FS19	Total/NA	Solid	8021B	23548
890-2184-6	FS20	Total/NA	Solid	8021B	23548
890-2184-7	SW01	Total/NA	Solid	8021B	23548
890-2184-8	SW02	Total/NA	Solid	8021B	23548
890-2184-9	SW03	Total/NA	Solid	8021B	23548
890-2184-10	SW04	Total/NA	Solid	8021B	23548
MB 880-23548/5-A	Method Blank	Total/NA	Solid	8021B	23548
MB 880-23549/5-A	Method Blank	Total/NA	Solid	8021B	23549
LCS 880-23548/1-A	Lab Control Sample	Total/NA	Solid	8021B	23548
LCSD 880-23548/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	23548
890-2183-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	23548
890-2183-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	23548

Analysis Batch: 23748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	Total BTEX	
890-2184-2	FS16	Total/NA	Solid	Total BTEX	
890-2184-3	FS17	Total/NA	Solid	Total BTEX	
890-2184-4	FS18	Total/NA	Solid	Total BTEX	
890-2184-5	FS19	Total/NA	Solid	Total BTEX	
890-2184-6	FS20	Total/NA	Solid	Total BTEX	
890-2184-7	SW01	Total/NA	Solid	Total BTEX	
890-2184-8	SW02	Total/NA	Solid	Total BTEX	
890-2184-9	SW03	Total/NA	Solid	Total BTEX	
890-2184-10	SW04	Total/NA	Solid	Total BTEX	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

GC Semi VOA

Analysis Batch: 23429

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-9	SW03	Total/NA	Solid	8015B NM	23451
890-2184-10	SW04	Total/NA	Solid	8015B NM	23451
MB 880-23451/1-A	Method Blank	Total/NA	Solid	8015B NM	23451
LCS 880-23451/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23451
LCSD 880-23451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23451
880-13634-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	23451
880-13634-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23451

Prep Batch: 23434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	8015NM Prep	
890-2184-2	FS16	Total/NA	Solid	8015NM Prep	
890-2184-3	FS17	Total/NA	Solid	8015NM Prep	
890-2184-4	FS18	Total/NA	Solid	8015NM Prep	
890-2184-5	FS19	Total/NA	Solid	8015NM Prep	
890-2184-6	FS20	Total/NA	Solid	8015NM Prep	
890-2184-7	SW01	Total/NA	Solid	8015NM Prep	
890-2184-8	SW02	Total/NA	Solid	8015NM Prep	
MB 880-23434/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23434/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2183-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2183-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 23435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	8015B NM	23434
890-2184-2	FS16	Total/NA	Solid	8015B NM	23434
890-2184-3	FS17	Total/NA	Solid	8015B NM	23434
890-2184-4	FS18	Total/NA	Solid	8015B NM	23434
890-2184-5	FS19	Total/NA	Solid	8015B NM	23434
890-2184-6	FS20	Total/NA	Solid	8015B NM	23434
890-2184-7	SW01	Total/NA	Solid	8015B NM	23434
890-2184-8	SW02	Total/NA	Solid	8015B NM	23434
MB 880-23434/1-A	Method Blank	Total/NA	Solid	8015B NM	23434
LCS 880-23434/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	23434
LCSD 880-23434/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	23434
890-2183-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	23434
890-2183-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	23434

Prep Batch: 23451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-9	SW03	Total/NA	Solid	8015NM Prep	
890-2184-10	SW04	Total/NA	Solid	8015NM Prep	
MB 880-23451/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-23451/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-23451/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-13634-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-13634-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

GC Semi VOA

Analysis Batch: 23528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Total/NA	Solid	8015 NM	
890-2184-2	FS16	Total/NA	Solid	8015 NM	
890-2184-3	FS17	Total/NA	Solid	8015 NM	
890-2184-4	FS18	Total/NA	Solid	8015 NM	
890-2184-5	FS19	Total/NA	Solid	8015 NM	
890-2184-6	FS20	Total/NA	Solid	8015 NM	
890-2184-7	SW01	Total/NA	Solid	8015 NM	
890-2184-8	SW02	Total/NA	Solid	8015 NM	
890-2184-9	SW03	Total/NA	Solid	8015 NM	
890-2184-10	SW04	Total/NA	Solid	8015 NM	

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Leach Batch: 23533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Soluble	Solid	DI Leach	
890-2184-2	FS16	Soluble	Solid	DI Leach	
890-2184-3	FS17	Soluble	Solid	DI Leach	
890-2184-4	FS18	Soluble	Solid	DI Leach	
890-2184-5	FS19	Soluble	Solid	DI Leach	
890-2184-6	FS20	Soluble	Solid	DI Leach	
890-2184-7	SW01	Soluble	Solid	DI Leach	
890-2184-8	SW02	Soluble	Solid	DI Leach	
890-2184-9	SW03	Soluble	Solid	DI Leach	
890-2184-10	SW04	Soluble	Solid	DI Leach	
MB 880-23533/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-23533/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-23533/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2184-1 MS	FS15	Soluble	Solid	DI Leach	
890-2184-1 MSD	FS15	Soluble	Solid	DI Leach	

Analysis Batch: 23692

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-2184-1	FS15	Soluble	Solid	300.0	23533
890-2184-2	FS16	Soluble	Solid	300.0	23533
890-2184-3	FS17	Soluble	Solid	300.0	23533
890-2184-4	FS18	Soluble	Solid	300.0	23533
890-2184-5	FS19	Soluble	Solid	300.0	23533
890-2184-6	FS20	Soluble	Solid	300.0	23533
890-2184-7	SW01	Soluble	Solid	300.0	23533
890-2184-8	SW02	Soluble	Solid	300.0	23533
890-2184-9	SW03	Soluble	Solid	300.0	23533
890-2184-10	SW04	Soluble	Solid	300.0	23533
MB 880-23533/1-A	Method Blank	Soluble	Solid	300.0	23533
LCS 880-23533/2-A	Lab Control Sample	Soluble	Solid	300.0	23533
LCSD 880-23533/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	23533
890-2184-1 MS	FS15	Soluble	Solid	300.0	23533
890-2184-1 MSD	FS15	Soluble	Solid	300.0	23533

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Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS15

Lab Sample ID: 890-2184-1

Date Collected: 04/11/22 11:40

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 04:24	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 16:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 17:22	CH	XEN MID

Client Sample ID: FS16

Lab Sample ID: 890-2184-2

Date Collected: 04/11/22 13:05

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 04:45	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 16:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 17:50	CH	XEN MID

Client Sample ID: FS17

Lab Sample ID: 890-2184-3

Date Collected: 04/11/22 13:10

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 05:05	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 17:59	CH	XEN MID

Client Sample ID: FS18

Lab Sample ID: 890-2184-4

Date Collected: 04/11/22 13:15

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 05:26	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: FS18

Lab Sample ID: 890-2184-4

Date Collected: 04/11/22 13:15

Matrix: Solid

Date Received: 04/11/22 16:04

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			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 18:27	CH	XEN MID

Client Sample ID: FS19

Lab Sample ID: 890-2184-5

Date Collected: 04/11/22 13:20

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 05:46	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1	0 mL	1.0 mL	23692	04/16/22 18:36	CH	XEN MID

Client Sample ID: FS20

Lab Sample ID: 890-2184-6

Date Collected: 04/11/22 12:05

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 06:07	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 18:44	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 18:45	CH	XEN MID

Client Sample ID: SW01

Lab Sample ID: 890-2184-7

Date Collected: 04/11/22 10:20

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 06:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 19:05	AJ	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Client Sample ID: SW01

Lab Sample ID: 890-2184-7

Date Collected: 04/11/22 10:20

Matrix: Solid

Date Received: 04/11/22 16:04

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 18:54	CH	XEN MID

Client Sample ID: SW02

Lab Sample ID: 890-2184-8

Date Collected: 04/11/22 10:25

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 06:48	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	23434	04/13/22 09:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23435	04/13/22 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 19:04	CH	XEN MID

Client Sample ID: SW03

Lab Sample ID: 890-2184-9

Date Collected: 04/11/22 10:30

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 07:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	23451	04/13/22 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/14/22 00:35	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 19:13	CH	XEN MID

Client Sample ID: SW04

Lab Sample ID: 890-2184-10

Date Collected: 04/11/22 10:35

Matrix: Solid

Date Received: 04/11/22 16:04

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	23548	04/14/22 14:57	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	23567	04/16/22 07:29	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			23748	04/18/22 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			23528	04/14/22 13:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	23451	04/13/22 11:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			23429	04/14/22 01:16	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	23533	04/14/22 13:53	SC	XEN MID
Soluble	Analysis	300.0		1			23692	04/16/22 19:22	CH	XEN MID

Eurofins Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Laboratory: Eurofins Midland

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

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

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

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

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

Method Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

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

Protocol References:

ASTM = ASTM International

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

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.
Project/Site: Road Runner Delivery

Job ID: 890-2184-1
SDG: 31403665.011 task 02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-2184-1	FS15	Solid	04/11/22 11:40	04/11/22 16:04	6
890-2184-2	FS16	Solid	04/11/22 13:05	04/11/22 16:04	7
890-2184-3	FS17	Solid	04/11/22 13:10	04/11/22 16:04	7
890-2184-4	FS18	Solid	04/11/22 13:15	04/11/22 16:04	7
890-2184-5	FS19	Solid	04/11/22 13:20	04/11/22 16:04	7
890-2184-6	FS20	Solid	04/11/22 12:05	04/11/22 16:04	6
890-2184-7	SW01	Solid	04/11/22 10:20	04/11/22 16:04	0 - 4
890-2184-8	SW02	Solid	04/11/22 10:25	04/11/22 16:04	0 - 4
890-2184-9	SW03	Solid	04/11/22 10:30	04/11/22 16:04	0 - 7
890-2184-10	SW04	Solid	04/11/22 10:35	04/11/22 16:04	0 - 7



Chain of Custody

Work Order No: _____

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

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Project Manager:	Travis Casey	Bill to: (if different)	Lucid Energy Group
Company Name:	WSP USA	Company Name:	Michael Gant
Address:	508 W Stevens St	Address:	201 S 4th
City, State ZIP:	Carlsbad, NM, 88220	City, State ZIP:	Artesia, NM 88210
Phone:	575-689-5949	Email:	mgant@lucid-energy.com, Travis.Casey@wsp.com

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

Project Name:	Road Runner Delivery	Turn Around	
Project Number:	31403665.011 Task 02	Routine <input checked="" type="checkbox"/>	
P.O. Number:		Rush:	
Sampler's Name:	Mercy Rotich.	Due Date:	

SAMPLE RECEIPT	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	5.5/5.3	Thermometer ID	1NM007	
Received Inact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Total Containers:		
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			



890-2184 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0-8021)	Chloride (EPA 300.0)	ANALYSIS REQUEST	Work Order Notes
FS15	S	04/11/22	11:40	6'	1	X	X	X		
FS16	S	04/11/22	13:05	7'	1	X	X	X		
FS17	S	04/11/22	13:10	7'	1	X	X	X		
FS18	S	04/11/22	13:15	7'	1	X	X	X		
FS19	S	04/11/22	13:20	7'	1	X	X	X		
FS20	S	04/11/22	12:05	6'	1	X	X	X		
SW01	S	04/11/22	10:20	0-4'	1	X	X	X		
SW02	S	04/11/22	10:25	0-4'	1	X	X	X		
SW03	S	04/11/22	10:30	0-7'	1	X	X	X		
SW04	S	04/11/22	10:35	0-7'	1	X	X	X		

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

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		4-11-22 10:04			

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2184-1

SDG Number: 31403665.011 task 02

Login Number: 2184

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2184-1

SDG Number: 31403665.011 task 02

Login Number: 2184

List Number: 2

Creator: Carlisle, Spring

List Source: Eurofins Midland

List Creation: 04/12/22 06:11 PM

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	

ATTACHMENT 5: C141 CLOSURE REQUEST FORM

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Michael Gant Title: Environmental Compliance Manager

Signature: *MGant* Date: 5/26/2022

email: MGant@lucid-energy.com Telephone: 3143307876

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: 06/16/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

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

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

CONDITIONS

Action 111086

CONDITIONS

Operator: LUCID ENERGY DELAWARE, LLC 201 S. Fourth Street Artesia, NM 88210	OGRID: 372422
	Action Number: 111086
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Please note the release occurred 06/19/18. OCD requires a release to be addressed within 90 days after the release.	6/16/2022