

September 1, 2022

District 1 New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

Re: Revised Remediation Work Plan

Red Bull 35 Federal 001

Incident Number NAPP2126444907

Lea County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of ConocoPhillips Company (COP), has prepared this Revised Remediation Work Plan (Work Plan) to document site assessment and soil sampling activities completed to date and propose remedial actions to address the residual impacted soil identified at the Red Bull 35 Federal 001 (Site), following a crude oil flare fire. The following Work Plan proposes lateral and vertical delineation of the release and excavation of impacted soil.

This Work Plan is an update to the original Remediation Work Plan submitted on August 2, 2022. This update addresses the August 2, 2022, email from the New Mexico Oil Conservation Division (NMOCD) stating the depth to groundwater has not been adequately determined. NMOCD responded that nearby wells used to determine depth to groundwater should be no further than ½ miles away from the Site and data should be no more than 25 years old. The alternative remedial option is to remediate to the most stringent levels to Table 1 Closure Criteria. A copy of the email correspondence is provided as an attachment to this report.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit K, Section 35, Township 25 South, Range 33 East, in Lea County, New Mexico (32.08518° N, 103.5452° W) and is associated with oil and gas exploration and production operations on private land.

On September 3, 2021, a flare released a approximately 0.01 barrels (bbls) crude oil, which ignited and extinguished itself after reaching the ground. COP immediately reported the release to the NMOCD on September 3, 2021 and submitted a Release Notification Form C-141 (Form C-141) on September 21, 2021. The release was assigned Incident Number NAPP2126444907.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants
601 North Marienfeld Street | Midland, TX 79701 | ensolum.com
Texas PG Firm No. 50588 | Texas PE Firm No. F-21843



Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02313, located just over ½-mile northwest of the Site. The groundwater well has a reported depth to groundwater of 110 feet bgs and a total depth of 150 feet bgs. Ground surface elevation at the groundwater well location is 3,323 feet above mean sea level (amsl), which is approximately 2 feet lower in elevation than the Site. Regionally, depth to grounfwater data from 10 wells indicates depth to groundwater ranges from 110 feet (C-02313) to 220 feet bgs (C-02285-POD-1). Depth to water beneath the Site, based on regional data and the closest water well data, has been reasonably esimtated to be greater than 100 feet bgs. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an emergent wetland, located approximately 3,404 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

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

TPH: 2,500 mg/kg

Chloride: 20,000 mg/kg

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 27, 2021 and October 20, 2021, WSP, Inc (WSP), the former consultant completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent at a depth of 0.5 feet bgs. Preliminary soil samples SS01 through SS04 were collected within the release extent on pad and preliminary soil samples SS05 through SS09 were collected around the release extent to confirm the lateral exent of the relase, also on pad. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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



Laboratory analytical results for preliminary soil samples SS01 through SS04 indicated TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS05 through SS09 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the most stringent Table 1 Closure Citeria and successfully define the lateral extent of the release. Based on visible staining in the release area, elevated field screening results, and laboratory analytical results for the preliminary soil samples, delineation activities appeared warranted.

On December 6, 2021 and March 10, 2022, delineation activities were conducted at the Site to assess the vertical extent of impacted soil. Potholes PH01 through PH06 were advanced via track mounted backhoe within and around the release extent on pad. The delineation potholes were advanced to depths ranging from 4 feet bgs to 7 feet bgs. Discrete delineation soil samples were collected from each pothole at depths ranging from 1-foot to 7 feet bgs. Soil from the potholes was field screened for VOCs and chloride. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil samples were handled and analyzed as described above. The delineation soil sample locations are depicted on Figure 3.

Laboratory analytical results for the delineation soil samples collected from pothole PH01 and PH03 indicated TPH concentrations exceeded the Site Closure Criteria at depths ranging from 1-foot to 2 feet bgs. Laboratory analytical results for the delineation soil samples collected from potholes PH02, and PH04 through PH06 at depths ranging from 1-foot to 4 feet bgs, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. In addition, delineation activities have vertically delineated the release to the most stringent Table 1 Closure Criteria. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIAL ACTIONS

The results from the delineation soil sampling suggest soil containing elevated TPH concentrations is present in the vicinity of potholes PH01 and PH03 and surficial soil samples SS01 through SS04 and extends from the ground surface to approximately 2 feet bgs.

COP requests approval to complete the following remediation activities:

- In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and confirm the applied Closure Criteria, Ensolum and COP propose to complete a depth to water boring within 0.5 miles of the release. The soil boring will be advanced to a depth of approximately 110 feet bgs or until groundwater is encountered. An Ensolum geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for at least 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period depth to groundwater will be measured or the Ensolum geologist will confirm the boring is dry. The borehole will be properly abandoned following NMOSE procedures. Ensolum and COG will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent closure request.
- Following confirmation that depth to water is greater than 100 feet bgs, impacted soil in the
 vicinity of potholes PH01 and PH03 as well as surficial soil samples SS01 through SS04 will be
 excavated to meet the defined Closure Criteria described in this Work Plan. The excavation is
 anticipated to be completed to a depth of approximately 3 feet bgs.
- Upon completion of excavation activities, 5-point composite confirmation samples will be collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5point composite samples will be collected by placing five equivalent aliquots of soil into a 1-



gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride.

- An estimated 35 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

COP will complete the excavation activities within 90 days of the date of approval of this Work Plan by the NMOCD. The depth to water boring will be completed as soon as possible following approval from the surface landowner and scheduling with a driller. A final report requesting closure will be submitted within three weeks of receipt of final laboratory analytical results. COP believes this Work Plan is protective of human health, the environment, and groundwater and respectfully request approval for Incident Number NAPP2126444907. The Final C-141 is included in Appendix F.

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

Sincerely, Ensolum, LLC

Kalei Jennings Senior Scientist Daniel R. Moir, P.G. Senior Managing Geologist

cc: Charles Beauvais, ConocoPhillips Company

Appendices:

Figure 1 Site Location Map

alui Jennings

Figure 2 Preliminary Soil Sample Locations
Figure 3 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Referenced Well Records

Appendix B Photographic Log

Appendix C Lithologic / Soil Sampling Log

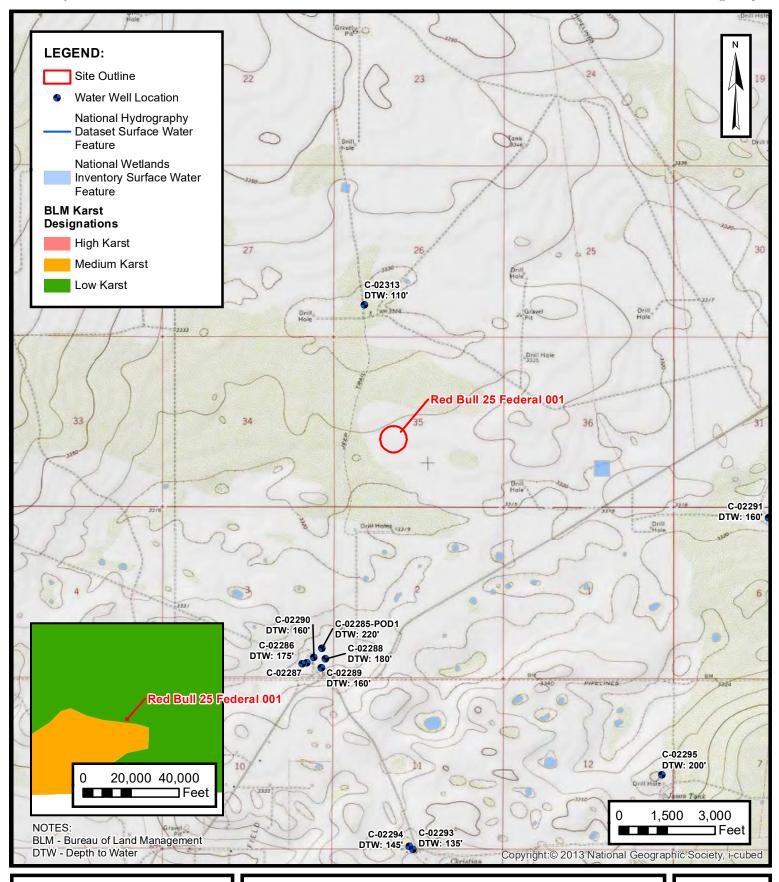
Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Sample Notification

Appendix F Final C-141



FIGURES





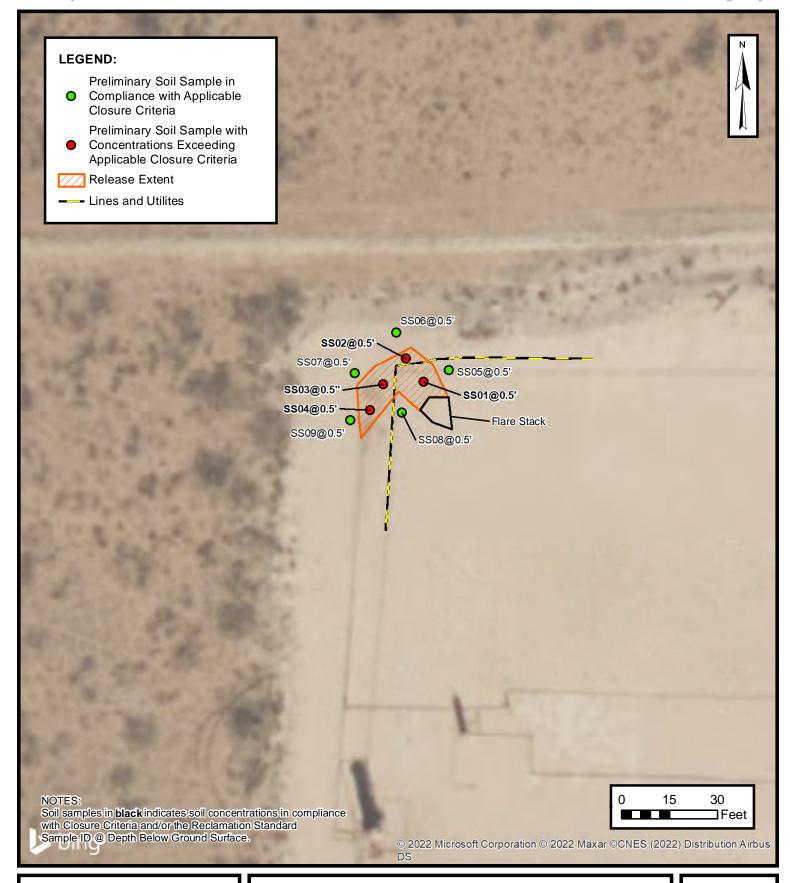
SITE RECEPTOR MAP

CONOCOPHILLIPS COMPANY RED BULL 25 FEDERAL 001 NAPP2126444907 Unit K, Sec 35 T25S R33E

Lea County, New Mexico

FIGURE

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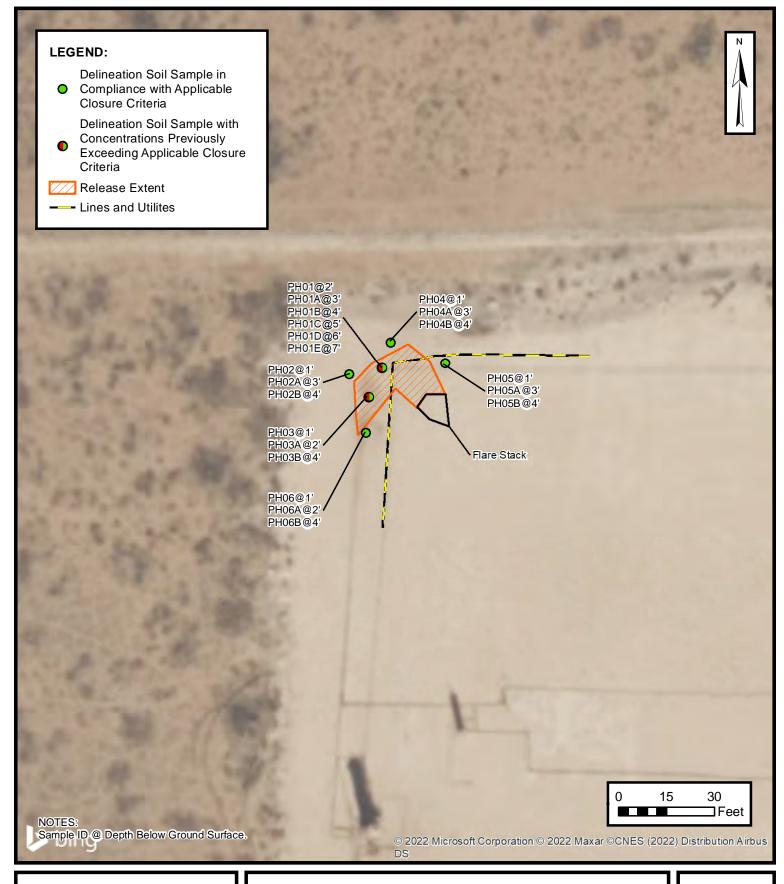




PRELIMINARY SOIL SAMPLE LOCATIONS

CONOCOPHILLIPS COMPANY RED BULL 25 FEDERAL 001 NAPP2126444907 Unit K, Sec 35 T25S R33E Lea County, New Mexico **FIGURE**

2





DELINEATION SOIL SAMPLE LOCATIONS

CONOCOPHILLIPS COMPANY RED BULL 25 FEDERAL 001 NAPP2126444907 Unit K, Sec 35 T25S R33E Lea County, New Mexico **FIGURE**

3



TABLES



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Red Bull 35 Federal 001

ConocoPhillips Company
Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Preliminar	ry Assessment S	oil Samples				
SS01	09/27/2021	0.5	<0.00199	<0.00200	<49.8	4,650	1,160	4,650	5,810	337
SS02	09/27/2021	0.5	<0.00198	<0.00200	<250	18,000	3,130	18,000	21,100	388
SS03	09/27/2021	0.5	<0.00200	<0.00200	251	19,800	3,060	20,051	23,100	198
SS04	09/27/2021	0.5	<0.00198	<0.00200	<250	17,200	3,890	17,200	21,100	247
SS05	09/27/2021	0.5	<.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	19.4
SS06	09/27/2021	0.5	<.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	18.7
SS07	10/20/2021	0.5	<.00200	0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.4
SS08	09/27/2021	0.5	<.00199	<.00199	<49.9	<49.9	<49.9	<49.9	<49.9	154
SS09	10/20/2021	0.5	<.00201	<.001402	<49.9	<49.9	<49.9	<49.9	<49.9	28.3
				Del	ineation Soil San	nples				
PH01	12/06/2021	2	0.328	0.982	2,380	1,050	<49.9	3,430	3,430	7,550
PH01A	12/06/2021	3	0.0102	0.221	<49.8	<49.8	<49.8	<49.8	<49.8	1,270
PH01B	12/06/2021	4	0.00584	0.0832	<49.9	<49.9	<49.9	<49.9	<49.9	888
PH01C	12/06/2021	5	0.00923	0.102	<49.9	131	<49.9	131	131	2,430
PH01D	12/06/2021	6	0.00332	0.0532	<50.0	<50.0	<50.0	<50.0	<50.0	912
PH01E	12/06/2021	7	0.00547	0.0666	<49.9	<49.9	<49.9	<49.9	<49.9	1,050
PH02	03/10/2022	1	<0.00200	<0.00399	<49.8	147	<49.8	147	147	769
PH02A	03/10/2022	3	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	384
PH02B	03/10/2022	4	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	80.3
PH03	03/10/2022	1	<0.00200	<0.00400	<50.0	4,280	785	4,280	5,070	751
PH03A	03/10/2022	2	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	380
PH03B	03/10/2022	4	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	112
PH04	03/10/2022	1	<0.00201	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	234
PH04A	03/10/2022	3	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	808
PH04B	03/10/2022	4	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	368



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS

Red Bull 35 Federal 001 ConocoPhillips Company Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
PH05	03/10/2022	1	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	68.5
PH05A	03/10/2022	3	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	206
PH05B	03/10/2022	4	<0.00198	<0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	29.1
PH06	03/10/2022	1	<0.00200	<0.00399	<49.9	84.3	<49.9	84.3	84.3	2,410
PH06A	03/10/2022	2	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	15,500
PH06B	03/10/2022	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	157

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene Toluene Ethylbenzene and Xylenes

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Grey text represents samples that have been excavated

^{*} indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg



APPENDIX A

Referenced Well Records

Received by OCD: 9/1/2022 2:56:30 PM ew Mexico Office of the State Engineer

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Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

C 02313

Q64 Q16 Q4 Sec Tws Rng

3 26 25S 33E

X

Y 636971 3552098*

Driller License:

Driller Company:

Driller Name:

UNKNOWN 01/01/1925

6.88

Drill Start Date:

Drill Finish Date:

Depth Well:

06/30/1925

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type: Casing Size: Pipe Discharge Size:

150 feet

Estimated Yield: 60 GPM Depth Water:

110 feet

*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

7/25/22 1:55 PM

POINT OF DIVERSION SUMMARY



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

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

Click to hideNews Bulletins

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

USGS 320407103331001 26S.33E.03.444110

Available data for this site SUMMARY OF ALL AVAILABLE DATA V GO

Well Site

DESCRIPTION:

Latitude 32°04'07", Longitude 103°33'10" NAD27 Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 180 feet

Land surface altitude: 3,311 feet above NAVD88.

Well completed in "Other aguifers" (N9999OTHER) national aguifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits"

(110AVMB) local aquifer

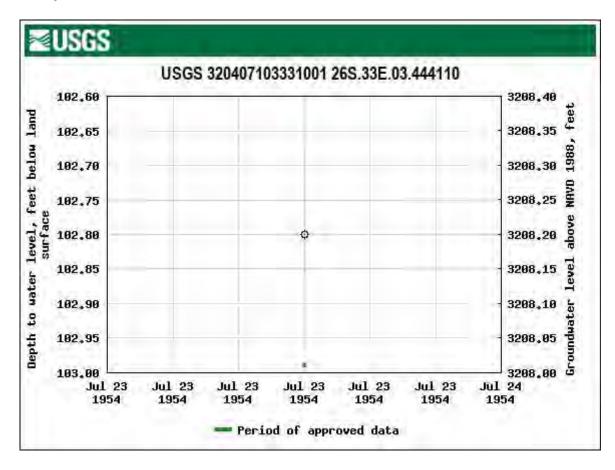
AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1954-07-23	1954-07-23	1
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms





New Mexico Office of the State Engineer

Water Right Summary



WR File Number:

C 02285

Subbasin: CUB

Cross Reference: -

Primary Purpose:

PLS

NON 72-12-1 LIVESTOCK WATERING

Primary Status:

DECLARATION

Total Acres:

Subfile:

Header: -

Total Diversion:

Cause/Case: -

Owner:

DINWIDDIE CATTLE CO.

Documents on File

Status File/Act

Transaction Desc.

From/ To

Diversion Consumptive

464416 DCL 1993-02-02

DCL PRC C 02285

Τ

3

Current Points of Diversion

Trn#

(NAD83 UTM in meters)

Well Tag Source 64Q16Q4Sec Tws Rng

Q

Other Location Desc

POD Number C 02285 POD1

Shallow 1 4 4 03 26S 33E

636613

3548855

Priority Summary

Priority 12/31/1982 Status DCL

Acres Diversion Pod Number

3 C 02285 POD1

Shallow

Place of Use

256 64 Q16 Q4Sec Tws Rng

Acres Diversion 0

3

CU Use Priority

Status Other Location Desc PLS 12/31/1982 DCL NO PLACE OF USE GIVEN.

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.

7/28/22 9:31 PM

WATER RIGHT **SUMMARY**

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

C 02285 POD1

03 26S 33E

636613

3548855

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

12/31/1982

Plug Date:

Shallow

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 18 GPM

Casing Size:

8.00

Depth Well:

220 feet

Depth Water:

220 feet

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.

7/28/22 9:32 PM

POINT OF DIVERSION SUMMARY

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APPENDIX B

Photographic Log

ENSOLUM

Photographic Log

ConocoPhillips Company Red Bull 35 Federal 001 Incident Number NAPP2126444907



Description: Photo of release extent taken during initial

Photograph 1

Date: 09/27/2021

Photograph 2

Date: 12/06/2021

Description: Photo of PH01 taken during delineation activities.



Photograph 3

activities.

Description: Photo of PH02 taken during delineation



Photograph 4

Date: 03/10/2022

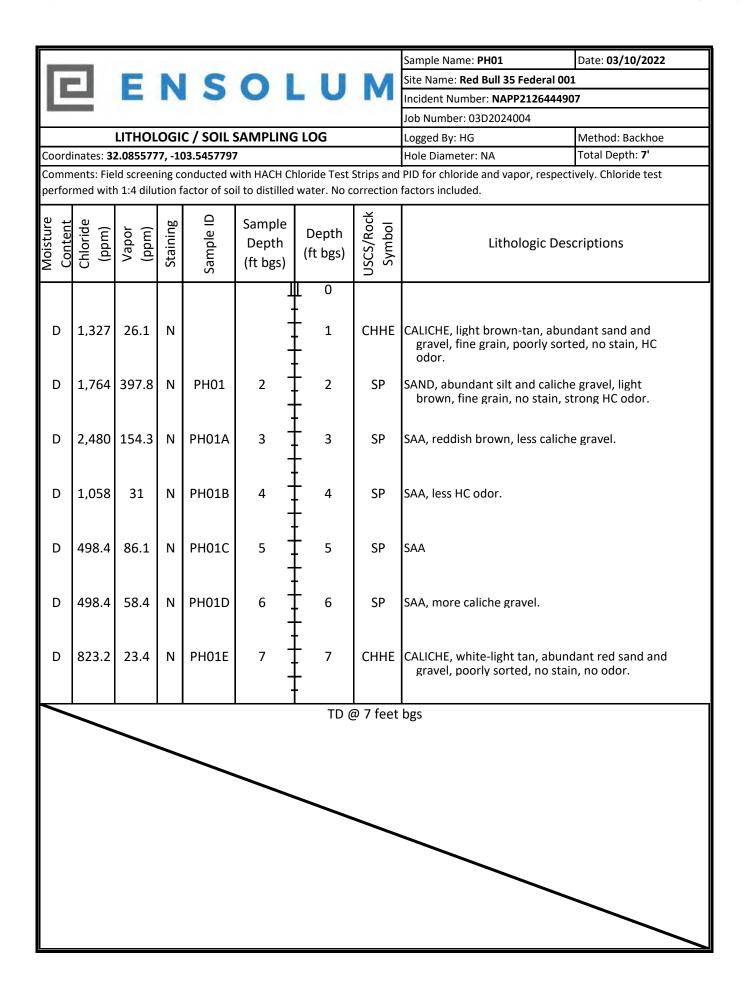
Description: Photo of PH03 taken during delineation

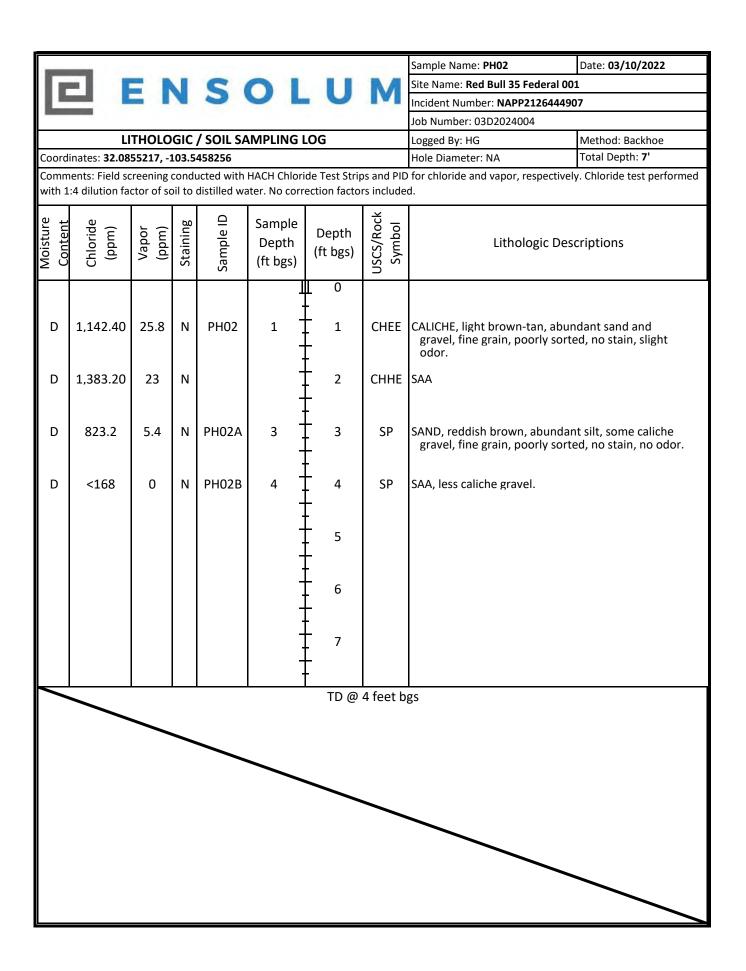
activities.

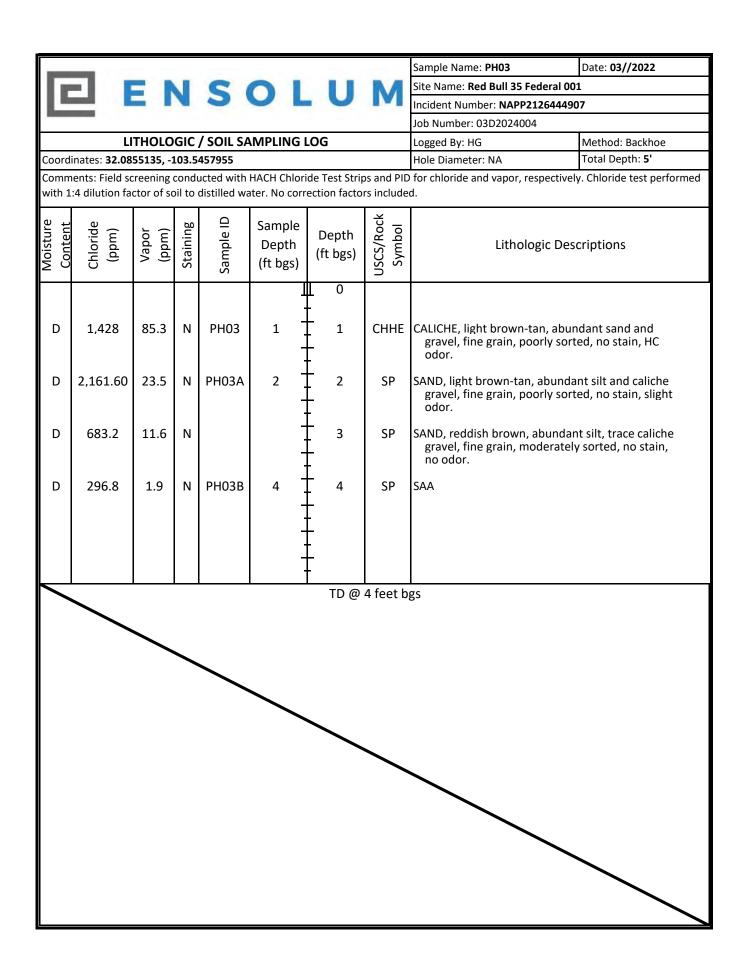


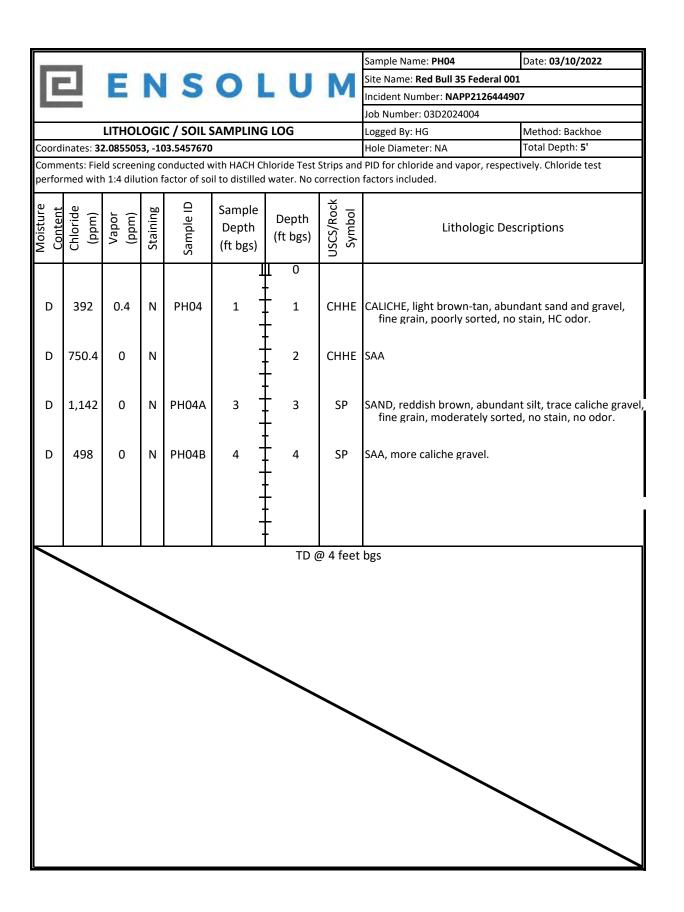
APPENDIX C

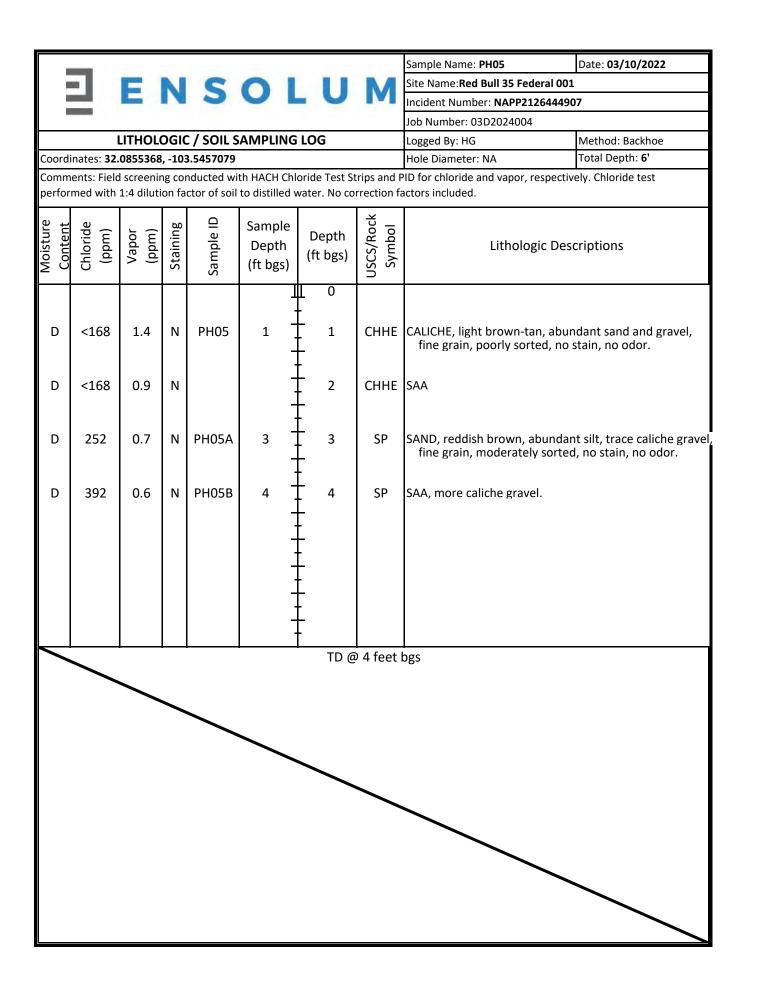
Lithologic Soil Sampling Logs

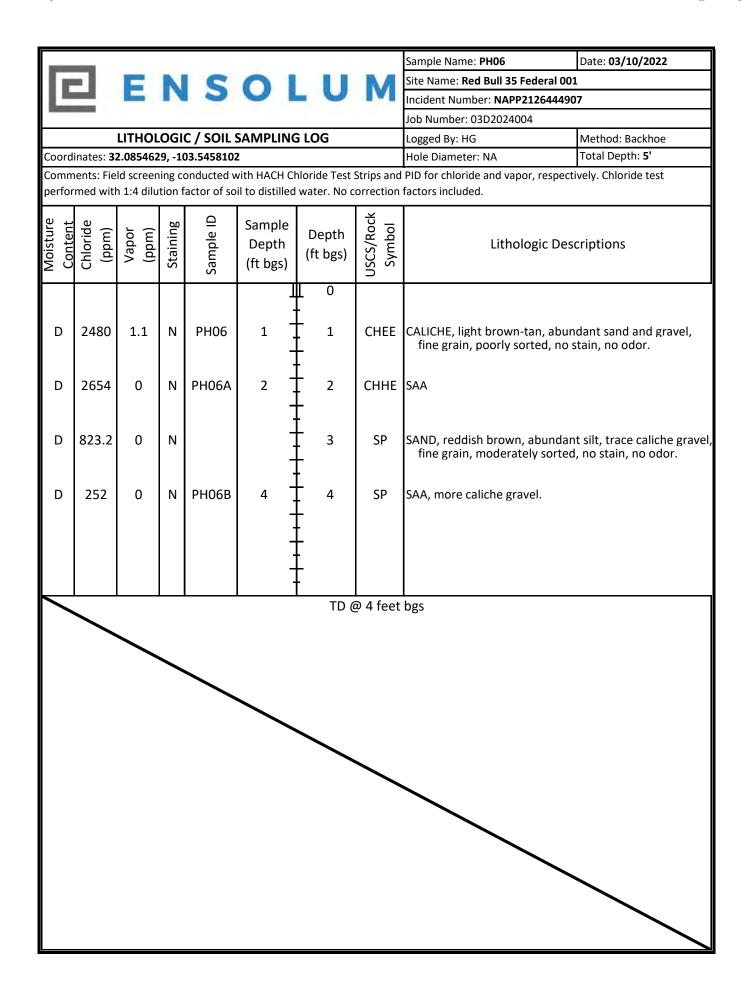














APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1700-1

Laboratory Sample Delivery Group: 31402909.170

Client Project/Site: Red Bull 35 Fed 1

For:

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

Attn: Kalei Jennings

JURAMER

Authorized for release by: 12/15/2021 3:12:54 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/9/2022 9:51:35 AM

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

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

1

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3

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0

7

8

10

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13

Н

Client: WSP USA Inc.

Laboratory Job ID: 890-1700-1

Project/Site: Red Bull 35 Fed 1

SDG: 31402909.170

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QC Sample Results	7
QC Association Summary	11
Lab Chronicle	13
Certification Summary	14
Method Summary	15
Sample Summary	16
Chain of Custody	17
Receipt Checklists	20

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Red Bull 35 Fed 1

Job ID: 890-1700-1 SDG: 31402909.170

Job ID: 890-1700-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1700-1

Receipt

The sample was received on 12/13/2021 12:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

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

GC Semi VOA

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

HPI C/IC

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

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Matrix: Solid

Lab Sample ID: 890-1700-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

Client Sample ID: PH01E

Date Collected: 12/06/21 14:20 Date Received: 12/13/21 12:31

Sample Depth: 7

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00547		0.00200	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
Toluene	0.0163		0.00200	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
Ethylbenzene	0.00691		0.00200	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
m-Xylene & p-Xylene	0.0268		0.00401	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
o-Xylene	0.0111		0.00200	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
Xylenes, Total	0.0379		0.00401	mg/Kg		12/14/21 10:00	12/14/21 20:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130			12/14/21 10:00	12/14/21 20:03	1
1,4-Difluorobenzene (Surr)	102		70 - 130			12/14/21 10:00	12/14/21 20:03	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0666		0.00401	mg/Kg			12/15/21 14:22	1
Analyte Total TPH		Qualifier U	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 12/13/21 12:32	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			12/13/21 12:32	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/14/21 21:57	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/14/21 21:57	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/14/21 21:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			12/14/21 14:49	12/14/21 21:57	1
o-Terphenyl	91		70 - 130			12/14/21 14:49	12/14/21 21:57	1
- Markada da OOO O - Addana - Lan Ohaa	omatography	Soluble						
Method: 300.0 - Anions, Ion Chro	Jilialograpily -	Colubic						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1699-A-1-A MS	Matrix Spike	103	99	
890-1699-A-1-B MSD	Matrix Spike Duplicate	107	104	
890-1700-1	PH01E	128	102	
LCS 880-14660/1-A	Lab Control Sample	99	105	
LCSD 880-14660/2-A	Lab Control Sample Dup	104	108	
MB 880-14660/5-A	Method Blank	117	102	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-1700-1	PH01E	98	91	
390-1700-1 MS	PH01E	89	85	
890-1700-1 MSD	PH01E	93	83	
Surrogate Legend				

OTPH = o-Terphenyl Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-14782/2-A	Lab Control Sample	103	91	
LCSD 880-14782/3-A	Lab Control Sample Dup	120	111	
MB 880-14782/1-A	Method Blank	91	89	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Lab Sample ID: LCS 880-14660/1-A

Matrix: Solid Analysis Batch: 14700

Analyte Benzene

Toluene Ethylbenzene m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

12/14/21 10:41

12/14/21 10:41

Prep Type: Total/NA

Prep Batch: 14660

MB	MB						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1

mg/Kg

mg/Kg

MB MB

<0.00200 U

<0.00400 U

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117	70 - 130	12/14/21 07:30	12/14/21 10:41	1
1.4-Difluorobenzene (Surr)	102	70 - 130	12/14/21 07:30	12/14/21 10:41	1

0.00200

0.00400

Client Sample ID: Lab Control Sample

12/14/21 07:30

12/14/21 07:30

Prep Type: Total/NA

Prep Batch: 14660

Prep Type: Total/NA

Prep Batch: 14660

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08602 mg/Kg 86 70 - 130 Toluene 0.100 0.07927 mg/Kg 79 70 - 130 0.100 78 Ethylbenzene 0.07784 mg/Kg 70 - 130 0.200 79 70 - 130 m-Xylene & p-Xylene 0.1589 mg/Kg 0.100 0.07845 70 - 130 o-Xylene mg/Kg 78

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-14660/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 14700

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	15	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08966		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09067		mg/Kg		91	70 - 130	14	35

LCSD LCSD

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

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Mat	rix Spike Duplicate
P	rep Type: Total/NA

Prep Batch: 14660

•	Sample	Sample	Spike	MSD	MSD				%Rec.	•	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0370		0.101	0.09777		mg/Kg					

Toluene 0.0642 0.101 0.09286 mg/Kg

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

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

Lab Sample ID: 890-1699-A-1-B MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 14700 Prep Batch: 14660 Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit Ethylbenzene 0.00482 0.101 0.09246 mg/Kg m-Xylene & p-Xylene 0.0144 0.201 0.1911 mg/Kg o-Xylene 0.00334 0.101 0.09407 mg/Kg MSD MSD Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 107

70 - 130

Lab Sample ID: 890-1699-A-1-A MS

Matrix: Solid

Surrogate

Analysis Batch: 14700

1,4-Difluorobenzene (Surr)

MS MS %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 103 70 - 130

104

70 - 130 1,4-Difluorobenzene (Surr) 99

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

Lab Sample ID: MB 880-14782/1-A Matrix: Solid

Analysis Batch: 14716

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
	MB	MB						

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/14/21 14:49	12/14/21 20:54	1
o-Terphenyl	89		70 - 130	12/14/21 14:49	12/14/21 20:54	1

Lab Sample ID: LCS 880-14782/2-A

Analysis Batch: 14716

Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Total/NA Prep Batch: 14782

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	966.5		mg/Kg		97	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	944.6		mg/Kg		94	70 - 130	
C10-C28)								

ı	.cs	LCS

Surrogate	%Recovery Qua	lifier Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	91	70 - 130

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Client Sample ID: Matrix Spike

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 14782

Lab Sample ID: LCSD 880-14782/3-A

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14782

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1015		mg/Kg		102	70 - 130	5	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	8	20
0.40, 0.00)									

C10-C28)

Matrix: Solid

Analysis Batch: 14716

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

Lab Sample ID: 890-1700-1 MS Client Sample ID: PH01E

Matrix: Solid

Prep Type: Total/NA **Analysis Batch: 14716**

Prep Batch: 14782

Spike MS MS %Rec. Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits 997 899.8 88 70 - 130 Gasoline Range Organics <49.9 U mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 997 917.4 mg/Kg 92 70 - 130 C10-C28)

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 85 70 - 130

Lab Sample ID: 890-1700-1 MSD Client Sample ID: PH01E **Matrix: Solid**

Analysis Batch: 14716

Prep Type: Total/NA Prep Batch: 14782

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit <49.9 U 999 902.0 88 20 Gasoline Range Organics 70 - 130 0 mg/Kg (GRO)-C6-C10 999 924.2 mg/Kg 93 70 - 130 Diesel Range Organics (Over <49.9 L 20 C10-C28)

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 93 70 - 130 83 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14779/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

MB MB Analyte Result Qualifier RL Unit Analyzed Dil Fac D Prepared Chloride <5.00 U 5.00 12/14/21 20:56 mg/Kg

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1

SDG: 31402909.170

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14779/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 267.1 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-14779/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 267.8 mg/Kg 107 90 - 110 0

Lab Sample ID: 880-9308-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 14808

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 38.7 F1 248 323.0 F1 90 - 110 mg/Kg 115

Lab Sample ID: 880-9308-A-1-I MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 14808

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 318.0 F1 Chloride 38.7 F1 248 113 90 - 110 20 mg/Kg

QC Association Summary

Client: WSP USA Inc.
Project/Site: Red Bull 35 Fed 1

Job ID: 890-1700-1 SDG: 31402909.170

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Total/NA	Solid	5035	
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Total/NA	Solid	8021B	14660
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	8021B	14660
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14660
890-1699-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14660

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Total/NA	Solid	8015 NM	

Analysis Batch: 14716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Total/NA	Solid	8015B NM	14782
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015B NM	14782
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14782
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14782
890-1700-1 MS	PH01E	Total/NA	Solid	8015B NM	14782
890-1700-1 MSD	PH01E	Total/NA	Solid	8015B NM	14782

Prep Batch: 14782

Lab Sample ID 890-1700-1 MB 880-14782/1-A	Client Sample ID PH01E Method Blank	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 8015NM Prep 8015NM Prep	Prep Batch
LCS 880-14782/2-A LCSD 880-14782/3-A	Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA	Solid Solid	8015NM Prep 8015NM Prep	
890-1700-1 MS 890-1700-1 MSD	PH01E PH01E	Total/NA Total/NA	Solid Solid	8015NM Prep 8015NM Prep	

HPLC/IC

Leach Batch: 14779

Lab Sample ID 890-1700-1	Client Sample ID PH01E	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-14779/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	

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QC Association Summary

Client: WSP USA Inc. Job ID: 890-1700-1 Project/Site: Red Bull 35 Fed 1 SDG: 31402909.170

HPLC/IC (Continued)

Leach Batch: 14779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1700-1	PH01E	Soluble	Solid	300.0	14779
MB 880-14779/1-A	Method Blank	Soluble	Solid	300.0	14779
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	300.0	14779
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14779
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	14779
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14779

Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1700-1

 Project/Site: Red Bull 35 Fed 1
 SDG: 31402909.170

Client Sample ID: PH01E

Lab Sample ID: 890-1700-1

Date Collected: 12/06/21 14:20 Date Received: 12/13/21 12:31

•	Matrix: Solid

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 20:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/14/21 21:57	AJ	XEN MID
Soluble	Leach	DI Leach			14779	12/14/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1	14808	12/14/21 23:49	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1700-1

 Project/Site: Red Bull 35 Fed 1
 SDG: 31402909.170

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, but	t the laboratory is not certific	ed by the governing authority. This list ma	av include analytee for
the agency does not of	• •	it the laboratory is not certifi	ed by the governing admonty. This list his	ay include arialytes for t
,	• •	Matrix	Analyte	ay include analytes for v
the agency does not of	fer certification.	•	, , ,	ay include analytes for v

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Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX

8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Red Bull 35 Fed 1

Job ID: 890-1700-1

SDG: 31402909.170

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

XEN MID

XEN MID

SW846

ASTM

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed 1

Job ID: 890-1700-1

SDG: 31402909.170

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1700-1	PH01E	Solid	12/06/21 14:20	12/13/21 12:31	7

200	
Dallas,TX (2	Chain
14) 902-0300	of Cu
San Antonio, TX (210) 509-3	ISTOCY

5	1 ARMAG E	TIM AMI	Relinquished by: (Signature)	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 chapte 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.	Total 200.7 / 6010 Circle Method(s) &							PH01E	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone:	City, State ZIP:	Address:		Project Manager:	× X
)	(Signature)	ocument and relinquishme lable only for the cost of si ge of \$75.00 will be applic	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed									Yes No	Yes No	(Yes No	3,2/3.0	IPT Temp Blank:	Elli		31402	Red Bu	(432) 236-3849	Midland, TX 79705	3300 North A Street	WSP Permian office	Dan Moir	XENCO
		los Cio	Received b	ent of samples constitu amples and shall not as ad to each project and a	유							S 12/6/2021	Matrix Date Sampled	N/A Total	(N/A) Corre		(ank: (Yes) No	Elliot Lee		31402909.170	Red Bull 35 Fed 1				Œ		
	_	8	Received by: (Signature)	tes a valid purcha ssume any respon a charge of \$5 for	8RCRA 13PPM TCLP/SPLP							14:20	Time Sampled	Total Containers:	Correction Factor:	NW CON	Thermometer ID	Wet Ice:	Due Date:	Rush: 30ky	Routine	Turn	Email: E	C	Þ	0	B	Houston,TX Midland,T: NM (575-392-75
				ise order from clie isibility for any los each sample subn	RCRA 13PPM Texas 11 AI							7	Depth		0.2		((Yes) No) ate:	Day TAT		Turn Around	Email: Elliot.Lee@wsp.com,	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	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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		6-13-21 1231	Date/Time	ny to Xen penses in enco, but	As Ba As Ba						$\dagger \dagger$	×	BTEX (_							+		Kalei.Jennings@wsp.com	Carlsbad, NM, 88220	3104 E Green Street	XTO Energy	Adrian Baker	X (214) § o,TX (91 -0900) A
	$\overline{}$	23)		co, its affi curred by not analy	Be B Be C							×	Chlorid	le (El	PA 3	00.0)				T		ngs@w	M, 8822	en Stree		4	02-0300 5)585-34 tlanta,G
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				ractors. It osses are vill be enf	Cr Co Cu Cu Pb Mr	-	+	+				+		_			90-1700	Ē				ANALYSIS						(210) 509 306)794- Tampa,
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			ıre)	standard rcumstan ess previ	Mg M li Se /										•		of Custo				T	ST	Delive	Repor	Sta	Progr		\$20-2000
				It assigns standard terms and conditions e due to circumstances beyond the contro rforced unless previously negotiated.	Pb Mg Mn Mo Ni o Ni Se Ag Tl U)dy						Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		
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			ıre)		Na Sr TI Sn ∪ V 1631 / 245.1 / 7470				\dagger						TAT						Incid			□T/UST			Work Order Comments	² age
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Eurofins Xenco, Carlsbad

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1089 N Canal St	0	hain	Chain of Custody Record	tody R	ecc	ă														90	🔆 eurofins	 	Environment Testing
Phone 575-988-3199 Fax: 575-988-3199																						,	
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer,	ner, Je	Jessica							Cam	Carrier Tracking No(s)	cking	No(s	·			ထွ င	COC No. 890-543 1		
	Phone:			E-Mail jessic	E-Mail jessica kramer@eurofinset.com	mer()eun	ofins	et.co	3			State	State of Origin New Mexico	gi gi					ק ס	Page: Page 1 of 1		
Company: Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana NELAP	ccreditations Required (See note	s Req	uired ana	See r	TU (D)	- Texas	S								86 P	Job #: 890-1700-1		
Address 1211 W Florida Ave, ,	Due Date Requested 12/16/2021								>	Analysis Requested	Sis	Rec	lues	ë				- 1		<u> </u>	Preservation Codes	: es	:
City Midland	TAT Requested (days):	/s):			<u> </u>	etalliano l	\neg	\neg	\neg	ヿ							ヿ	\dashv		ດຫ>	A - HCL B NaOH C - Zn Acetate) z z	M Hexane N None O AsNaO2
State, Zip. TX 79701						TPH													ć	ПО	Nitric Acid - NaHSO4	יִיּס	Na204S Na2SO3
Phone: 432-704-5440(Tel)	PO #)	D) Full		ie												<u>⊿_</u> ⊑ດ⊤	G - Amchlor H Ascorbic Acid	ب س بر	R - Na2S2O3 S H2SO4 T TSP Dodecahudrate
Email:	WO#				\$1.00 (60) ***** \$100	28.6990-19-01p		Chloric	EX										omanga	Mar 10 th No		< ⊂ -	U Acetone V-MCAA
Project Name Red Bull 35 Fed 1	Project #: 890000004				39600-071-080			ACH	DD) B										sinor		EDTA EDA	ΝŞ	pH 4-5 other (specify)
Site.	SSOW#:				erisconceror ser	7000, 2000		D/DI_L	aic (M	,										300 de la 19	Other:		
			Sample Type	Matrix (w=water	Filtered S m MS/M	OD_NM/80	OD_Calc	RGFM_28	6035FP_C	STEX_GC								·····	Number	-amber			
Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	<u> </u>	S#SOIIG, O=waste/oil, BT=Tissue, A=Air)	anotatoust.	100000000000000000000000000000000000000	8015M	300_0	8021B	Total_									Total	ıotai	Special In	ıstrı	Special Instructions/Note
	X	X	Preservation Code:	ion Code:	X							9		often			1 4		V	A			
PH03E (890-1700-1)	12/6/21	14 20 Mountain		Solid		×	×	×	×	×									. Josephil	4			
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maintain accreditation in the State of Origin listed above for analysis/tests/matrix between the sample of the samples of the	ing analyzed the sa signed Chain of Cus	mples must be tody attesting t	shipped back to said complic	to the Eurofins	Xenco Is Xenc	o LTC	borat	ory or	other	instru	tions	Will b	prov	ded	Any	hang	es to	accre	ditati	ion si	tatus should be br	ought.	to Eurofins Xenco LLC
Possible Hazard Identification Unconfirmed					S]dure	le Disposal (A fi Return To Client	pos	الار) عا (ر	fee	тау	☐be a	assessed if san Disposal By Lah	ssea	if s	due	les		etai	inec	Sample Disposal (A fee may be assessed if samples are retained longer than Return To Client Disposal RV Lab Archive For	1 mc	1 month)
Deliverable Requested I II III IV Other (specify)	Primary Deliverable Rank. 2	ble Rank. 2			Sp	Special Instructions/QC	Inst	ructi	ons/C		Requirements	eme.	ß,		ľ	l	l				Annual designation of the second		
Empty Kit Relinquished by		Date			Time									Met	Method of Shipment:	Ship	ment						
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Relinquished by:	Date/Time:			Company		Rec	Received by:	by:								Dat	Date/Time	ē				δ	Company
Custody Seals Intact: Custody Seal No						ဂ္ဂ	Cooler Temperature(s) °C	mper	ature(and Other Remarks.	her R	mark	1	3	Marketonine.	ا ذر	G	12	I		H	927

Ver: 06/08/2021

1089 N Canal St

Carlsbad, NM 88220 Phone: 575-988-3199 Fax 575-988-3199

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Eurofins Xenco, Carlsbad

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Chain of Custody Record

🖏 eurofins

Environment Testing
America

State Zip TX 79701 PH03E (890-1700-1) Project Name: Red Bull 35 Fed 1 Deliverable Requested | II III, IV Other (specify) ossible Hazard Identification lote: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currenty naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC. 432-704-5440(Tel) Eurofins Xenco Shipping/Receiving elinquished by Midland 1211 W Florida Ave Client Information (Sub Contract Lab) elinquished by mpty Kit Relinquished by ample Identification - Client ID (Lab ID) Custody Seals Intact: inquished by ent Contact: Custody Seal No Project # 89000004 Phone: Primary Deliverable Rank 2 TAT Requested (days): Due Date Requested 12/16/2021 Sample Date イエア 12/6/21 Date Mountair Sample 14 20 8 (C=comp, Sample Type Preservation Code: Company Company Matrix Solid Kramer Jessica jessica kramer@eurofinset com Field Filtered Sample (Yes or No) Time Accreditations Required (See note):
NELAP - Louisiana NELAP - Texas Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Received by 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH Cooler Temperature(s) °C and Other Remarks. × 8015MOD Calc × 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc (MOD) BTEX × Analysis Requested Total_BTEX_GCV State of Origin
New Mexico D Carrier Tracking No(s) Method of Shipment ω)ate/Time زن Total Number of containers A - HCL
B NaOH
C Zn Acetate
D Nitric Acid
E NaHSO4
F Machor
G Amchor
H - Ascorbic Acid
I Ice
J DI Water
K EDTA
L - EDA Page: Page 1 of 1 COC No: 890-543 1 Preservation Codes 890-1700-1 Special Instructions/Note: M Hexane
N None
O -AsNaO2
P NaZO4S
Q - NaZSO3
R NaZSCO3
S - H2SO4
T TSP Dodecahydrate
U - Acetone
V - MCAA
W pH 4-5
Z other (specify) Company Company Ver: 06/08/2021 D'O

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1700-1 SDG Number: 31402909.170

List Source: Eurofins Xenco, Carlsbad

Login Number: 1700 List Number: 1 Creator: Clifton, Cloe

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

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1700-1 SDG Number: 31402909.170

Login Number: 1700
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 12/14/21 12:00 PM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1701-1

Laboratory Sample Delivery Group: 31402909.170

Client Project/Site: Red Bull 35 Fed1

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 12/15/2021 3:12:54 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/9/2022 9:51:35 AM

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

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

Client: WSP USA Inc.

Laboratory Job ID: 890-1701-1

Project/Site: Red Bull 35 Fed1

SDG: 31402909.170

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1701-1 Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

Qualifiers

GC VOA

Qualifier **Qualifier Description** S1+ Surrogate recovery exceeds control limits, high biased.

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.
Project/Site: Red Bull 35 Fed1

Job ID: 890-1701-1 SDG: 31402909.170

Job ID: 890-1701-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1701-1

Receipt

The sample was received on 12/13/2021 12:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

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

GC Semi VOA

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

HPI C/IC

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

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Matrix: Solid

Lab Sample ID: 890-1701-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Client Sample ID: PH01D

Date Collected: 12/06/21 14:00 Date Received: 12/13/21 12:31

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.00332		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:24	
Toluene	0.0130		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:24	
Ethylbenzene	0.00394		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:24	
m-Xylene & p-Xylene	0.0214		0.00396	mg/Kg		12/14/21 10:00	12/14/21 20:24	
o-Xylene	0.0115		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:24	
Xylenes, Total	0.0329		0.00396	mg/Kg		12/14/21 10:00	12/14/21 20:24	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	142	S1+	70 - 130			12/14/21 10:00	12/14/21 20:24	
1,4-Difluorobenzene (Surr)	102		70 - 130			12/14/21 10:00	12/14/21 20:24	
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.0532		0.00396	mg/Kg			12/15/21 14:22	
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0	mg/Kg			12/13/21 12:32	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 22:59	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 22:59	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 22:59	
	% Pocovory	Qualifier	Limits			Prepared	Analyzed	Dil Fa
Surrogate	/«Necovery					10/11/01 11 10		
_	105		70 - 130			12/14/21 14:49	12/14/21 22:59	
1-Chlorooctane			70 ₋ 130 70 ₋ 130			12/14/21 14:49 12/14/21 14:49	12/14/21 22:59 12/14/21 22:59	
Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	105 90	Soluble						
1-Chlorooctane o-Terphenyl	105 90 omatography -	Soluble Qualifier		Unit	<u>D</u>			Dil Fa

Eurofins Xenco, Carlsbad

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Surrogate Summary

Client: WSP USA Inc. Job ID: 890-1701-1 Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1699-A-1-A MS	Matrix Spike	103	99	
890-1699-A-1-B MSD	Matrix Spike Duplicate	107	104	
890-1701-1	PH01D	142 S1+	102	
LCS 880-14660/1-A	Lab Control Sample	99	105	
LCSD 880-14660/2-A	Lab Control Sample Dup	104	108	
MB 880-14660/5-A	Method Blank	117	102	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1700-A-1-G MS	Matrix Spike	89	85
890-1700-A-1-H MSD	Matrix Spike Duplicate	93	83
890-1701-1	PH01D	105	90
Surrogate Legend			
1CO = 1-Chlorooctane			

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Reco
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-14782/2-A	Lab Control Sample	103	91	
LCSD 880-14782/3-A	Lab Control Sample Dup	120	111	
MB 880-14782/1-A	Method Blank	91	89	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Lab Sample ID: LCS 880-14660/1-A

Matrix: Solid

Analysis Batch: 14700

Matrix: Solid Analysis Batch: 14700 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14660

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/14/21 07:30	12/14/21 10:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/14/21 07:30	12/14/21 10:41	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14660

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08602 mg/Kg 86 70 - 130 Toluene 0.100 0.07927 mg/Kg 79 70 - 130 78 Ethylbenzene 0.100 0.07784 mg/Kg 70 - 130 70 - 130 79 m-Xylene & p-Xylene 0.200 0.1589 mg/Kg 0.100 o-Xylene 0.07845 mg/Kg 78 70 - 130

LCS LCS

Surrogate	%Recovery Q	ualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Lab Sample ID: LCSD 880-14660/2-A

Analysis Batch: 14700

Prep Type: Total/NA Prep Batch: 14660

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	15	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08966		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09067		mg/Kg		91	70 - 130	14	35

LCSD LCSD

0.0642

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

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Toluene

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14660

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit 0.0370 0.101 Benzene 0.09777 mg/Kg

0.09286

mg/Kg

0.101

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QC Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

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

Lab Sample ID: 890-1699-A-1-B MSD Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 14660

•	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	0.00482		0.101	0.09246		mg/Kg	_ <u>-</u>				
m-Xylene & p-Xylene	0.0144		0.201	0.1911		mg/Kg					
o-Xylene	0.00334		0.101	0.09407		mg/Kg					

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1699-A-1-A MS

Matrix: Solid

Analysis Batch: 14700

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

nalysis batch. 14700

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 4-Bromofluorobenzene (Surr)
 103
 70 - 130

 1,4-Diffluorobenzene (Surr)
 99
 70 - 130

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

Lab Sample ID: MB 880-14782/1-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14782

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	12/14/21 14:49	12/14/21 20:54	1
o-Terphenyl	89		70 - 130	12/14/21 14:49	12/14/21 20:54	1

Lab Sample ID: LCS 880-14782/2-A

Released to Imaging: 9/9/2022 9:51:35 AM

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14782

Spike LCS LCS Analyte Added Result Qualifier Unit Limits Gasoline Range Organics 1000 966.5 97 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 944.6 mg/Kg 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery G	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	91		70 - 130

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Job ID: 890-1701-1

Client: WSP USA Inc. Project/Site: Red Bull 35 Fed1

SDG: 31402909.170

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

Lab Sample ID: LCSD 880-14782/3-A

Matrix: Solid

Analysis Batch: 14716

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 14782

Spike LCSD LCSD RPD Analyte Added Result Qualifier %Rec Limits RPD Limit Unit Gasoline Range Organics 1000 1015 mg/Kg 102 70 - 130 5 20 (GRO)-C6-C10 1000 Diesel Range Organics (Over 1024 mg/Kg 102 70 - 130 8 20

C10-C28)

LCSD LCSD

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

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14782

Lab Sample ID: 890-1700-A-1-G MS

Matrix: Solid

Analysis Batch: 14716

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	899.8		mg/Kg		88	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	917.4		mg/Kg		92	70 - 130	
C10-C28)										

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 85 70 - 130 o-Terphenyl

Lab Sample ID: 890-1700-A-1-H MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 14716									Prep	Batch:	14782
	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	999	902.0		mg/Kg		88	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.2		mg/Kg		93	70 - 130	1	20

MSD MSD Qualifier Surrogate %Recovery

Limits 1-Chlorooctane 93 70 - 130 83 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14779/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14808

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/14/21 20:56	1

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1701-1 Project/Site: Red Bull 35 Fed1

SDG: 31402909.170

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14779/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 267.1 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-14779/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 267.8 mg/Kg 107 90 - 110 0

Lab Sample ID: 880-9308-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 14808

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 38.7 F1 248 323.0 F1 90 - 110 mg/Kg 115

Lab Sample ID: 880-9308-A-1-I MSD Client Sample ID: Matrix Spike Duplicate Matrix: Solid **Prep Type: Soluble**

Analysis Batch: 14808 MSD MSD Sample Sample Spike

RPD %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec RPD Limit Limits 318.0 F1 Chloride 38.7 F1 248 113 90 - 110 20 mg/Kg

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Total/NA	Solid	5035	
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Total/NA	Solid	8021B	14660
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	8021B	14660
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14660
890-1699-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14660

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Total/NA	Solid	8015 NM	

Analysis Batch: 14716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Total/NA	Solid	8015B NM	14782
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015B NM	14782
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14782
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14782
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	14782
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14782

Prep Batch: 14782

Lab Sample ID 890-1701-1 MB 880-14782/1-A	Client Sample ID PH01D Method Blank	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 8015NM Prep 8015NM Prep	Prep Batch
LCS 880-14782/2-A LCSD 880-14782/3-A	Lab Control Sample Lab Control Sample Dup	Total/NA Total/NA	Solid Solid	8015NM Prep	
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 14779

Lab Sample ID 890-1701-1	Client Sample ID PH01D	Prep Type Soluble	Matrix Solid	Method DI Leach	Prep Batch
MB 880-14779/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	

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12/15/2021

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

HPLC/IC (Continued)

Leach Batch: 14779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1701-1	PH01D	Soluble	Solid	300.0	14779
MB 880-14779/1-A	Method Blank	Soluble	Solid	300.0	14779
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	300.0	14779
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14779
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	14779
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14779

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Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Client Sample ID: PH01D

Lab Sample ID: 890-1701-1

Matrix: Solid

Date Collected: 12/06/21 14:00 Date Received: 12/13/21 12:31

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 20:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/14/21 22:59	AJ	XEN MID
Soluble	Leach	DI Leach			14779	12/14/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		1	14808	12/14/21 23:56	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1701-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Laboratory: Eurofins Xenco, Midland

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

Authority	Pr	ogram	Identification Number	Expiration Date
Texas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for
the agency does not of	• •	are resonately to not our in	od by the governing additionty. This list his	ay include analytes for
the agency does not of Analysis Method	• •	Matrix	Analyte	ay molade analytes for
0 ,	fer certification.	•	, , ,	

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Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed1

Job ID: 890-1701-1

SDG: 31402909.170

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed1

Job ID: 890-1701-1

SDG: 31402909.170

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1701-1	PH01D	Solid	12/06/21 14:00	12/13/21 12:31	6

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Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: BRCRA 13PPM Texas 11 AI 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: BRCRA Sb As Ba Be Cd Cr Co Cu Fe Pb Mn Mo Ni K Se Ag Ti U 1631/245.1/7470 /7471: Hg Notice: Signature of this document and relinquishment of samples constitues a valid purchase order from client company to Xnoro, ill be inable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client a such losses are due to circumstance a begind shadderd terms and conditions of Xnoro, a minimum analyse / Sirs or any in base price of a cample power and a candid not be spriced to each project and a cample of Sis for each samples submitted to Xnoro, but not analysed: These terms will be enforced unless previously registrated. Refliquished by, (Signature) Date/Time Refinquished by: (Signature) Date/Time Refinquished by: (Signature) Date/Time	ompany to Xenco, its a or expenses incurred of to Xenco, but not and discountry to Date/Time	12:	Composition of the control of the co	live		MANNAMA
Fe Pb Mg Mn Mo Ni K Se Ag SiO2 In Mo Ni Se Ag TI U It assigns standard terms and conditions re due to circumstances beyond the control inforced unless previously negotiated. (Signature) Received by: (Signature)	umpany to Xenco, its a or expenses incurred to Xenco, but not an Date/Time					
Fe Pb Mg Mn Mo Ni K Se Ag SiO2 In Mo Ni Se Ag TI U It assigns standard terms and conditions the due to circumstances beyond the control inforced unless previously negotiated.	ompany to Xenco, its a or expenses incurred to Xenco, but not an		Received by: (Signature)	→ Received	(Signature)	Reinquished by: (Signature)
Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2		se order from client co sibility for any losses (each sample submitted	titutes a valid purcha t assume any respon nd a charge of \$5 for o	samples const es and shall no each project an	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. 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 at 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 a	Notice: Signature of this docu of service. Xenco will be liable of Xenco. A minimum charge
	Sb As Ba Be B Cd or Sb As Ba Be Cd Cr	Texas 11 AI 3010: 8RCRA	8RCRA 13PPM TCLP / SPLP (otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) :
Discrete	× ×	<u>م</u>	14:00	12/6/2021	S	PH01D
	ВТ		(0	Sampled		Campio Identi
Sample Comments	EX (E	mbe	Time	Date	in a	Cample Identification
	PA 0=86	rof Co	Correction Factor: - Total Containers:	Cor	Yes No WA	Cooler Custody Seals: Sample Custody Seals:
890-1701 Chain of Custody		ntair	FOST WIN	4	Ce No	Received Intact:
			Thermometer ID		3.2	Temperature (°C):
		Yes) No	Wet Ice: Yes	(Yes) No	PT Temp Blank: (Yes) No	SAMPLE RECEIPT
		le:	Due Date:	ee	Elliot Lee	Sampter's Name:
		Day TAT	Rush: 30kg			P.O. Number:
Incident # NAPP2126444907			Routine	9.170	31402909.170	Project Number:
ANALYSIS REQUEST Work Order Notes		Turn Around	Turn	Fed 1	Red Bull 35 Fed 1	Project Name:
wsp.com Deliverables: EDD ADaPT Other:	, Kalei.Jennings@wsp.com	Email: Elliot.Lee@wsp.com,	Email: El		(432) 236-3849	Phone:
	Carlsbad, NM, 88220	City, State ZIP:	Ω		Midland, TX 79705	City, State ZIP:
State of Project:	3104 E Green Street	Address:	Ac		3300 North A Street	
Program: UST/PSTRPrownfieldsRCRperfund	XTO Energy	Company Name:	Q		WSP Permian office	Company Name: V
Work Order Comments	Adrian Baker	Bill to: (if different)	<u>B</u>		Dan Moir	Project Manager:

Eurofins Xenco, Carlsbad

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Lab PM	1) 100014
Carrier Tracking No(s)	
COC No:	America

Column C	1089 N Canal St	<u> </u>	hain o	of Cust	odv R	cord											500	💸 eurofins	Environment Testing
Sample Due Date Requested Analysis Requested Requested Analysis Requested Analysis Requested Requested Requested Requested Requested Requested Requested	Phone 575-988-3199 Fax 575-988-3199																		America
Due Date Requested Company Comp	ļ	Sampler			Lab PN Kram	~					Car	rier Tra	cking t	(s)ol		l	<u></u>)C No: 10-543 1	
Due Date Requested (Gee note) Total Bress Project Frequested Fr		Phone			E-Mail- jessic	a kramer@	eurofir	set co	Ž		Sta	w Me	ĝ g				ਹੁ ਹ	age ane 1 of 1	
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Polyscot # Sample	Address 1211 W Florida Ave	Due Date Requeste 12/16/2021	ė.					,	naly	sis R	eque	sted	1			ı	ᇴ	읾	
PO# PO# Received by Conpany Point Received by Conpany Point Received by Conpany Received by Received by Conpany Received by Con	City Midland	TAT Requested (da	ys):					\dashv		_	\dashv	┪		4	4	- 7) BD A		M Hexane N None
PO.#. Project # Sample Sample Company Received by Compa	State Zlp TX 79701	L				ТРН						***************************************				(0) 440/ · · · -	m o c		O AsNaO2 P Na2O4S Q Na2SO3
WO# Project #: B90000004 Sample Sample Watrix Project #: B90000004 Sample Sample Watrix Project #: Sample Date Time C=Comp.	Phone: 432-704-5440(Tel)	PO#:				77 - 77 - 1385, 206	-									w2-00)	<i>வைக்</i>		R Na2S2O3 S-H2SO4
Sample Date Time Sample C-comp. Watrix Sample Sample Sample C-comp. Type Second Street Sample Sample Sample Sample Sample C-comp. Type Second Street Sample Street Sample Street Sample Street Sample Second Street Sample Street Sample Street Sample Street Sample Second Street Sample Street	Email	#O#				lo)	No. 1 market			•						,, , ,	eracille sav		U - Acetone U MCAA
Sample Sample C=Comp. Sample (W-water Sample C=Comp. Sample C=Comp. Sample C=Comp. Sample C=Comp. Solid So	Project Name: Red Bull 35 Fed1	Project #: 89000004				s or I	A CH									Telés.	r		W pH 4-5 Z other (specify)
Sample Sample (C=Comp., Sample (C=Comp., C=Sample (C=Comp., C=Comp., C=Sample (C=Comp., C=Solid X X X X X X X X X X X X X X X X X X X	Site.	SSOW#			en eu con en	D (Ye	VDI 1.		/							e enni	March Co	her:	
Sample Date Time G=grab) Fige-proposition, Code: 14 00 126/21 Mountain Solid X X X X X X X X X X X X X X X X X X X						n MS/M			TEX_GC						-	mbar	IIIDEI S		
12/6/21 14 00 12/6/21 Mountain Solid X X X X X X X X X X X X X X X X X X X	Sample Identification - Client ID (Lab ID)	Sample Date				Perfor			Total_E							otal N	O	Special land	
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Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Date/Time Company Conter Temperature(s) °C	ph01d (890-1701-1)	12/6/21	14 00 Mountain		Solid	×	-		×							Carl		14.0	
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rofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories alysis/fests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instruct date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Sample Disposal (A fee								+			+			<u> </u>	-	1 7	<u> </u>		
rofins Xenco LLC places the ownership of method, analyse & accreditation compliance upon out subcontract laboratories slysisflests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions in to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Sample Disposal (A feeturn To Client								+		-		1		<u> </u>	+	.	<u>alkan</u>		
rofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories alysis/lests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC. Idaboratory or other instruct to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Sample Disposal (A feter										-	+						<u></u>		
Sample Disposal (A fee may be assessed if samples are retained longer than 1 mm Primary Deliverable Rank. 2 Special Instructions/QC Requirements Method of Shipment.	Note Since laboratory accreditations are subject to change Eurofins Xenco LLC maintain accreditation in the State of Origin listed above for analysis/tests/matrix latention immediately If all requested accreditations are current to date return the	olaces the ownership opening analyzed the saile	of method, analy mples must be a tody attesting to	te & accredita shipped back to said complice	tion compliance o the Eurofins X	upon out sub lenco LLC lab Xenco LLC.	contract oratory	laborate or other	ories T instruct	his sam ons will	ple ship be prov	ment i	s forwa Any ch	rded u	nder ch	nain-o editati	f-cust on sta	ody If the laboraton	y does not currently ht to Eurofins Xenco LLC
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Ver 06/08/2021

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Environment Testing America

Eurofins Xenco, Carlsbad 1089 N Canal St **Chain of Custody Record**

Carlsbad, NM 88220 Phone 575,088,3100 Fay: 575,088,3100		ilalli C	י לעטר	Cusiony Necord	Ç	2				=										America
Client Information (Sub Contract ab)	Sampler			Lab PM	Lab PM					1	_	Carrier Tracking No(s)	Track	ng No	<u>©</u>		- 1	<u> </u>	COC No	
- 1	Phone			E-Mail	SMail		rofine	8	3		- (0	State of Origin	Origin	' [0 70 0	Page:	
Company Eurofins Xenco					Accreditations Required (See note) NELAP - Louisiana, NELAP	tions R	equired	(See n	ا پي	Texas	L			ľ				<u>∞ ⊱</u>	Job #: 890-1701-1	
Address 1211 W Florida Ave, ,	Due Date Requested 12/16/2021	٩			l		l	→		ysis Requested	eg	lest	ᆲ				ı	╗	000	
City Midland	TAT Requested (days)	ys)				_						_			\dashv	\dashv	,, ,	∩ ® >	HCL NaOH Zn Acetate	M Hexane N None
State, Zip TX 79701				Risonan Turr		TPH		***************************************									 	IM O	Nitric Acid NaHSO4	Na204S 2-Na2SO3
Phone: 432-704-5440(TeI)	PO#			2 88)	D) Full	ie											r O TI	MeOH Amchlor	Na2S2O3 B H2SO4
Email	WO#				SESSE SE	p (MO	Chloric										<u></u>	Stormer Mits	lce Di Water	U Acetone V MCAA
Project Name Red Bull 35 Fed1	Project #: 89000004				wiselington	_S_Pre	EACH											ainer	C EDTA V	W - pH 4-5 Z other (specify)
Site	#WOSS				000000000000000000000000000000000000000	015NM	D/DI_L		v								307.32		Other:	
			Sample Type	Matrix (W=water S=solid	Filtered S orm MS/M	10D_NM/8	fOD_Caic DRGFM_28	3/5035FP_C	BTEX_GC								ss	Number		
Sample Identification - Client ID (Lab ID)	Sample Date	Time	G=grab) ₈₁	O=waste/oil, BT=Tissue, A=Air)	Soveral III		_		Total									lota	Special Inst	Special Instructions/Note:
	V	1	Preservation Code:	on Code:	$\stackrel{\diamond}{\boxtimes}$			4					tach		أحيط	200				
ph01d (890-1701-1)	12/6/21	Mountain		Solid		×	×	×	×								yp	4.		
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Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	places the ownership opening analyzed the sa	of method analy mples must be s tody attesting to	te & accreditat shipped back to said complica	ion compliance the Eurofins >	(enco LL Xenco L	ut subco .C labor .LC.	ntract I atory o	aborate other	ories.	This sa tions w	ill be p	hipme	entis f	orward y chai	ded ur nges t	nder c o acci	hain-c editat	of-cus	stody If the laboratory tatus should be brough	/ does not currently ht to Eurofins Xenco LLC
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Custody Seals Intact. Custody Seal No						Cooler Temperature(s) °C	emper	ature(s		and Other Remarks.	er Ren	arks.	ı	'nΓ		w	P	l	; 	のグレ

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1701-1 SDG Number: 31402909.170

List Source: Eurofins Xenco, Carlsbad

Login Number: 1701 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1701-1 SDG Number: 31402909.170

List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 12/14/21 12:00 PM

Creator: Rodriguez, Leticia

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

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1702-1

Laboratory Sample Delivery Group: 31402909.170

Client Project/Site: Red Bull 35 Fed1

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 12/15/2021 3:13:11 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/9/2022 9:51:35 AM

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

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

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Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed1

Laboratory Job ID: 890-1702-1

SDG: 31402909.170

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1702-1 Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

F1 MS and/or MSD recovery exceeds control limits. 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
051	Outlife For the M

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

Duplicate Error Ratio (normalized absolute difference) DER

Dil Fac Dilution Factor

Detection Limit (DoD/DOE) DL

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)

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

NC Not Calculated

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

NFG 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)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Project/Site: Red Bull 35 Fed1 Job ID: 890-1702-1

SDG: 31402909.170

Job ID: 890-1702-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1702-1

Receipt

The sample was received on 12/13/2021 12:31 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 3.0°C

GC VOA

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

GC Semi VOA

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

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

Matrix: Solid

Lab Sample ID: 890-1702-1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Client Sample ID: PH01C

Date Collected: 12/06/21 13:55 Date Received: 12/13/21 12:31

Sample Depth: 5

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.00923		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:44	
Toluene	0.0291		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:44	
Ethylbenzene	0.00705		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:44	
m-Xylene & p-Xylene	0.0384		0.00397	mg/Kg		12/14/21 10:00	12/14/21 20:44	
o-Xylene	0.0187		0.00198	mg/Kg		12/14/21 10:00	12/14/21 20:44	
Xylenes, Total	0.0571		0.00397	mg/Kg		12/14/21 10:00	12/14/21 20:44	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	111		70 - 130			12/14/21 10:00	12/14/21 20:44	
1,4-Difluorobenzene (Surr)	110		70 - 130			12/14/21 10:00	12/14/21 20:44	
Method: Total BTEX - Total BTE	K Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.102		0.00397	mg/Kg			12/15/21 14:22	
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Total TPH	131		49.9	mg/Kg			12/13/21 12:32	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/14/21 23:20	
Diesel Range Organics (Over C10-C28)	131		49.9	mg/Kg		12/14/21 14:49	12/14/21 23:20	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/14/21 14:49	12/14/21 23:20	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	98		70 - 130			12/14/21 14:49	12/14/21 23:20	
o-Terphenyl	86		70 - 130			12/14/21 14:49	12/14/21 23:20	
Method: 300.0 - Anions, Ion Chro								
		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa

Eurofins Xenco, Carlsbad

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Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1699-A-1-A MS	Matrix Spike	103	99	
890-1699-A-1-B MSD	Matrix Spike Duplicate	107	104	
890-1702-1	PH01C	111	110	
LCS 880-14660/1-A	Lab Control Sample	99	105	
LCSD 880-14660/2-A	Lab Control Sample Dup	104	108	
MB 880-14660/5-A	Method Blank	117	102	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobenz	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate Recove	ry (Acceptance I
		1001	OTPH1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-1700-A-1-G MS	Matrix Spike	89	85		
890-1700-A-1-H MSD	Matrix Spike Duplicate	93	83		
890-1702-1	PH01C	98	86		
Surrogate Legend					
1CO = 1-Chlorooctane					

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

OTPH = o-Terphenyl

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-14782/2-A	Lab Control Sample	103	91	
LCSD 880-14782/3-A	Lab Control Sample Dup	120	111	
MB 880-14782/1-A	Method Blank	91	89	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Job ID: 890-1702-1 Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-14660/5-A

Lab Sample ID: LCS 880-14660/1-A

Analysis Batch: 14700

Matrix: Solid

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14660

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	
Toluene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/14/21 07:30	12/14/21 10:41	
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		12/14/21 07:30	12/14/21 10:41	

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130	12/14/21 07:30	12/14/21 10:41	1
1,4-Difluorobenzene (Surr)	102		70 - 130	12/14/21 07:30	12/14/21 10:41	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14660

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08602 mg/Kg 86 70 - 130 Toluene 0.100 0.07927 mg/Kg 79 70 - 130 0.100 78 Ethylbenzene 0.07784 mg/Kg 70 - 130 0.200 79 70 - 130 m-Xylene & p-Xylene 0.1589 mg/Kg 0.100 0.07845 70 - 130 o-Xylene mg/Kg 78

LCS LCS

Surrogate	%Recovery Qualifier	r Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-14660/2-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 14700

•	F	Prep Type: Total/NA
		Prep Batch: 14660

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	15	35
Toluene	0.100	0.09082		mg/Kg		91	70 - 130	14	35
Ethylbenzene	0.100	0.08966		mg/Kg		90	70 - 130	14	35
m-Xylene & p-Xylene	0.200	0.1825		mg/Kg		91	70 - 130	14	35
o-Xylene	0.100	0.09067		mg/Kg		91	70 - 130	14	35

LCSD LCSD

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

Lab Sample ID: 890-1699-A-1-B MSD

Matrix: Solid

Analysis Batch: 14700

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 14660

7											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0370		0.101	0.09777		mg/Kg					
Toluene	0.0642		0.101	0.09286		ma/Ka					

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1702-1 Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

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

Lab Sample ID: 890-1699-A-1-B MSD Matrix: Solid Analysis Batch: 14700							Client Sa	ample IC	Prep Type: Total/NA Prep Batch: 14660			
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Ethylbenzene	0.00482		0.101	0.09246		mg/Kg						
m-Xylene & p-Xylene	0.0144		0.201	0.1911		mg/Kg						
o-Xylene	0.00334		0.101	0.09407		mg/Kg						
	MSD	MSD										
Surrogate	%Recovery	Qualifier	Limits									
4-Bromofluorobenzene (Surr)	107		70 - 130									
1,4-Difluorobenzene (Surr)	104		70 - 130									

Lab Sample ID: 890-1699-A-1-A MS

Matrix: Solid

Analysis Batch: 14700

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

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

Lab Sample ID: MB 880-14782/1-A Matrix: Solid Analysis Batch: 14716						Client Sa	mple ID: Metho Prep Type: 1 Prep Batch	Total/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/14/21 14:49	12/14/21 20:54	1
	МВ	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			12/14/21 14:49	12/14/21 20:54	1
o-Terphenyl	89		70 - 130			12/14/21 14:49	12/14/21 20:54	1

Lab Sample ID: LCS 880-14782/2-A	Client Sample ID: Lab Control Sample
Matrix: Solid	Prep Type: Total/NA

Analysis Batch: 14716

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	966.5		mg/Kg		97	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	944.6		mg/Kg		94	70 - 130
C10-C28)							

C10-C28)			
	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 _ 130
o-Terphenyl	91		70 - 130
	1-Chlorooctane	LCS Surrogate %Recovery 1-Chlorooctane 103	LCS LCS Surrogate %Recovery Qualifier 1-Chlorooctane 103

Eurofins Xenco, Carlsbad

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14782

Lab Sample ID: LCSD 880-14782/3-A

Job ID: 890-1702-1

Client: WSP USA Inc. Project/Site: Red Bull 35 Fed1 SDG: 31402909.170

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

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14782

		Spike	LCSD	LCSD				%Rec.		RPD	
Analy	/te	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gaso	line Range Organics	1000	1015		mg/Kg		102	70 - 130	5	20	
(GRO))-C6-C10										
Diese	el Range Organics (Over	1000	1024		mg/Kg		102	70 - 130	8	20	

C10-C28)

Matrix: Solid

Analysis Batch: 14716

LCSD LCSD

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

Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 14716

Lab Sample ID: 890-1700-A-1-G MS

Prep Type: Total/NA Prep Batch: 14782

	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	997	899.8		mg/Kg		88	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U	997	917.4		mg/Kg		92	70 - 130	

MS MS

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	85		70 - 130

Lab Sample ID: 890-1700-A-1-H MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Analysis Batch: 14716 Prep Type: Total/NA Prep Batch: 14782

Sample Sample Spike MSD MSD %Rec. **RPD** Added Limit Analyte Result Qualifier Result Qualifier Unit %Rec Limits RPD Gasoline Range Organics <49.9 U 999 902.0 88 20 mg/Kg 70 - 130 0 (GRO)-C6-C10 <49.9 U 999 924.2 93 70 - 130 20 Diesel Range Organics (Over mg/Kg C10-C28)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	93		70 - 130
o-Terphenyl	83		70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14779/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac D Chloride <5.00 U 5.00 12/14/21 20:56 mg/Kg

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc. Job ID: 890-1702-1 Project/Site: Red Bull 35 Fed1

SDG: 31402909.170

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-14779/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 267.1 mg/Kg 107 90 - 110

Lab Sample ID: LCSD 880-14779/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 14808

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Limit Analyte Unit D %Rec Limits RPD Chloride 250 267.8 mg/Kg 107 90 - 110 0

Lab Sample ID: 880-9308-A-1-H MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Soluble

Analysis Batch: 14808

MS MS %Rec. Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit Limits Chloride 38.7 F1 248 323.0 F1 90 - 110 mg/Kg 115

Lab Sample ID: 880-9308-A-1-I MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 14808

		Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
	Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
l	Chloride	38.7	F1	248	318.0	F1	mg/Kg		113	90 - 110	2	20

QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

GC VOA

Prep Batch: 14660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Total/NA	Solid	5035	
MB 880-14660/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 14700

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Total/NA	Solid	8021B	14660
MB 880-14660/5-A	Method Blank	Total/NA	Solid	8021B	14660
LCS 880-14660/1-A	Lab Control Sample	Total/NA	Solid	8021B	14660
LCSD 880-14660/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	14660
890-1699-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1699-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	14660

Analysis Batch: 14874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 14652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Total/NA	Solid	8015 NM	

Analysis Batch: 14716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Total/NA	Solid	8015B NM	14782
MB 880-14782/1-A	Method Blank	Total/NA	Solid	8015B NM	14782
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	14782
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	14782
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015B NM	14782
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	14782

Prep Batch: 14782

Lab Sample ID 890-1702-1 MB 880-14782/1-A	Client Sample ID PH01C Method Blank	Prep Type Total/NA Total/NA	Matrix Solid Solid	Method 8015NM Prep 8015NM Prep	Prep Batch
LCS 880-14782/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-14782/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1700-A-1-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1700-A-1-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

HPLC/IC

Leach Batch: 14779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1 MB 880-14779/1-A	PH01C Method Blank	Soluble Soluble	Solid Solid	DI Leach DI Leach	
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	Di Leach	
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

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QC Association Summary

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

HPLC/IC (Continued)

Leach Batch: 14779 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 14808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1702-1	PH01C	Soluble	Solid	300.0	14779
MB 880-14779/1-A	Method Blank	Soluble	Solid	300.0	14779
LCS 880-14779/2-A	Lab Control Sample	Soluble	Solid	300.0	14779
LCSD 880-14779/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	14779
880-9308-A-1-H MS	Matrix Spike	Soluble	Solid	300.0	14779
880-9308-A-1-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	14779

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Lab Chronicle

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Client Sample ID: PH01C

Lab Sample ID: 890-1702-1

Matrix: Solid

Date Collected: 12/06/21 13:55 Date Received: 12/13/21 12:31

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			14660	12/14/21 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	14700	12/14/21 20:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	14874	12/15/21 14:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	14652	12/13/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			14782	12/14/21 14:49	DM	XEN MID
Total/NA	Analysis	8015B NM		1	14716	12/14/21 23:20	AJ	XEN MID
Soluble	Leach	DI Leach			14779	12/14/21 12:39	CA	XEN MID
Soluble	Analysis	300.0		10	14808	12/15/21 00:02	CH	XEN MID

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 890-1702-1

 Project/Site: Red Bull 35 Fed1
 SDG: 31402909.170

Laboratory: Eurofins Xenco, Midland

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

Authority		ogram	Identification Number	Expiration Date	
Texas	NE	NELAP T104704400-21-22		06-30-22	
The following analytes	are included in this report bu	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for	
the agency does not of	• •	are resonately to not our in	od by the governing additionty. This list his	ay include analytes for	
the agency does not of Analysis Method	• •	Matrix	Analyte	ay molade analytes for	
0 ,	fer certification.	•	, , ,		

Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed1

Job ID: 890-1702-1

SDG: 31402909.170

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

Protocol References:

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

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

Eurofins Xenco, Carlsbad

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Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Fed1

Job ID: 890-1702-1

SDG: 31402909.170

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1702-1	PH01C	Solid	12/06/21 13:55	12/13/21 12:31	5

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

Work Order No:

Reporting:Level	Major Part			6 4						55 0
REQUEST Reporting:Level II	REQUEST Reporting:Level II			4 2	123)		om o	()(x	1	" LANNA
Reporting:Level II	REQUEST Reporting:Level II	Date/Tim	Received by: (Signature)		Date/Time	ure)	Received by: (Signa	>	d: (Signature	Re quished
Manager Dan Moir		ard terms and conditions stances beyond the control reviously negotiated.		ient company to Xenco, its affi osses or expenses incurred by bmitted to Xenco, but not analy	ırchase order from c sponsibility for any l i for each sample sui	ples constitutes a valid p nd shall not assume any ru project and a charge of \$	efinquishment of sam he cost of samples ar vill be applied to each	is document and I be liable only for t charge of \$75.00 v	Notice: Signature of thi of service. Xenco will I of Xenco. A minimym	
Manager Dan Moir WSP Permian office Congany Name: XTO Energy Main Baker Work Order Cognitive WSP Permian office Congany Name: XTO Energy State State of Project: Manager Dan Moir	11 11 - 7	K Se Ag SiO2	Cd Ca Cr Co Cu Fe Pb Mg d Cr Co Cu Pb Mn Mo Ni Se	I II	PM Texas 11 PLP 6010: 8RC	<u>ω</u>	.8 / 6020: tal(s) to be analy	6010 200 od(s) and Mer	Total 200.7 / Circle Meth	
Manager: Dan Moir Bill to: if officeed by Name: Address. Address. Address. Address. Address. Address. Address. Address. 3300 North A Street Address. 3104 E Green Street Frogram: USY/PST □PR □rownfle state of Project: Program: USY/PST □PR □Prownfle state of Projec	Hobbs MM (975-9807 Egg) Priority Act (480 365-0900) Allima (A (770-449-8800) Tampa FL (813-820-2000) WWW.x8000.com MANAger (170-449-8800) Tampa FL (813-820-2000) Work Order County Manager (170 Act (480 365-090) Allima (A (770-449-8800) Tampa FL (813-820-2000) Work Order County Manager (170 Act (480 365-090) Allima (170 Act (48	; ; ;								
Manager: Dan Moir	Hobbs.NM [675-982-7550] PhoenixAZ (480 955-990) Alminis_CA (770-449-9890) Tampa,FL [81 940-20000] Work Order Copy Name. WSP Permian office							+		
Manager Dan Moir Bill to: (# definents) Adrian Baker Work Order Company Name Work Order Company Name XTO Energy State of Project: State of Project:	Manager: Dan Moir									
Manager: Dan Moir Bill to: (# difference) Adrian Baker Work Order Company Name. WIST Energy Work Order Company Name. XTO Energy Work Order Company Name. XTO Energy Work Order Company Name. XTO Energy Address: State of Project: ADAT ANALYSIS REDUEST ANALYSIS REDUEST ANALYSIS REDUEST ANALYSIS REDUEST ANALYSIS REDUEST Interproject: Interproject: Interproject: In	Manager: Dan Moir									
Manager: Dan Moir Bill to: (I different) Addrian Baker Work Order Company Name: XTO Energy XTO Energy Program: UST/PST □RP □rownfile Common UST/PST □RP □rownfile State of Project: State of Project: Caste of Project: State of Project: State of Project: Caste of Project: State of Project: Caste of Project: ADaPT Name: Fled Bull 35 Fed 1 Turn Around ANALYSIS REQUEST ANALYSIS REQUEST	Manager: Dan Moir									
Manager: Dan Moir Bill to: (If dillinent) Adrian Baker Work Order Company Name: Vivial Name: Modification Address: XTO Energy XTO Energy Address:	Manager: Dan Moir									
Manager: Dan Moir Bill to: (# different) Adrian Baker Work Order Copy Copy of the program: UST/PST	Manager: Dan Moir	Discrete			×	2	+	-	01C	PH
Manager: Dan Moir Bill to: (if different) Adrian Baker Work Order Counter Counter Flow Work Order Counter Counter Flow Work Order Counter Counter Flow Mort Order Counter Flow	Manager: Dan Moir	ample Commen	S		TPH (E	Depth			entification	Sample Id
Manager: Dan Moir Bill to: (III different) Adrian Baker Work Order County ry Name: WSP Permian office Company Name: XTO Energy Program: UST/PST □RP □rownfie s: 3300 North A Street Address: 3104 E Green Street State of Project: ate ZIP: Midland, TX 79705 Email: Elliot Lee @wsp.com. KaleuJennings@wsp.com. Carlsbad, NM, 88220 Program: UST/PST □RP □rownfie Name: Red Bull 35 Fed 1 Turn Around ANALYSIS REQUEST ANALYSIS REQUEST Number: 31402909.170 Routine □ ANALYSIS REQUEST Program: UST/PST □RP □rownfie r's Name: Elliot Lee Due Date: ANALYSIS REQUEST ANALYSIS REQUEST r's Name: Elliot Lee Due Date: Segon No ANALYSIS REQUEST r's Name: Elliot Lee Due Date: Segon No ANALYSIS REQUEST	Hobbs.NM (575-392-7550) Phoenix.AZ (480-355-0900) Allamia,GA (770-449-8800) Tampa,FL (813-820-2000) Work Order Company Name: WSP Permian office Company Name: XTO Energy XTO Energy XTO Energy XTO Energy State of Project: State of Project: State of Project: State of Project: Turn Around Rush3Q, TÅT Temp Blank: Cess No West loe: Ves No WA Correction Factor: -0 - 2 Cess	, if received by 4:30	lab		PA 80	9.	Total Container	No		Sample Custody S
Manager: Dan Moir Bill to: (Indifferent) Adrian Baker Work Order C my Name: WSP Permian office Company Name: XTO Energy Program: UST/PST □RP □rownft s: 3300 North A Street Address: 3104 E Green Street State of Project: ste ZIP: Midland, TX 79705 Email: Elliot Lee@wsp.com, Kale J.ennings@wsp.com Reporting: Level III □rownft Name: Red Bull 35 Fed 1 Turn Around ANALYSIS REQUEST Number: 31402909.170 Rush:30, TAT r's Name: Elliot Lee Due Date: PLE RECEIPT Temp Blank: (Ves) No Wet Ice: Ves) No Net Ice: Ves) No Net Ice: Ves) No No ad Intact: No No No No No No	Manager: Dan Moir	arts the day recevie	TAT sk		015) 0=80	1	Correction Facto	No	Ц	Cooler Custody Se
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Manager: Dan Moir Bill to: (It different) Adrian Baker Work Order C ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST □RP □rownfi s: 3300 North A Street Address: 3104 E Green Street State of Project: ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 88220 Reporting:Level III □ IT/U Name: Hed Bull 35 Fed 1 Turn Around ANALYSIS REQUEST Number: 31402909.170 Routine □ Rush:30, TAT Rush:30, TAT PS Name: Elliot Lee Due Date:	Manager: Dan Moir Dan Moir Bill to: (II different) Adrian Baker Adrian Baker WSP Permian office Company Name: XTO Energy XTO Energy State of Project: Reporting: Level III Program: UST/PST Reporting: Reporting: EDD ADAPT Name: Ada2999.170 Rush-30.4 Turn Around R					rib		2/3.0	3	Temperature (°C):
Manager: Dan Moir Bill to: (if different) Adrian Baker Work Order C ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST ☐RP ☐rownfi s: 3300 North A Street Address: 3104 E Green Street State of Project: ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 8B220 Reporting:Level II ☐r/U Name: Red Bull 35 Fed 1 Turn Around ANALYSIS REQUEST Number: 31402909.170 Routline ☐ ANALYSIS REQUEST Imber: Bush:30, y TAT Bush:30, y TAT Imber: Bush:30, y TAT	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allantia,GA (770-449-8800) Tampa,FL (813-620-2000) Www.xenco.com)No	Temp Blank:	EIPT	SAMPLE REC
Manager: Dan Moir Bill to: (lf different) Adrian Baker Work Order C ny Name: WSP Permian office Company Name: XTO Energy TO Energy Program: UST/PST □RP □rownfi s: 3300 North A Street Address: 3104 E Green Street State of Project: ate ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 88220 Reporting:Level II □ V/U (432) 236-3849 Email: Elliot.Lee@wsp.com, Kalei.Jennings@wsp.com ANALYSIS REQUEST Number: 31402909.170 Rush:3fty TAT ANALYSIS REQUEST	Manager: Dan Moir Bill to: (if different) Adrian Baker Work Order C Work Orde					Date:	Du	Elliot Lee		Sampler's Name:
Manager: Dan Moir Bill to: (lf different) Adrian Baker Adrian Baker Work Order C ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST ☐RP ☐rownfi s: 3300 North A Street Address: 3104 E Green Street State of Project: state 7P: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 88220 Reporting:Level III ☐ IT/U Name: Reporting:Level III ☐ Turn Around ANALYSIS REQUEST ANALYSIS REQUEST	Manager: Dan Moir Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Manager: Dan Moir Bill to: (if different) Adrian Baker Work Order C ry Name: WSP Permian office Company Name: XTO Energy Program: UST/PST □RP □rownfi s:: 3300 North A Street Address: 3104 E Green Street Program: UST/PST □RP □rownfi state of Project: State of Project: Reporting:Level III □svel III					h:30 y TAT	Rus			P.O. Number:
Manager: Dan Moir Bill to: (lf different) Adrian Baker Adrian Baker Work Order Committed ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Pag Manager: Dan Moir Bill to: (If different) Adrian Baker Work Order Comm ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST	it # NAPP21264	Inciden			tine		31402909.17		Project Number:
Manager: Dan Moir Bill to: (if different) Adrian Baker Work Order Comments ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page Manager: Dan Moir Bill to: (It different) Adrian Baker Work Order Comments ny Name: WSP Permian office Company Name: XTO Energy Program: UST/PST RP Crownfields RC s: 3300 North A Street Address: 3104 E Green Street State of Project: gte ZIP: Midland, TX 79705 City, State ZIP: Carlsbad, NM, 88220 Reporting:Level II evel III ADAPT A	ork Order Note	W			urn Around		Red Bull 35 Fe		Project Name:
Dan Moir Bill to: (It different) Adrian Baker Work Order Comments WSP Permian office Company Name: XTO Energy Program: UST/PST	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Other:			.com, Kalei.Jennings@ws	i: Elliot.Lee@wsr	Ema	3849	(432) 236-	Phone:
Dan Moir Bill to: ⟨f different⟩ Adrian Baker Work Order Comments WSP Permian office Company Name: XTO Energy Program: UST/PST ☐RP ☐rownfields ☐RC 3300 North A Street Address: 3104 E Green Street State of Project:	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Allanta,GA (770-449-8800) Tampa,FL (813-620-2000) www.xenco.com Page Dan Moir Bill to: (# different) Adrian Baker WTO Energy WTO Energy WSP Permian office Company Name: XTO Energy Program: UST/PST □RP □rownfields □RC 3300 North A Street Address: 3104 E Green Street State of Project:	JRP L[Vel IV	□evel III □T/UST 1		Carlsbad, NM, 8822	City, State ZIP:		X 79705	Midland, T	City, State ZIP:
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	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000) WWW.Xenco.com	ıts	Work Order Commer			Bill to: (if different			Dan Moir	Project Manager:

Carlsbad NM 88220

1089 N Canal St

Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

eurofins

Environment Testing

State, Zip. T**X** 79701 Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Sample Identification - Client ID (Lab ID) PH01C (890-1702-1) Project Name[.] Red Bull 35 Fed1 432-704-5440(Tel) Shipping/Receiving Client Information Possible Hazard Identification Midland 1211 W Florida Ave Eurofins Xenco Phone. 575-988-3199 Fax: 575-988-3199 Deliverable Requested | II, III IV Other (specify) elinquished by elinquished by: elinquished by mpty Kit Relinguished by Custody Seals Intact. Yes ∆ No (Sub Contract Lab Custody Seal No D Project #: 89000004 Due Date Requested 12/16/2021 Phone: Date/Time 12 14 21 Date/Time: Primary Deliverable Rank TAT Requested (days): 12/6/21 Date Mountain 13 55 8 G=grab (C=comp, Preservation Code: Type Company Company Company Matrix Solid Lab PM Kramer Jessica jessica kramer@eurofinset.com Time: Accreditations Required (See note)
NELAP - Louisiana, NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) 8015MOD_NM/8015NM_S_Prep (MOD) Full TPH × Cooler Temperature(s) °C and Other Remarks Received by Return To Client × 8015MOD_Calc 300_ORGFM_28D/DI_LEACH Chloride 8021B/5035FP_Calc (MOD) BTEX × Analysis Requested Total_BTEX_GCV × Disposal By Lab State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment 'nο Date/Time Date/Time Date/Time لر P Total Number of containers B A HCL
B NAOH
C Zn Acetate
D Nitric Acid
E NAHSO4
F MeOH
G Amchlor
H Ascorbic Acid
I loe
J Dl Water
K EDTA
L EDA COC No 890-543 1 Page Page 1 of 1 390-1702-1 Special Instructions/Note: C N \ < C I O \ D D \ D Z \ X Company Company M Hexane
V None
D AsNaO2
Na2O4S
Na2O3
Na2SO3
R Na2SC03
S H2SO4
H2SO4
H2SO4
MCAA AN CO /er: 06/08/2021

1089 N Canal St.

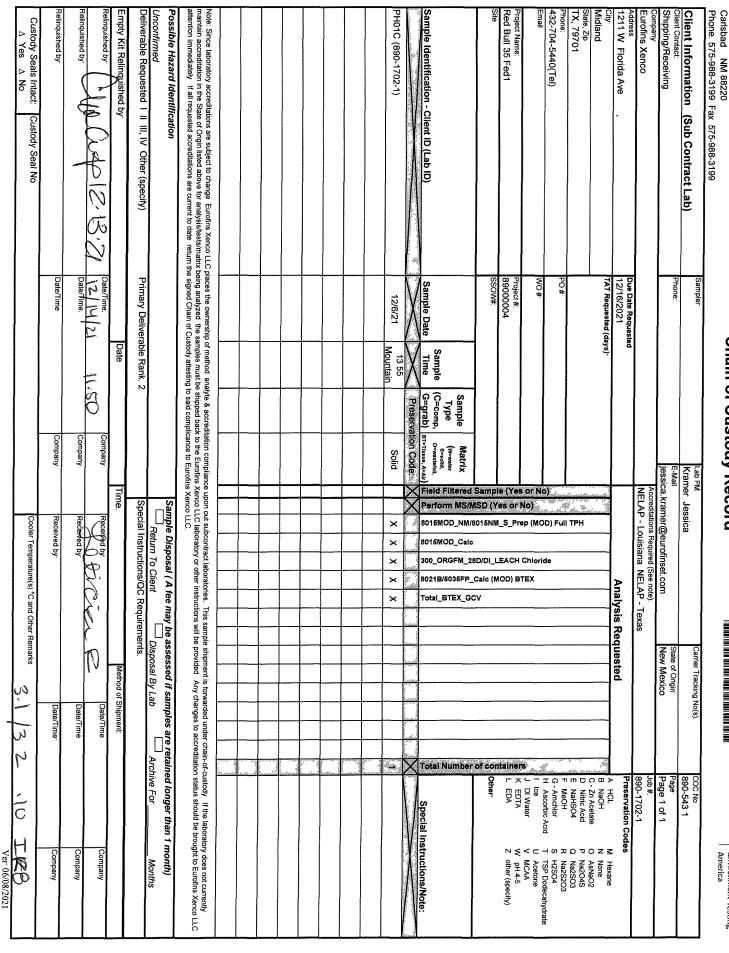
Eurofins Xenco, Carlsbad

13 14

Chain of Custody Record

🖏 eurofins

Environment Testing



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1702-1 SDG Number: 31402909.170

List Source: Eurofins Xenco, Carlsbad

Login Number: 1702 List Number: 1 Creator: Clifton, Cloe

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

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1702-1 SDG Number: 31402909.170

Login Number: 1702
List Source: Eurofins Xenco, Midland
List Number: 2
List Creation: 12/14/21 12:00 PM

Creator: Rodriguez, Leticia

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

Euronnis Aerico, Carisbau

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<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Sample Delivery Group: 32.08518, -103,5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 3/28/2022 9:27:54 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through



Visit us at:

www.eurofinsus.com/Env Released to Imaging: 9/9/2022 9:51:35 AM

Laboratory Job ID: 880-12340-1

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: Red Bull 35 Federal 001

Laboratory Job ID: 880-12340-1

SDG: 32.08518, -103,5452

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12340-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103,5452

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	
F2	MS/MSD RPD exceeds control limits	
S1-	Surrogate recovery exceeds control limits, low biased.	
U	Indicates the analyte was analyzed for but not detected.	

HPLC/IC Qualifier

U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

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) Method Detection Limit

MDL 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 **Practical Quantitation Limit PQL PRES** Presumptive

Quality Control QC

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: Red Bull 35 Federal 001

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

Job ID: 880-12340-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12340-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21733 and analytical batch 880-21907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21363 and analytical batch 880-21518 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.

Matrix: Solid

Lab Sample ID: 880-12340-1

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12340-1

Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103,5452

Client Sample ID: PH01

Date Collected: 03/10/22 10:00 Date Received: 03/11/22 11:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/17/22 13:09	03/19/22 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/17/22 13:09	03/19/22 01:58	1
1,4-Difluorobenzene (Surr)	113		70 - 130			03/17/22 13:09	03/19/22 01:58	1
- Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/21/22 12:50	1
Analyte Total TPH		Qualifier	RL 49.8	Unit mg/Kg	D	Prepared	Analyzed	Dil Fac
Total TPH	75.3		49.8	ma/Ka				
				mg/itg			03/14/22 11:58	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)		mg/Kg			03/14/22 11:58	1
Method: 8015B NM - Diesel Ran Analyte	• • •	RO) (GC) Qualifier	RL	Unit	D	Prepared	03/14/22 11:58 Analyzed	
Analyte Gasoline Range Organics	• • •	Qualifier	RL		<u>D</u>	Prepared 03/11/22 17:33		Dil Fac
Analyte Gasoline Range Organics	Result	Qualifier		Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		Qualifier U	49.8	<mark>Unit</mark> mg/Kg	<u>D</u>	03/11/22 17:33	Analyzed 03/14/22 04:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.8 75.3	Qualifier U	49.8	Unit mg/Kg mg/Kg	<u> </u>	03/11/22 17:33 03/11/22 17:33	Analyzed 03/14/22 04:14 03/14/22 04:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.8 75.3 <49.8	Qualifier U	49.8 49.8 49.8	Unit mg/Kg mg/Kg	<u>D</u>	03/11/22 17:33 03/11/22 17:33 03/11/22 17:33	Analyzed 03/14/22 04:14 03/14/22 04:14 03/14/22 04:14	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U	49.8 49.8 49.8 Limits	Unit mg/Kg mg/Kg	<u>D</u>	03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 <i>Prepared</i>	Analyzed 03/14/22 04:14 03/14/22 04:14 03/14/22 04:14 Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg mg/Kg	<u> </u>	03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 Prepared 03/11/22 17:33	Analyzed 03/14/22 04:14 03/14/22 04:14 03/14/22 04:14 Analyzed 03/14/22 04:14	Dil Face
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	49.8 49.8 49.8 Limits 70 - 130	Unit mg/Kg mg/Kg	<u>D</u>	03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 Prepared 03/11/22 17:33	Analyzed 03/14/22 04:14 03/14/22 04:14 03/14/22 04:14 Analyzed 03/14/22 04:14	Dil Face

Client Sample ID: PH01A Lab Sample ID: 880-12340-2 Date Collected: 03/10/22 10:06

Date Received: 03/11/22 11:23

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/22 13:09	03/19/22 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/17/22 13:09	03/19/22 02:19	1

Eurofins Midland

Matrix: Solid

Client Sample Results

Client: WSP USA Inc. Job ID: 880-12340-1

Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103,5452

Client Sample ID: PH01A Lab Sample ID: 880-12340-2

Date Collected: 03/10/22 10:06 Matrix: Solid Date Received: 03/11/22 11:23

Sample Depth: 3

Method: 8021B - Volatile Organic Compounds (GC) (Continued)									
Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac				
1,4-Difluorobenzene (Surr)	114	70 - 130	03/17/22 13:09	03/19/22 02:19	1				

Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/21/22 12:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)								
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Total TPH	82.7	50.0	mg/Kg			03/14/22 11:58	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 04:35	1
Diesel Range Organics (Over C10-C28)	82.7		50.0	mg/Kg		03/11/22 17:33	03/14/22 04:35	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 04:35	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	94		70 - 130			03/11/22 17:33	03/14/22 04:35	1

Method: 300.0 - Anions, Ion Chromatograp	hy - Soluble				
o-Terphenyl	104	70 - 130	03/11/22 17:33	03/14/22 04:35	1
1-Chlorooctane	94	70 - 130	03/11/22 17:33	03/14/22 04:35	1

Result Qualifier Analyte RLUnit D Prepared Analyzed Dil Fac 1530 49.5 mg/Kg 03/26/22 05:20 Chloride

Client Sample ID: PH01B Lab Sample ID: 880-12340-3 Date Collected: 03/10/22 10:15 **Matrix: Solid**

Sample Depth: 6

Analyte

Total TPH

Date Received: 03/11/22 11:23

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/22 13:09	03/19/22 02:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			03/17/22 13:09	03/19/22 02:40	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/17/22 13:09	03/19/22 02:40	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/21/22 12:50	1

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Dil Fac

Analyzed

03/14/22 11:58

RL

49.9

Unit

mg/Kg

Prepared

Result Qualifier

<49.9 U

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12340-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103,5452

Client Sample ID: PH01B Lab Sample ID: 880-12340-3

Date Collected: 03/10/22 10:15
Date Received: 03/11/22 11:23

Sample Depth: 6

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/11/22 17:33	03/14/22 04:55	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/11/22 17:33	03/14/22 04:55	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/11/22 17:33	03/14/22 04:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			03/11/22 17:33	03/14/22 04:55	1
o-Terphenyl	123		70 - 130			03/11/22 17:33	03/14/22 04:55	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

5

7

9

10

4.0

13

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12340-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103,5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Rec
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12309-A-1-K MS	Matrix Spike	96	93	
880-12309-A-1-L MSD	Matrix Spike Duplicate	105	94	
880-12340-1	PH01	104	113	
880-12340-2	PH01A	103	114	
880-12340-3	PH01B	110	102	
LCS 880-21733/1-A	Lab Control Sample	97	105	
LCSD 880-21733/2-A	Lab Control Sample Dup	100	98	
MB 880-21733/5-A	Method Blank	103	103	
Surrogate Legend				
BFB = 4-Bromofluorobenze	ne (Surr)			
DFBZ = 1,4-Difluorobenzen	ie (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12340-1	PH01	98	110	
880-12340-2	PH01A	94	104	
880-12340-3	PH01B	110	123	
890-2054-A-1-D MS	Matrix Spike	89	91	
890-2054-A-1-E MSD	Matrix Spike Duplicate	71	69 S1-	
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)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-21363/2-A	Lab Control Sample	89	94	
LCSD 880-21363/3-A	Lab Control Sample Dup	107	120	
MB 880-21363/1-A	Method Blank	99	114	
Surrogate Legend				

Released to Imaging: 9/9/2022 9:51:35 AM

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12340-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103,5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21733/5-A

Matrix: Solid

Analysis Batch: 21907

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21733

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prep	ared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/17/2	2 13:09	03/18/22 20:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/17/2	2 13:09	03/18/22 20:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21733

Lab Sample ID: LCS 880-21733/1-A Matrix: Solid

Analysis Batch: 21907

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09847		mg/Kg		98	70 - 130	
Toluene	0.100	0.09238		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.09551		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery Qua	alifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 21907

Lab Sample ID: LCSD 880-21733/2-A

Prep Type: Total/NA Prep Batch: 21733

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08554		mg/Kg		86	70 - 130	14	35	
Toluene	0.100	0.09210		mg/Kg		92	70 - 130	0	35	
Ethylbenzene	0.100	0.09813		mg/Kg		98	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2075		mg/Kg		104	70 - 130	5	35	
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	6	35	

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	100	70 - 130
1,4-Difluorobenzene (Surr)	98	70 - 130

Lab Sample ID: 880-12309-A-1-K MS

Matrix: Solid

Analysis Batch: 21907

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

Prep Batch: 21733

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.06063	F1	mg/Kg		61	70 - 130	
Toluene	<0.00200	U F1	0.100	0.06296	F1	mg/Kg		63	70 - 130	

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QC Sample Results

Client: WSP USA Inc. Job ID: 880-12340-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103,5452

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

Lab Sample ID: 880-12309-A-1-L MSD

Matrix: Solid

Analysis Batch: 21907

Lab Sample ID: 880-12309-A-1-K MS Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 21733

Sample Sample Spike MS MS Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D 0.06414 F1 Ethylbenzene <0.00200 U F1 0.100 64 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00399 0.200 0.1365 F1 mg/Kg 68 70 - 130 o-Xylene <0.00200 U 0.100 0.06952 70 70 - 130 mg/Kg

%Rec.

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21733

Analysis Batch: 21907

Matrix: Solid

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier RPD Limit Analyte Result Qualifier babbA %Rec Limits Unit 0.0998 Benzene <0.00200 UF1 0.06647 F1 mg/Kg 67 70 - 130 9 35 Toluene <0.00200 UF1 0.0998 0.06842 F1 mg/Kg 69 70 - 130 8 35 Ethylbenzene U F1 0.0998 0.06932 F1 69 70 - 130 8 35 <0.00200 mg/Kg 0.200 m-Xylene & p-Xylene < 0.00399 UF1 0.1472 mq/Kq 74 70 - 130 8 35 <0.00200 U 0.0998 0.07573 76 70 - 130 35 o-Xylene mg/Kg

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	105	70 - 130
1,4-Difluorobenzene (Surr)	94	70 - 130

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

Lab Sample ID: MB 880-21363/1-A

Matrix: Solid

Analysis Batch: 21518

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

Prep Batch: 21363

мв мв Result Qualifier RL Unit D Prepared Analyzed Dil Fac Analyte 50.0 03/11/22 08:33 <50.0 U 03/13/22 21:11 Gasoline Range Organics mg/Kg (GRO)-C6-C10 03/11/22 08:33 03/13/22 21:11 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/11/22 08:33 03/13/22 21:11 mg/Kg

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	03/11/22 08:33	03/13/22 21:11	1
o-Terphenyl	114		70 - 130	03/11/22 08:33	03/13/22 21:11	1

Lab Sample ID: LCS 880-21363/2-A

Matrix: Solid

Analysis Batch: 21518

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

Prep Batch: 21363

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits 1000 93 70 - 130 Gasoline Range Organics 925 1 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 832.3 mg/Kg 83 70 - 130 C10-C28)

Project/Site: Red Bull 35 Federal 001

Client: WSP USA Inc.

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

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

Lab Sample ID: LCS 880-21363/2-A

Matrix: Solid

Analysis Batch: 21518

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21363

LCS LCS

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: LCSD 880-21363/3-A Client Sample ID: Lab Control Sample Dup

Analysis Batch: 21518

Matrix: Solid Prep Type: Total/NA

Prep Batch: 21363

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 982.0 98 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 938.2 94 mg/Kg 70 - 13012 20 C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	107		70 - 130
o-Terphenyl	120		70 - 130

Lab Sample ID: 890-2054-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 21518

Prep Type: Total/NA

Prep Batch: 21363

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 998 866.4 mg/Kg 84 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 51.5 F1 F2 998 834.4 mg/Kg 78 70 - 130

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 89 70 - 130 o-Terphenyl 91

Lab Sample ID: 890-2054-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Analysis Batch: 21518

Matrix: Solid

Prep Type: Total/NA

Prep Batch: 21363

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U F1 F2 998 674.5 F1 F2 Gasoline Range Organics 64 70 - 130 25 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 51.5 F1 F2 998 643.9 F1 F2 mg/Kg 59 70 - 130 26 20

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

MSD MSD %Recovery Qualifier Limits 71 70 - 130 69 S1-70 - 130

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12340-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103,5452

Client Sample ID: Method Blank

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21603/1-A

Matrix: Solid

Analysis Batch: 22053

Prep Type: Soluble

Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/26/22 01:03

MB MB

Lab Sample ID: LCS 880-21603/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22053

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 239.4 mg/Kg 96 90 - 110

Lab Sample ID: LCSD 880-21603/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22053

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 241.6 mg/Kg 90 - 110

Lab Sample ID: 880-12339-A-18-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 22053

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added %Rec Result Qualifier Unit Limits Chloride 452 248 680.4 90 - 110 mg/Kg

Lab Sample ID: 880-12339-A-18-C MSD

Matrix: Solid

Analysis Batch: 22053

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 452 674.1 mg/Kg 90 90 - 110 20

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12340-1 SDG: 32.08518, -103,5452

GC VOA

Prep Batch: 21733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	5035	
880-12340-2	PH01A	Total/NA	Solid	5035	
880-12340-3	PH01B	Total/NA	Solid	5035	
MB 880-21733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	8021B	21733
880-12340-2	PH01A	Total/NA	Solid	8021B	21733
880-12340-3	PH01B	Total/NA	Solid	8021B	21733
MB 880-21733/5-A	Method Blank	Total/NA	Solid	8021B	21733
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	8021B	21733
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21733
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	21733
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21733

Analysis Batch: 22055

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	Total BTEX	
880-12340-2	PH01A	Total/NA	Solid	Total BTEX	
880-12340-3	PH01B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	8015NM Prep	
880-12340-2	PH01A	Total/NA	Solid	8015NM Prep	
880-12340-3	PH01B	Total/NA	Solid	8015NM Prep	
MB 880-21363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2054-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2054-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21518

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	8015B NM	21363
880-12340-2	PH01A	Total/NA	Solid	8015B NM	21363
880-12340-3	PH01B	Total/NA	Solid	8015B NM	21363
MB 880-21363/1-A	Method Blank	Total/NA	Solid	8015B NM	21363
LCS 880-21363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21363
LCSD 880-21363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21363
890-2054-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	21363
890-2054-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21363

Eurofins Midland

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

GC Semi VOA

Analysis Batch: 21527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Total/NA	Solid	8015 NM	
880-12340-2	PH01A	Total/NA	Solid	8015 NM	
880-12340-3	PH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21603

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Soluble	Solid	DI Leach	
880-12340-2	PH01A	Soluble	Solid	DI Leach	
880-12340-3	PH01B	Soluble	Solid	DI Leach	
MB 880-21603/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21603/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21603/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12339-A-18-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12339-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 22053

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12340-1	PH01	Soluble	Solid	300.0	21603
880-12340-2	PH01A	Soluble	Solid	300.0	21603
880-12340-3	PH01B	Soluble	Solid	300.0	21603
MB 880-21603/1-A	Method Blank	Soluble	Solid	300.0	21603
LCS 880-21603/2-A	Lab Control Sample	Soluble	Solid	300.0	21603
LCSD 880-21603/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21603
880-12339-A-18-B MS	Matrix Spike	Soluble	Solid	300.0	21603
880-12339-A-18-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	21603

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

Lab Sample ID: 880-12340-1

Matrix: Solid

Client Sample ID: PH01

Date Collected: 03/10/22 10:00 Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 01:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22055	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21527	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	21363	03/11/22 17:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21518	03/14/22 04:14	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	21603	03/15/22 08:35	CH	XEN MID
Soluble	Analysis	300.0		10			22053	03/26/22 05:11	CH	XEN MID

Client Sample ID: PH01A

Date Collected: 03/10/22 10:06

Date Received: 03/11/22 11:23

Lab Sample ID: 880-12340-2

Matrix: Solid

Dil Initial Final Batch Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 21733 Total/NA Prep 5.02 g 5 mL 03/17/22 13:09 KL XEN MID Total/NA 8021B 5 mL 03/19/22 02:19 XEN MID Analysis 1 5 mL 21907 KL Total/NA Total BTEX 22055 03/21/22 12:50 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 21527 03/14/22 11:58 XEN MID Total/NA Prep 8015NM Prep 21363 XEN MID 10.01 g 03/11/22 17:33 DM 10 mL Total/NA Analysis 8015B NM 21518 03/14/22 04:35 AJ XEN MID Soluble XEN MID Leach DI Leach 5.05 g 50 mL 21603 03/15/22 08:35 CH Soluble Analysis 300.0 10 22053 03/26/22 05:20 CH XEN MID

Client Sample ID: PH01B

Date Collected: 03/10/22 10:15 Date Received: 03/11/22 11:23

Lab Sample ID: 880-12340-3

Matrix: Solid

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 02:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22055	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21527	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21363	03/11/22 17:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21518	03/14/22 04:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21603	03/15/22 08:35	CH	XEN MID
Soluble	Analysis	300.0		1			22053	03/26/22 05:29	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12340-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103,5452

Laboratory: Eurofins Midland

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

uthority		ogram	Identification Number	Expiration Date	
Texas	NE	LAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report bu	t the laboratory is not certifi	ed by the governing authority. This list ma	v include analytes for y	
the agency does not of	' '	t the laboratory to not ocium	od by the governing additionty. The not me	ly include analytes for	
the agency does not of Analysis Method	' '	Matrix	Analyte	y molade analytes for t	
0 ,	fer certification.	•	, , ,		

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Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

8015NM Prep

DI Leach

300.0

5035

Project/Site: Red Bull 35 Federal 001

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Deionized Water Leaching Procedure

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN MID
SW846	XEN MID

SW846

ASTM

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: Red Bull 35 Federal 001

Job ID: 880-12340-1

SDG: 32.08518, -103,5452

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-12340-1	PH01	Solid	03/10/22 10:00	03/11/22 11:23	1
880-12340-2	PH01A	Solid	03/10/22 10:06	03/11/22 11:23	3
880-12340-3	PH01B	Solid	03/10/22 10:15	03/11/22 11:23	6

Project Manager

Kaleı Jennings WSP USA Inc

Bill to (if different)

Company Name

Address Company Name

3300 North A Street, Bldg 1, Unit 222

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701 Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900 WSP USA Inc Kaleı Jennings Atlanta GA (770) 449-8800 Program UST/PST PRP Brownfield RRC State of Project www xenco com **Work Order Comments** Page

Superfund

City State ZIP Phone	Midland, TX 79705 817-683-2503	05		Email k	City State ZIP Email kaleı Jennings@wsp com	s@ws	p com							Del Reg	teporting Leve(☐ Level I☐ beliverables EDD(☐	Leve		evel		PST DaP	PST/US ^[]	1 "	TRRP Other	1 '	Level 🖟	"	1
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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	ocument and relinquis	hment of samp	oles constitute	s a valid purci	nase order from	client co	mpany t	o Xenco	its affi	iates ar	ıd subco	tractor	i It ass	igns sta	ndard 1	erms aı	id conc	itions									
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 cost of service. 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.	liable only for the cost arge of \$75.00 will be a	of samples and oplied to each I	d shall not ass project and a	sume any resp charge of \$5 fo	onsibility for an	y losses submitted	or expen	ses incu	irred by ot analy	the clie zed. Th	nt if sucl	losses will be	are due	ed unless	rcumstances beyond the control ess previously negotiated.	es beyo	and the	contro									
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Work Order No: _

Revised Date 101419 Rev 2019 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12340-1

SDG Number: 32.08518, -103,5452

List Source: Eurofins Midland

Login Number: 12340 List Number: 1

Creator: Rodriguez, Leticia

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

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Released to Imaging: 9/9/2022 9:51:35 AM

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Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12341-1

Laboratory Sample Delivery Group: 32.08518, -103.5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

MAMER

Authorized for release by: 3/21/2022 12:47:18 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

Review your project results through

IOIOIACCESS

Have a Question?



Visit us at:

www.eurofinsus.com/Env

Released to Imaging: 9/9/2022 9:51:35 AM

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

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

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Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Laboratory Job ID: 880-12341-1

SDG: 32.08518, -103.5452

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Method Summary	17
Sample Summary	18
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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Qualifiers

GC VOA Qualifier

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

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

DL, RA, RE, IN

DLC

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

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

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)

Decision Level 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 **Practical Quantitation Limit PQL**

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Job ID: 880-12341-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12341-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21733 and analytical batch 880-21907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21363 and analytical batch 880-21518 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.

Matrix: Solid

Lab Sample ID: 880-12341-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Client Sample ID: PH02 Date Collected: 03/10/22 10:49 Date Received: 03/11/22 11:23

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/17/22 13:09	03/19/22 03:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		70 - 130			03/17/22 13:09	03/19/22 03:00	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/17/22 13:09	03/19/22 03:00	1
- Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/21/22 12:50	1
	•		DI	Unit	_	Dronored	Anglyzod	Dil Eos
Method: 8015 NM - Diesel Range	•		DI	l lmi4	_	Duamanad	Amalumad	Dil Faa
Analyte Total TPH	•	Qualifier	RL 49.8	Unitmg/Kg	<u>D</u>	Prepared	Analyzed 03/14/22 11:58	Dil Fac
Analyte Total TPH	Result 147	Qualifier			<u>D</u>	Prepared		
Analyte Total TPH	Result 147 ge Organics (Di	Qualifier			<u>D</u>	Prepared Prepared		1
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result 147 ge Organics (Di	Qualifier RO) (GC) Qualifier	49.8	mg/Kg			03/14/22 11:58	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 147 ge Organics (DI Result	Qualifier RO) (GC) Qualifier	49.8	mg/Kg		Prepared	03/14/22 11:58 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang	Result 147 ge Organics (Di Result <49.8	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8	mg/Kg Unit mg/Kg		Prepared 03/11/22 17:33	03/14/22 11:58 Analyzed 03/14/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result 147 ge Organics (DI Result <49.8	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/11/22 17:33	03/14/22 11:58 Analyzed 03/14/22 05:17 03/14/22 05:17	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result 147	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8 49.8 49.8	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/11/22 17:33 03/11/22 17:33	03/14/22 11:58 Analyzed 03/14/22 05:17 03/14/22 05:17	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result 147	Qualifier RO) (GC) Qualifier U	49.8 RL 49.8 49.8 49.8 Limits	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 Prepared	03/14/22 11:58 Analyzed 03/14/22 05:17 03/14/22 05:17 03/14/22 05:17 Analyzed	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result 147	Qualifier RO) (GC) Qualifier U Qualifier	49.8 RL 49.8 49.8 49.8 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 Prepared 03/11/22 17:33	03/14/22 11:58 Analyzed 03/14/22 05:17 03/14/22 05:17 Analyzed 03/14/22 05:17	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result 147	Qualifier RO) (GC) Qualifier U Qualifier	49.8 RL 49.8 49.8 49.8 Limits 70 - 130	mg/Kg Unit mg/Kg mg/Kg		Prepared 03/11/22 17:33 03/11/22 17:33 03/11/22 17:33 Prepared 03/11/22 17:33	03/14/22 11:58 Analyzed 03/14/22 05:17 03/14/22 05:17 Analyzed 03/14/22 05:17	1 Dil Fac 1

Client Sample ID: PH02A Lab Sample ID: 880-12341-2 Date Collected: 03/10/22 10:55

Date Received: 03/11/22 11:23

Sample Depth: - 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/17/22 13:09	03/19/22 03:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/17/22 13:09	03/19/22 03:21	1

Eurofins Midland

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12341-1

SDG: 32.08518, -103.5452

Client Sample ID: PH02A Lab Sample ID: 880-12341-2 Date Collected: 03/10/22 10:55

Matrix: Solid

Date Received: 03/11/22 11:23 Sample Depth: - 3

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	115		70 - 130	03/17/22 13:09	03/19/22 03:21	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397 U	0.00397	ma/Ka			03/21/22 12:50	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC)
Mctilod. 00 to Mili - Dieser Range Organies (Dito) (

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Total TPH	<50.0 U	50.0	ma/Ka		·	03/14/22 11:58	1	

		_			
Method: 8015B	NM - Diesel	Range Org	ranics ('DROL	GC
motriou. ou rob	THE DIGGOI	itunge or	garnoo (D. (O)	(–

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:38	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:38	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:38	1
Currente	0/	Ovelifier	l imita			Duamanad	Amalumad	Dil 5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	03/11/22 17:3	3 03/14/22 05:38	1
o-Terphenyl	115		70 - 130	03/11/22 17:3	3 03/14/22 05:38	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	384	4.97	mg/Kg		_	03/17/22 17:21	1

Client Sample ID: PH02B Lab Sample ID: 880-12341-3

Date Collected: 03/10/22 10:58 Date Received: 03/11/22 11:23

Sample Depth: - 4

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

mounda. our ib volutile orga	ino compoundo ((33)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/17/22 13:09	03/19/22 03:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/17/22 13:09	03/19/22 03:42	1
1,4-Difluorobenzene (Surr)	107		70 - 130			03/17/22 13:09	03/19/22 03:42	1

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00397	U	0.00397	ma/Ka			03/21/22 12:50	1

Analyte	•	•	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH			<50.0	U	50.0	mg/Kg			03/14/22 11:58	1

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Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12341-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Client Sample ID: PH02B Lab Sample ID: 880-12341-3

Date Collected: 03/10/22 10:58

Date Received: 03/11/22 11:23

Matrix: Solid

Sample Depth: - 4

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:59	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:59	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/11/22 17:33	03/14/22 05:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	100		70 - 130			03/11/22 17:33	03/14/22 05:59	1
o-Terphenyl	110		70 - 130			03/11/22 17:33	03/14/22 05:59	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	80.3		4.96	mg/Kg			03/17/22 17:47	

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Surrogate Summary

 Client: WSP USA Inc.
 Job ID: 880-12341-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12309-A-1-K MS	Matrix Spike	96	93	
880-12309-A-1-L MSD	Matrix Spike Duplicate	105	94	
880-12341-1	PH02	99	110	
880-12341-2	PH02A	100	115	
880-12341-3	PH02B	105	107	
LCS 880-21733/1-A	Lab Control Sample	97	105	
LCSD 880-21733/2-A	Lab Control Sample Dup	100	98	
MB 880-21733/5-A	Method Blank	103	103	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				the Miles and
-				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12341-1	PH02	103	115	
880-12341-2	PH02A	102	115	
880-12341-3	PH02B	100	110	
890-2054-A-1-D MS	Matrix Spike	89	91	
890-2054-A-1-E MSD	Matrix Spike Duplicate	71	69 S1-	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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

OTPH = o-Terphenyl

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Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-21363/2-A	Lab Control Sample	89	94	
LCSD 880-21363/3-A	Lab Control Sample Dup	107	120	
MB 880-21363/1-A	Method Blank	99	114	
Surrogate Legend				
1CO = 1-Chlorooctane				

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Client: WSP USA Inc. Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21733/5-A

Lab Sample ID: LCS 880-21733/1-A

Matrix: Solid Analysis Batch: 21907 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21733

	МВ	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/17/22 1	3:09	03/18/22 20:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/17/22 1	3:09	03/18/22 20:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21733

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09847 mg/Kg 98 70 - 130 Toluene 0.100 0.09238 mg/Kg 92 70 - 130 0.100 0.09551 96 Ethylbenzene mg/Kg 70 - 130 0.200 0.1977 70 - 130 m-Xylene & p-Xylene mg/Kg 99 0.100 0.09676 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Qu	ualifier	Limits
4-Bromofluorobenzene (Surr)	97		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Matrix: Solid

Analysis Batch: 21907

Analysis Batch: 21907

Lab Sample ID: LCSD 880-21733/2-A

Prep Type: Total/NA Prep Batch: 21733

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08554		mg/Kg		86	70 - 130	14	35
Toluene	0.100	0.09210		mg/Kg		92	70 - 130	0	35
Ethylbenzene	0.100	0.09813		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2075		mg/Kg		104	70 - 130	5	35
o-Xylene	0.100	0.1022		mg/Kg		102	70 - 130	6	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 880-12309-A-1-K MS

Matrix: Solid

Analysis Batch: 21907

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

Prep Batch: 21733

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U F1	0.100	0.06063	F1	mg/Kg		61	70 - 130	
Toluene	<0.00200	U F1	0.100	0.06296	F1	mg/Kg		63	70 - 130	

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Prep Batch: 21733

Prep Type: Total/NA

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: 880-12309-A-1-K MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 21907

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits D Ethylbenzene <0.00200 U F1 0.100 0.06414 F1 64 70 - 130 mg/Kg m-Xylene & p-Xylene < 0.00399 U F1 0.200 0.1365 F1 mg/Kg 68 70 - 130 <0.00200 U 0.100 0.06952 70 70 - 130 o-Xylene mg/Kg

MS MS Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 96 1,4-Difluorobenzene (Surr) 93 70 - 130

Lab Sample ID: 880-12309-A-1-L MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 21907									Prep	Batch:	21733
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0998	0.06647	F1	mg/Kg		67	70 - 130	9	35
Toluene	<0.00200	U F1	0.0998	0.06842	F1	mg/Kg		69	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.0998	0.06932	F1	mg/Kg		69	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1472		mg/Kg		74	70 - 130	8	35
o-Xylene	<0.00200	U	0.0998	0.07573		mg/Kg		76	70 - 130	9	35

MSD MSD Qualifier Surrogate Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 105 1,4-Difluorobenzene (Surr) 94 70 - 130

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

Lab Sample ID: MB 880-21363/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 21518

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/11/22 08:33	03/13/22 21:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/11/22 08:33	03/13/22 21:11	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/11/22 08:33	03/13/22 21:11	1

MB MB %Recovery Dil Fac Qualifier Limits Prepared Analyzed Surrogate 70 - 130 03/11/22 08:33 1-Chlorooctane 99 03/13/22 21:11 114 70 - 130 03/11/22 08:33 03/13/22 21:11 o-Terphenyl

Lab Sample ID: LCS 880-21363/2-A Client Sample ID: Lab Control Sample

Analysis Batch: 21518

Matrix: Solid

Spike LCS LCS %Rec. Added Result Qualifier Unit %Rec Limits

Analyte 1000 93 70 - 130 925 1 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 832.3 mg/Kg 83 70 - 130 C10-C28)

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Prep Type: Total/NA

Prep Batch: 21363

Prep Batch: 21363

C10-C28)

o-Terphenyl

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

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

Lab Sample ID: LCS 880-21363/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 21518** Prep Batch: 21363

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 89 70 - 130 o-Terphenyl 94 70 - 130

Lab Sample ID: LCSD 880-21363/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 21518** Prep Batch: 21363

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit 1000 982.0 98 70 - 1306 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 938.2 94 mg/Kg 70 - 13012 20

LCSD LCSD Surrogate %Recovery Qualifier Limits 107 70 - 130 1-Chlorooctane 120 70 - 130 o-Terphenyl

Lab Sample ID: 890-2054-A-1-D MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 21518** Prep Batch: 21363

Sample Sample MS MS Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U F1 F2 998 866.4 mg/Kg 84 70 - 130 (GRO)-C6-C10

Diesel Range Organics (Over 51.5 F1 F2 998 834.4 mg/Kg 78 70 - 130 C10-C28)

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

91

Lab Sample ID: 890-2054-A-1-E MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 21518** Prep Batch: 21363

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U F1 F2 998 674.5 F1 F2 Gasoline Range Organics <49.9 64 70 - 130 25 20 mg/Kg (GRO)-C6-C10

Diesel Range Organics (Over 51.5 F1 F2 998 643.9 F1 F2 mg/Kg 59 70 - 130 26 C10-C28)

MSD MSD %Recovery Qualifier Surrogate Limits 1-Chlorooctane 71 70 - 130 69 S1-70 - 130 o-Terphenyl

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Client: WSP USA Inc. Job ID: 880-12341-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Prep Type: Soluble

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21722/1-A

Matrix: Solid

Lab Sample ID: LCS 880-21722/2-A

Analysis Batch: 21830

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Dil Fac Analyte Result Qualifier RL Unit D Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 03/17/22 16:01

Client Sample ID: Lab Control Sample

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Matrix: Solid Prep Type: Soluble

Analysis Batch: 21830

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 227.6 mg/Kg 91 90 - 110

Lab Sample ID: LCSD 880-21722/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21830

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 250.2 20 mg/Kg 100 90 - 110

Lab Sample ID: 890-2077-A-1-F MS Client Sample ID: Matrix Spike **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 21830

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits Chloride 9.16 250 259.0 100 90 - 110 mg/Kg

Lab Sample ID: 890-2077-A-1-G MSD

Matrix: Solid

Analysis Batch: 21830

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 9.16 258.5 mg/Kg 100 90 - 110 0 20

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12341-1

SDG: 32.08518, -103.5452

GC VOA

Prep Batch: 21733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Total/NA	Solid	5035	
880-12341-2	PH02A	Total/NA	Solid	5035	
880-12341-3	PH02B	Total/NA	Solid	5035	
MB 880-21733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Total/NA	Solid	8021B	21733
880-12341-2	PH02A	Total/NA	Solid	8021B	21733
880-12341-3	PH02B	Total/NA	Solid	8021B	21733
MB 880-21733/5-A	Method Blank	Total/NA	Solid	8021B	21733
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	8021B	21733
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21733
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	21733
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21733

Analysis Batch: 22056

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Total/NA	Solid	Total BTEX	
880-12341-2	PH02A	Total/NA	Solid	Total BTEX	
880-12341-3	PH02B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Total/NA	Solid	8015NM Prep	
880-12341-2	PH02A	Total/NA	Solid	8015NM Prep	
880-12341-3	PH02B	Total/NA	Solid	8015NM Prep	
MB 880-21363/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21363/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2054-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2054-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21518

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Total/NA	Solid	8015B NM	21363
880-12341-2	PH02A	Total/NA	Solid	8015B NM	21363
880-12341-3	PH02B	Total/NA	Solid	8015B NM	21363
MB 880-21363/1-A	Method Blank	Total/NA	Solid	8015B NM	21363
LCS 880-21363/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21363
LCSD 880-21363/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21363
890-2054-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	21363
890-2054-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21363

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12341-1

SDG: 32.08518, -103.5452

GC Semi VOA

Analysis Batch: 21528

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
80-12341-1	PH02	Total/NA	Solid	8015 NM	
80-12341-2	PH02A	Total/NA	Solid	8015 NM	
80-12341-3	PH02B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 21722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Soluble	Solid	DI Leach	
880-12341-2	PH02A	Soluble	Solid	DI Leach	
880-12341-3	PH02B	Soluble	Solid	DI Leach	
MB 880-21722/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-2077-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2077-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 21830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12341-1	PH02	Soluble	Solid	300.0	21722
880-12341-2	PH02A	Soluble	Solid	300.0	21722
880-12341-3	PH02B	Soluble	Solid	300.0	21722
MB 880-21722/1-A	Method Blank	Soluble	Solid	300.0	21722
LCS 880-21722/2-A	Lab Control Sample	Soluble	Solid	300.0	21722
LCSD 880-21722/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	21722
890-2077-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	21722
890-2077-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	21722

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12341-1 SDG: 32.08518, -103.5452

Lab Sample ID: 880-12341-1

Matrix: Solid

Client Sample ID: PH02 Date Collected: 03/10/22 10:49

Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 03:00	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22056	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21528	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21363	03/11/22 17:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21518	03/14/22 05:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	21722	03/16/22 12:10	CH	XEN MID
Soluble	Analysis	300.0		1			21830	03/17/22 17:12	CH	XEN MID

Client Sample ID: PH02A

Date Collected: 03/10/22 10:55

Date Received: 03/11/22 11:23

Lab Sample ID: 880-12341-2

Matrix: Solid

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 21733 Total/NA Prep 5.04 g 5 mL 03/17/22 13:09 KL XEN MID 8021B Total/NA 5 mL 03/19/22 03:21 KL Analysis 1 5 mL 21907 XEN MID Total/NA Total BTEX 22056 03/21/22 12:50 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 21528 03/14/22 11:58 XEN MID Total/NA 8015NM Prep 21363 XEN MID Prep 10.00 g 03/11/22 17:33 DM 10 mL Total/NA Analysis 8015B NM 21518 03/14/22 05:38 AJ XEN MID Soluble XEN MID Leach DI Leach 5.03 g 50 mL 21722 03/16/22 12:10 CH Soluble Analysis 300.0 1 21830 03/17/22 17:21 CH XEN MID

Client Sample ID: PH02B

Date Collected: 03/10/22 10:58

Date Received: 03/11/22 11:23

Lab Sample ID: 880-12341-3

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 03:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22056	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21528	03/14/22 11:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21363	03/11/22 17:33	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21518	03/14/22 05:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	21722	03/16/22 12:10	СН	XEN MID
Soluble	Analysis	300.0		1			21830	03/17/22 17:47	CH	XEN MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12341-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date	
Texas		ELAP	T104704400-21-22	06-30-22	
The following analytes the agency does not of		ut the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
0045 1114		Solid	Total TPH		
8015 NM		Juliu	IOIAI IPH		

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Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12341-1

SDG: 32.08518, -103.5452

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: Red Bull 35 Federal 001

Job ID: 880-12341-1

SDG: 32.08518, -103.5452

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	
880-12341-1	PH02	Solid	03/10/22 10:49	03/11/22 11:23	-
880-12341-2	PH02A	Solid	03/10/22 10:55	03/11/22 11:23	
880-12341-3	PH02B	Solid	03/10/22 10:58	03/11/22 11:23	- 4

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Project Manager

Kaleı Jennings WSP USA Inc

Bill to (if different) Company Name Address

> Kalei Jennings WSP USA Inc

Program UST/PST□ PRP□ Brownfield RRC□

Superfund []

www xenco com

Page_

Work Order Comments

State of Project

Atlanta GA (770) 449-8800

Address Company Name

3300 North A Street, Bldg 1, Unit 222

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

None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn TAT starts the day received by the lab if received by 4 30pm Sample Comments Sample Comments Sample Comments Sample Comments 1880-12341 Chain of Custody Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn Gill U 1631 / 245.1 / 7470 / 7471 Hg Berms and conditions se beyond the control usity negotiated. Received by (Signature) Date/Time	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) Malli Green Gree	4	(11)23	-					
Ag SiO2 N 1631	due to circumstances beyond reced unless previously negot gnature) Rece			-					ω,
Ag SiO2 N	due to circumstances beyond proced unless previously negot gnature)	2	22111	CU	DE F	*		Green	Madrie (
Ag SiO2 N 1631	due to circumstances beyond	Relinquished by (Signature)	Date/Time		ure)	Received by: (Signature)	() Re	y (Signature)	Relinquished by (Signature)
Pg SiO2 N 1631	assions standard terms and	voluce "signature or fins 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.	ompany to Xenco, its and or expenses incurred lend to Xenco, but not and	n client c ny losses submitte	rchase order fro sponsibility for a for each sample	es constitutes a valid pu shall not assume any re roject and a charge of \$	shment of sample and applied to each p	document and relinqualities that is also because the cost arge of \$75.00 will be	of xervice. Xenco will be of Xenco. A minimum ch
Chain of Custoo	Mo Ni Se Ag Ti U	Cd Cr Co Cu Pb Mn Mo	Sb As Ba Be (CRA	TCLP / SPLP 6010 8RCRA	d TCLP / SP	to be analyze	Circle Method(s) and Metal(s) to be analyzed	Circle Method
None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn TAT starts the day received by the lab if received by 4 30pm Sample Comments	e Pb Mg Mn Mo Ni K	Cd Ca Cr Co Cu Fe	Sb As Ba Be B	<u>→</u>	M Texas 11 A	8R	020:	3010 200.8 / 6020:	Total 200.7 / 6010
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None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn TAT starts the day received by the lab if received by 4 30pm Sample Comments			XXX	_	_	3-10-12 10:49	-£ 7s		LH0.7
None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn TAT starts the day recevied by the lab if received by 4 30pm			BTEX TPH (E	Numb	Depth	Sampled Sampled	×	ntification	Sample Identification
None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn TAT starts the day receving by the			PA 8	er of		ntainer	1	als Yes No	Sample Custody Seals
None NO NaOH Na MeOH Me Zn Acetate+ NaOH Zn			015)	Со	-	Correction Factor	多	Yes	Cooler Custody Seals
None NO NaOH Na MeOH Me				ntai	d 0	1	No No	(re	Received Intact:
None NO			00)	ners	rib	Thermometer ID	2.2	23/	Temperature (°C)
None NO				/Pre	No (Se)	(No) Wet Ice	Temp Blank Yes		SAMPLE RECEIPT
				ser)			PO#:
r r				vati	Due Date 5 DAY	Due	Hadlie Green		Sampler's Name
H2S04 H2				ve C		52 Rush	32 08518 -103 5452	32 08	Project Location
HNO3 HN				ode	ine X	Routine	31402909 170	J.	Project Number
Preservative Codes	QUEST	ANALYSIS REQUE			Turn Around		Red Bull 35 Federal 001	Red Bu	Project Name
ADaPT Other	Deliverables EDD		sp com	gs@ws	Email kaleı Jennings@wsp com	Email		817-683-2503	Phone
Level IP PST/USP TRRP Level IV	Reporting Lev			P	City State ZIP		705	Midland TX 79705	City State ZIP



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12342-1

Laboratory Sample Delivery Group: 32.08518, -103.5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 3/21/2022 12:47:20 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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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.

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

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Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Laboratory Job ID: 880-12342-1

SDG: 32.08518, -103.5452

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Qualifiers

GC VOA

Qualifier **Qualifier Description**

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

GC Semi VOA

Qualifier **Qualifier Description**

*1 LCS/LCSD RPD exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

Glossary

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

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

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

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

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

DLC Decision Level Concentration (Radiochemistry)

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

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

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit PRES Presumptive

QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Job ID: 880-12342-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12342-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21733 and analytical batch 880-21907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

Method 8015MOD_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-21661 and analytical batch 880-21675 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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

HPLC/IC

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

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12342-1

SDG: 32.08518, -103.5452

Lab Sample ID: 880-12342-1

Matrix: Solid

Client Sample ID: PH03

Date Collected: 03/10/22 11:40 Date Received: 03/11/22 11:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:03	
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:03	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:03	
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/19/22 04:03	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:03	
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/19/22 04:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	95		70 - 130			03/17/22 13:09	03/19/22 04:03	
1,4-Difluorobenzene (Surr)	106		70 - 130			03/17/22 13:09	03/19/22 04:03	
Method: Total BTEX - Total BTI	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total BTEX	<0.00400	U	0.00400	mg/Kg			03/21/22 12:50	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	5070		50.0	mg/Kg			03/15/22 10:32	
Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/15/22 15:59	03/16/22 13:03	
Diesel Range Organics (Over C10-C28)	4280		50.0	mg/Kg		03/15/22 15:59	03/16/22 13:03	
Oll Range Organics (Over C28-C36)	785		50.0	mg/Kg		03/15/22 15:59	03/16/22 13:03	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane	107		70 - 130			03/15/22 15:59	03/16/22 13:03	
o-Terphenyl	107		70 - 130			03/15/22 15:59	03/16/22 13:03	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F

Client Sample ID: PH03A Lab Sample ID: 880-12342-2

Date Collected: 03/10/22 11:43 Matrix: Solid Date Received: 03/11/22 11:23

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 04:23	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 04:23	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 04:23	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/17/22 13:09	03/19/22 04:23	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/17/22 13:09	03/19/22 04:23	1
Xylenes, Total	< 0.00396	U	0.00396	mg/Kg		03/17/22 13:09	03/19/22 04:23	1

Matrix: Solid

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Lab Sample ID: 880-12342-2

Client Sample ID: PH03A

Date Collected: 03/10/22 11:43 Date Received: 03/11/22 11:23

Sample Depth: 2

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90	70 - 130	03/17/22 13:09	03/19/22 04:23	1
1,4-Difluorobenzene (Surr)	111	70 - 130	03/17/22 13:09	03/19/22 04:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	mg/Kg			03/21/22 12:50	1

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

Analyte	Result Qu	ıalifier RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	mg/Kg			03/15/22 10:32	1

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

	, g (, (,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 19:05	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 19:05	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 19:05	1
Surrogate	%Pacayary	Qualifier	l imite			Propared	Analyzod	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130	03/14/22 08:	03/14/22 19:05	1
o-Terphenyl	106		70 - 130	03/14/22 08:	47 03/14/22 19:05	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	380	4.98	mg/Kg			03/18/22 12:28	1

Client Sample ID: PH03B Lab Sample ID: 880-12342-3

Date Collected: 03/10/22 11:48 Date Received: 03/11/22 11:23

Sample Depth: 4

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

	,						
Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
<0.00399	U	0.00399	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
<0.00399	U	0.00399	mg/Kg		03/17/22 13:09	03/19/22 04:44	1
%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
102		70 - 130			03/17/22 13:09	03/19/22 04:44	1
107		70 - 130			03/17/22 13:09	03/19/22 04:44	1
	Result <0.00200 <0.00200 <0.00200 <0.00399 <0.00399 <0.00399 ##Recovery 102		Result Qualifier RL <0.00200	Result Qualifier RL Unit <0.00200	Result Qualifier RL Unit D <0.00200	Result Qualifier RL Unit D Prepared <0.00200	Result Qualifier RL Unit D Prepared Analyzed <0.00200

Method:	Total RTF)	(- Total RTFX	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			03/21/22 12:50	1

Method: 8015 NM - Diesel F	Range Organics (DRO) (GC)
motification of the latest the	turigo organico (bito) (oo)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			03/15/22 10:32	1

Eurofins Midland

Matrix: Solid

Released to Imaging: 9/9/2022 9:51:35 AM

Matrix: Solid

Lab Sample ID: 880-12342-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12342-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Client Sample ID: PH03B

Date Collected: 03/10/22 11:48 Date Received: 03/11/22 11:23

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		03/14/22 08:47	03/14/22 19:26	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		03/14/22 08:47	03/14/22 19:26	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/14/22 08:47	03/14/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	87		70 - 130			03/14/22 08:47	03/14/22 19:26	1
o-Terphenyl	93		70 - 130			03/14/22 08:47	03/14/22 19:26	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	112		4.95	mg/Kg			03/17/22 18:14	

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Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Re
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12309-A-1-K MS	Matrix Spike	96	93	
880-12309-A-1-L MSD	Matrix Spike Duplicate	105	94	
880-12342-1	PH03	95	106	
880-12342-2	PH03A	90	111	
880-12342-3	PH03B	102	107	
LCS 880-21733/1-A	Lab Control Sample	97	105	
LCSD 880-21733/2-A	Lab Control Sample Dup	100	98	
MB 880-21733/5-A	Method Blank	103	103	
Surrogate Legend				
BFB = 4-Bromofluorobenzen	e (Surr)			
DFBZ = 1,4-Difluorobenzene	(Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12342-1	PH03	107	107	
880-12342-2	PH03A	91	106	
880-12342-3	PH03B	87	93	
880-12428-A-2-B MS	Matrix Spike	99	86	
880-12428-A-2-C MSD	Matrix Spike Duplicate	106	98	
890-2059-A-1-F MS	Matrix Spike	83	86	
890-2059-A-1-G MSD	Matrix Spike Duplicate	82	85	
LCS 880-21661/2-A	Lab Control Sample	128	130	
LCSD 880-21661/3-A	Lab Control Sample Dup	103	106	
MB 880-21661/1-A	Method Blank	120	126	

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)
		1CO2	OTPH2	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
LCS 880-21476/2-A	Lab Control Sample	96	107	
LCSD 880-21476/3-A	Lab Control Sample Dup	102	116	
MB 880-21476/1-A	Method Blank	98	117	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21733/5-A

Lab Sample ID: LCS 880-21733/1-A

Matrix: Solid Analysis Batch: 21907

мв мв

Cli	ent San	ıple ID	: Meth	od E	Blank
		Dron	Typo	Tot	al/NLA

ep Type: Total/NA

Prep Batch: 21733

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/17/22 1	3:09	03/18/22 20:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/17/22 1	3:09	03/18/22 20:43	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21733

Matrix: Solid Analysis Batch: 21907 Spike LCS LCS

	•							
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09847		mg/Kg		98	70 - 130	
Toluene	0.100	0.09238		mg/Kg		92	70 - 130	
Ethylbenzene	0.100	0.09551		mg/Kg		96	70 - 130	
m-Xylene & p-Xylene	0.200	0.1977		mg/Kg		99	70 - 130	
o-Xylene	0.100	0.09676		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	97	70 - 130
1,4-Difluorobenzene (Surr)	105	70 - 130

Lab Sample ID: LCSD 880-21733/2-A **Client Sample ID: Lab Control Sample Dup** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 21907

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.08554		mg/Kg		86	70 - 130	14	35	
Toluene	0.100	0.09210		mg/Kg		92	70 - 130	0	35	
Ethylbenzene	0.100	0.09813		mg/Kg		98	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2075		mg/Kg		104	70 - 130	5	35	
o-Xvlene	0.100	0 1022		ma/Ka		102	70 - 130	6	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1.4-Difluorobenzene (Surr)	98		70 ₋ 130

Matrix: Solid

Analysis Batch: 21907

Lab Sample ID: 880-12309-A-1-K MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Prep Batch: 21733

Prep Batch: 21733

MS MS Sample Sample Spike %Rec. Result Qualifier Added Result Qualifier Analyte Unit %Rec Limits <0.00200 U F1 0.100 0.06063 F1 61 70 - 130 Benzene mg/Kg Toluene <0.00200 UF1 0.100 0.06296 F1 mg/Kg 63 70 - 130

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: 880-12309-A-1-K MS

Matrix: Solid

Analysis Batch: 21907

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21733

	Sample	Sample	эріке	INIO	IVIS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00200	U F1	0.100	0.06414	F1	mg/Kg		64	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1365	F1	mg/Kg		68	70 - 130	
o-Xylene	<0.00200	U	0.100	0.06952		mg/Kg		70	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	93	70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21733

Lab Sample ID: 880-12309-A-1-L MSD **Matrix: Solid**

Analysis Batch: 21907

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U F1	0.0998	0.06647	F1	mg/Kg		67	70 - 130	9	35
Toluene	<0.00200	U F1	0.0998	0.06842	F1	mg/Kg		69	70 - 130	8	35
Ethylbenzene	<0.00200	U F1	0.0998	0.06932	F1	mg/Kg		69	70 - 130	8	35
m-Xylene & p-Xylene	<0.00399	U F1	0.200	0.1472		mg/Kg		74	70 - 130	8	35
o-Xylene	<0.00200	U	0.0998	0.07573		mg/Kg		76	70 - 130	9	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

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

Lab Sample ID: MB 880-21476/1-A

Matrix: Solid

Analysis Batch: 21460

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

Prep Batch: 21476

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 11:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 11:00	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 11:00	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130	03/14/22 08:-	03/14/22 11:00	1
o-Terphenyl	117		70 - 130	03/14/22 08:-	7 03/14/22 11:00	1

Lab Sample ID: LCS 880-21476/2-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Lab Control Sample	•
Prep Type: Total/NA	١.

Prep Batch: 21476

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	976.8		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	925.3		mg/Kg		93	70 - 130	
C10-C28)								

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Released to Imaging: 9/9/2022 9:51:35 AM

Project/Site: Red Bull 35 Federal 001

Client: WSP USA Inc.

Job ID: 880-12342-1 SDG: 32.08518, -103.5452

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

LCS LCS

Lab Sample ID: LCS 880-21476/2-A **Client Sample ID: Lab Control Sample**

Matrix: Solid

Analysis Batch: 21460

Prep Type: Total/NA

Prep Batch: 21476

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 96 70 - 130 o-Terphenyl 107 70 - 130

Lab Sample ID: LCSD 880-21476/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 21460

Prep Type: Total/NA

Prep Batch: 21476

%Rec. RPD Limits RPD Limit

Spike LCSD LCSD Analyte Added Result Qualifier Unit D %Rec 1000 964.6 96 70 - 13020 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 898.5 90 mg/Kg 70 - 1303 20 C10-C28)

LCSD LCSD

Surrogate %Recovery Qualifier Limits 102 70 - 130 1-Chlorooctane 116 70 - 130 o-Terphenyl

Lab Sample ID: 890-2059-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 21460

Prep Type: Total/NA

Prep Batch: 21476

Sample Sample Spike Added Analyte Result Qualifier Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 942.6 mg/Kg 92 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 879.2 mg/Kg 85 70 - 130

MS MS

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 83 70 - 130 o-Terphenyl 86

Lab Sample ID: 890-2059-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 21460

Prep Type: Total/NA

Prep Batch: 21476

Sample Sample MSD MSD RPD Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit U 998 927.2 91 Gasoline Range Organics <49.8 mg/Kg 70 - 130 2 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 865.3 mg/Kg 84 70 - 130 2 20

C10-C28)

MSD MSD

%Recovery Qualifier Surrogate Limits 1-Chlorooctane 82 70 - 130 85 70 - 130 o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

MR MR

Lab Sample ID: MB 880-21661/1-A

Lab Sample ID: LCS 880-21661/2-A

Matrix: Solid

Analysis Batch: 21675

Matrix: Solid Analysis Batch: 21675 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21661

	IND	IND						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/15/22 15:59	03/16/22 11:01	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/15/22 15:59	03/16/22 11:01	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/15/22 15:59	03/16/22 11:01	1
	440	440						
	IVIB	MB						
•	A/ =	-						

Surrogate	%Recovery Qu	ualifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	120	70 - 130	03/15/22 15:59	03/16/22 11:01	1
o-Terphenyl	126	70 - 130	03/15/22 15:59	03/16/22 11:01	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21661

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit D %Rec Limits 1020 Gasoline Range Organics 1000 mg/Kg 102 70 - 130 (GRO)-C6-C10 1000 1216 Diesel Range Organics (Over mg/Kg 122 70 - 130 C10-C28)

LCS LCS

l	Surrogate	%Recovery	Qualifier	Limits
l	1-Chlorooctane	128		70 - 130
l	o-Terphenyl	130		70 - 130

Lab Sample ID: LCSD 880-21661/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid

Analysis Batch: 21675

Prep Type: Total/NA

Prep Batch: 21661

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	822.8	*1	mg/Kg		82	70 - 130	21	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1037		mg/Kg		104	70 - 130	16	20
C10 C28)									

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	106	70 - 130

Lab Sample ID: 880-12428-A-2-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 21675

Prep Type: Total/NA

Prep Batch: 21661

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.8	U *1	998	1019		mg/Kg		102	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.8	U	998	942.4		mg/Kg		94	70 - 130	
C10-C28)										

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: 880-12428-A-2-B MS Client Sample ID: Matrix Spike Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 21675

			Prep Batch: 21661
MS	MS		
%Recovery	Qualifier	Limits	

Surrogate 1-Chlorooctane 99 70 - 130 o-Terphenyl 86 70 - 130

Lab Sample ID: 880-12428-A-2-C MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 21675									Prep	Batch:	21661
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U *1	999	1005		mg/Kg		101	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	999	1070		mg/Kg		107	70 - 130	13	20
C10-C28)											

MSD MSD Surrogate %Recovery Qualifier Limits 106 70 - 130 1-Chlorooctane 98 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-21722/1-A Client Sample ID: Method Blank **Prep Type: Soluble**

Matrix: Solid

Analysis Batch: 21830

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			03/17/22 16:01	1

Lab Sample ID: LCS 880-21722/2-A Client Sample ID: Lab Control Sample **Matrix: Solid**

Analysis Batch: 21830

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	227.6	-	ma/Ka		91	90 - 110	

Lab Sample ID: LCSD 880-21722/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid**

Analysis Batch: 21830

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	250.2		mg/Kg	_	100	90 - 110	9	20

Lab Sample ID: 880-12339-A-8-B MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21830

Analysis Batch. 21000	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	1610		1240	2883		mg/Kg		103	90 - 110	

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Prep Type: Total/NA

Prep Type: Soluble

Prep Type: Soluble

Client: WSP USA Inc. Job ID: 880-12342-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-12339-A-8-C MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 21830

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1610		1240	2889		mg/Kg		103	90 - 110	0	20

Lab Sample ID: 890-2077-A-1-F MS Client Sample ID: Matrix Spike **Matrix: Solid**

Prep Type: Soluble

Analysis Batch: 21830

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier Analyte Unit D %Rec Limits Chloride 9.16 250 259.0 mg/Kg 100 90 - 110

Lab Sample ID: 890-2077-A-1-G MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Soluble

Analysis Batch: 21830

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Analyte Added Result Qualifier Unit Limits **RPD** Limit Chloride 9.16 250 258.5 100 90 - 110 20 mg/Kg

QC Association Summary

Client: WSP USA Inc.
Project/Site: Red Bull 35 Federal 001

Job ID: 880-12342-1 SDG: 32.08518, -103.5452

GC VOA

Prep Batch: 21733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	5035	
880-12342-2	PH03A	Total/NA	Solid	5035	
880-12342-3	PH03B	Total/NA	Solid	5035	
MB 880-21733/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	5035	
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	8021B	21733
880-12342-2	PH03A	Total/NA	Solid	8021B	21733
880-12342-3	PH03B	Total/NA	Solid	8021B	21733
MB 880-21733/5-A	Method Blank	Total/NA	Solid	8021B	21733
LCS 880-21733/1-A	Lab Control Sample	Total/NA	Solid	8021B	21733
LCSD 880-21733/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21733
880-12309-A-1-K MS	Matrix Spike	Total/NA	Solid	8021B	21733
880-12309-A-1-L MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21733

Analysis Batch: 22057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	Total BTEX	
880-12342-2	PH03A	Total/NA	Solid	Total BTEX	
880-12342-3	РН03В	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 21460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-2	PH03A	Total/NA	Solid	8015B NM	21476
880-12342-3	PH03B	Total/NA	Solid	8015B NM	21476
MB 880-21476/1-A	Method Blank	Total/NA	Solid	8015B NM	21476
LCS 880-21476/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21476
LCSD 880-21476/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21476
890-2059-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	21476
890-2059-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21476

Prep Batch: 21476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-2	PH03A	Total/NA	Solid	8015NM Prep	
880-12342-3	PH03B	Total/NA	Solid	8015NM Prep	
MB 880-21476/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21476/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21476/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2059-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2059-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21629

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	8015 NM	

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QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12342-1

SDG: 32.08518, -103.5452

GC Semi VOA (Continued)

Analysis Batch: 21629 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-2	PH03A	Total/NA	Solid	8015 NM	
880-12342-3	PH03B	Total/NA	Solid	8015 NM	

Prep Batch: 21661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	8015NM Prep	
MB 880-21661/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21661/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21661/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12428-A-2-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12428-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Total/NA	Solid	8015B NM	21661
MB 880-21661/1-A	880-21661/1-A Method Blank	Total/NA	Solid	8015B NM	21661
		Total/NA	Solid	8015B NM	21661
LCSD 880-21661/3-A	8 880-21661/1-A Method Blank S 880-21661/2-A Lab Control Sample SD 880-21661/3-A Lab Control Sample Dup	Total/NA	Solid	8015B NM	21661
880-12428-A-2-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21661
880-12428-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21661

HPLC/IC

Leach Batch: 21722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
880-12342-1	PH03	Soluble	Solid	DI Leach	_
880-12342-2	PH03A	Soluble	Solid	DI Leach	
880-12342-3	PH03B	Soluble	Solid	DI Leach	
MB 880-21722/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-21722/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-21722/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-12339-A-8-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-12339-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-2077-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-2077-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 21830

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12342-1	PH03	Soluble	Solid	300.0	21722
880-12342-2	PH03A	Soluble	Solid	300.0	21722
880-12342-3	PH03B	Soluble	Solid	300.0	21722
MB 880-21722/1-A	Method Blank	Soluble	Solid	300.0	21722
LCS 880-21722/2-A	Lab Control Sample	Soluble	Solid	300.0	21722
LCSD 880-21722/3-A	0-12342-3 PH03B B 880-21722/1-A Method Blank CS 880-21722/2-A Lab Control Sample CSD 880-21722/3-A Lab Control Sample Dup 0-12339-A-8-B MS Matrix Spike	Soluble	Solid	300.0	21722
880-12339-A-8-B MS	Matrix Spike	Soluble	Solid	300.0	21722
880-12339-A-8-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	21722
890-2077-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	21722
890-2077-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	21722

Project/Site: Red Bull 35 Federal 001

Client Sample ID: PH03

Lab Sample ID: 880-12342-1

03/18/22 12:19 CH

Matrix: Solid

Date Collected: 03/10/22 11:40 Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 04:03	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22057	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21629	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21661	03/15/22 15:59	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21675	03/16/22 13:03	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	21722	03/16/22 12:10	СН	XEN MID

Lab Sample ID: 880-12342-2 Client Sample ID: PH03A

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Date Collected: 03/10/22 11:43 **Matrix: Solid**

21830

Date Received: 03/11/22 11:23

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	21733	03/17/22 13:09	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 04:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22057	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21629	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21476	03/14/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21460	03/14/22 19:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	21722	03/16/22 12:10	CH	XEN MID
Soluble	Analysis	300.0		1			21830	03/18/22 12:28	CH	XEN MI

Client Sample ID: PH03B Lab Sample ID: 880-12342-3 Date Collected: 03/10/22 11:48

Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	21733	03/17/22 13:09	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 04:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22057	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21629	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21476	03/14/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21460	03/14/22 19:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	21722	03/16/22 12:10	CH	XEN MID
Soluble	Analysis	300.0		1			21830	03/17/22 18:14	CH	XEN MID

Laboratory References:

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

Eurofins Midland

Matrix: Solid

XEN MID

Accreditation/Certification Summary

 Client: WSP USA Inc.
 Job ID: 880-12342-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Laboratory: Eurofins Midland

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

Authority	Pro	ogram	Identification Number	Expiration Date
Texas		ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bu	t the laboratory is not certifi	ed by the governing authority. This list ma	av include analytes for v
the agency does not of	fer certification.	,	ou by the governming dutiestry.	ay molado analytoo lor v
the agency does not of Analysis Method	fer certification. Prep Method	Matrix	Analyte	y moduc analytics for v
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Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12342-1

SDG: 32.08518, -103.5452

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: Red Bull 35 Federal 001

Job ID: 880-12342-1

SDG: 32.08518, -103.5452

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dept
880-12342-1	PH03	Solid	03/10/22 11:40	03/11/22 11:23	1
880-12342-2	PH03A	Solid	03/10/22 11:43	03/11/22 11:23	2
880-12342-3	PH03B	Solid	03/10/22 11:48	03/11/22 11:23	4

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Work Order No:

Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock TX (806) 794-1296

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701

Hobbs NM (575) 392 7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900

City State ZIP Project Manager Company Name 3300 North A Street Bldg 1, Unit 222 Kaleı Jennings Midland, TX 79705 WSP USA Inc Address Bill to (if different) City State ZIP Company Name WSP USA Inc Kaleı Jennings Atlanta GA (770) 449-8800 Reporting Level IIP PST/USP TRRP Level II Program UST/PST☐ PRP☐ BrownfieldS☐ RRC☐ State of Project www xenco com **Work Order Comments** Page Superfund []

Madia Green	Tellinquisited by (Signature)	Relifiquistied by (Signature)	Jaliana instant 5: (0:2524:150)	require Signature of this document and reinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns the contractors is a second to 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 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.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				рнозв	PHO3A	PH03	Sample Identification		Cooler Custody Seals Yes	Received Intact:	Temperature (°C) つっつ	SAMPLE RECEIPT	PO#	Sampler's Name		Project Number	Project Name Red	Phone 817-683-2503	
		2,) Received	requishment of samples cons cost of samples and shall no be applied to each project an	200.8 / 6020: 8F Metal(s) to be analyzed				*		SL 3-10-22	Matrix Sampled	NA	No (N/A) Correction Factor		5/2.2	Temp Blank. Yes No	,	Hadlie Green	32 08518, -103 5452	31402909 170	Red Bull 35 Federal 001)3	
		0120	Received by: (Signature)	titutes a valid purchase order f ot assume any responsibility fo nd a charge of \$5 for each sam	8RCRA 13PPM Texas 11 AI TCLP / SPLP 6010 8RCRA				1):40 H	11:43 2	1 SP:11	Time Depth	ainers	Factor:	TRR	Thermometer ID	Wet Ice (Yes) No		Due Date 5 DAY	Rush [Routine 🔀	Turn Around	Email kaleı jennings@wsp com	City City
	71/65	2/11/00 2	Date/Time Rel	rom client company to Xenco, its affiliates and company to Xenco, its affiliates and company to Xenco, but not analyzed. To submitted to Xenco, but not analyzed.	11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe P 3RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mc				4 4 4		X	Numbe BTEX (I TPH (EI	EPA ()=80 (15)	21)					/e Co	ode		ngs@wsp com	F-11
			Relinquished by: (Signature)	and subcontractors. It assigns standar ient if such losses are due to circumst hese terms will be enforced unless pre	<u> </u>																	ANALYSIS REQUEST	Deliverables	F
			Received by: (Signature)	gns standard terms and conditions to circumstances beyond the control dunless previously negotiated.	Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Ni Se Ag TI U 1631/245.1		Chair of Custody	880-12342 Chain of Custs 1		+													ables EDD (☐) ADaPT□	
			e) Date/Time		02 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 Hg					77.		Sample Comments	lab if received by 4.30pm	TAT stade the decree in the state of the sta	Zn Acetate+ NaOH Zn	MeOH Me	NaOH Na	None NO	HCL HL	H2S04 H2	HNO3 HN	Preservative Codes	Other	



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12343-1

Laboratory Sample Delivery Group: 32.081518, -103.5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 3/29/2022 9:07:33 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Released to Imaging: 9/9/2022 9:51:35 AM

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

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

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 Client: WSP USA Inc.
 Laboratory Job ID: 880-12343-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.081518, -103.5452

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.081518, -103.5452

Qualifiers

GC VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

U

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

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)

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

NC Not Calculated

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

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive **Quality Control** QC

Relative Error Ratio (Radiochemistry) **RER**

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12343-1

SDG: 32.081518, -103.5452

Job ID: 880-12343-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12343-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

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

GC Semi VOA

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

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

Matrix: Solid

Lab Sample ID: 880-12343-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Client Sample ID: PH04

Date Collected: 03/10/22 13:10 Date Received: 03/11/22 11:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/23/22 13:50	03/24/22 01:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			03/23/22 13:50	03/24/22 01:58	1
1,4-Difluorobenzene (Surr)	109		70 - 130			03/23/22 13:50	03/24/22 01:58	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			03/22/22 16:47	1
Method: 8015 NM - Diesel Range			DI		n	Propaged	Analyzod	Dil Eac
Method: 8015 NM - Diesel Range			DI.		D	Drawayad	Analysis	Dil Faa
		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/15/22 10:32	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH	Result <49.9	Qualifier U		Unit	<u>D</u>	Prepared		
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang	Result <49.9 ge Organics (Di	Qualifier U RO) (GC)	49.9	Unit mg/Kg		· ·	03/15/22 10:32	1
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier	49.9	Unit mg/Kg	<u>D</u>	Prepared	03/15/22 10:32 Analyzed	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics	Result <49.9 ge Organics (Di	Qualifier U RO) (GC) Qualifier	49.9	Unit mg/Kg		· ·	03/15/22 10:32	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Rang Analyte	Result <49.9 ge Organics (Di Result	Qualifier U RO) (GC) Qualifier U	49.9	Unit mg/Kg		Prepared	03/15/22 10:32 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D) Result <49.9 49.9	Qualifier U RO) (GC) Qualifier U	49.9 RL 49.9	Unit mg/Kg Unit mg/Kg		Prepared 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/14/22 08:47 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47 03/14/22 19:47	1 Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/14/22 08:47 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47 03/14/22 19:47	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/14/22 08:47 03/14/22 08:47 03/14/22 08:47 Prepared	03/15/22 10:32 Analyzed 03/14/22 19:47 03/14/22 19:47 03/14/22 19:47 Analyzed	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/14/22 08:47 03/14/22 08:47 03/14/22 08:47 Prepared 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47 03/14/22 19:47 Analyzed 03/14/22 19:47	Dil Fac
Method: 8015 NM - Diesel Range Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result <49.9	Qualifier U RO) (GC) Qualifier U U	49.9 RL 49.9 49.9 49.9 Limits 70 - 130	Unit mg/Kg Unit mg/Kg mg/Kg		Prepared 03/14/22 08:47 03/14/22 08:47 03/14/22 08:47 Prepared 03/14/22 08:47	03/15/22 10:32 Analyzed 03/14/22 19:47 03/14/22 19:47 Analyzed 03/14/22 19:47	Dil Fac 1

Client Sample ID: PH04A

Date Collected: 03/10/22 13:15

Date Received: 03/11/22 11:23

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		03/23/22 13:50	03/24/22 02:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/23/22 13:50	03/24/22 02:19	

Eurofins Midland

Lab Sample ID: 880-12343-2

Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-12343-2

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Client Sample ID: PH04A

Date Collected: 03/10/22 13:15 Date Received: 03/11/22 11:23

Sample Depth: 3

Method: 8021B - Volatile Organic Compo	ounds (GC)	(Continued)
motification to a gaine compa	Julius (33)	(Continuou,

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1.4-Difluorobenzene (Surr)	108	70 - 130	03/23/22 13:50	03/24/22 02:19	1

ı				
ı	Method:	Total RTFX	: - Total BTEX	Calculation
ı	mictilou.	TOTAL DIE	- IOLAI DIEA	Oulculation

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403 U	0.00403	ma/Ka			03/22/22 16:47	1

Mothod: 2015 NM	Diccol Pango	Organice	(DPO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			03/15/22 10:32	1

Method: 8015B	NM - Diesel	Range Ore	anice l	(DRO)	(GC)
Methou. ou isb	IAIN - DIESEI	Range Org	janics i	(DRU)	(GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		03/14/22 08:47	03/14/22 20:07	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/14/22 08:47	03/14/22 20:07	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/22 08:47	03/14/22 20:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil F
1-Chlorooctane	88		70 - 130	03/14/22 08:47	03/14/22 20:07	
o-Terphenyl	104		70 - 130	03/14/22 08:47	03/14/22 20:07	

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	808	9.82	mg/Kg		03/26/22 22:57	03/27/22 17:16	1

Lab Sample ID: 880-12343-3 Client Sample ID: PH04B Matrix: Solid

Date Collected: 03/10/22 13:18 Date Received: 03/11/22 11:23

Sample Depth: 4

Method: 8021B -	Volatile Organ	ic Compounds	s (GC)
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motification could be seen as a seen		,						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/18/22 16:00	03/21/22 16:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/18/22 16:00	03/21/22 16:37	1
1,4-Difluorobenzene (Surr)	118		70 - 130			03/18/22 16:00	03/21/22 16:37	1

Mothod:	Total RT	EY - Tota	I DTEY	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	ma/Ka			03/22/22 16:47	1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/15/22 10:32	1

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12343-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.081518, -103.5452

Client Sample ID: PH04B Lab Sample ID: 880-12343-3

Date Collected: 03/10/22 13:18 Matrix: Solid
Date Received: 03/11/22 11:23

Sample Depth: 4

Method: 8015B NM - Diesel Rang	je Organics (Di	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 20:28	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 20:28	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:47	03/14/22 20:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130			03/14/22 08:47	03/14/22 20:28	
o-Terphenyl	100		70 - 130			03/14/22 08:47	03/14/22 20:28	1
- Method: 300.0 - Anions, Ion Chro	matography							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	368		9.84	mg/Kg		03/26/22 22:57	03/27/22 17:51	1

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

-				Percent Surrogate
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12325-A-4-J MS	Matrix Spike	101	99	
880-12325-A-4-K MSD	Matrix Spike Duplicate	106	90	
880-12343-1	PH04	105	109	
880-12343-2	PH04A	104	108	
880-12343-3	PH04B	107	118	
890-2098-A-1-O MS	Matrix Spike	101	110	
890-2098-A-1-P MSD	Matrix Spike Duplicate	101	111	
LCS 880-21817/1-A	Lab Control Sample	92	103	
LCS 880-22141/1-A	Lab Control Sample	103	110	
LCSD 880-21817/2-A	Lab Control Sample Dup	102	108	
LCSD 880-22141/2-A	Lab Control Sample Dup	101	110	
MB 880-21817/5-A	Method Blank	107	100	
MB 880-21854/5-B	Method Blank	103	104	
MB 880-22141/5-A	Method Blank	103	104	
Surrogate Legend				
BFB = 4-Bromofluoroben	zene (Surr)			
DFBZ = 1,4-Difluorobenz	ene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12343-1	PH04	93	106	
880-12343-2	PH04A	88	104	
880-12343-3	PH04B	91	100	
890-2059-A-1-F MS	Matrix Spike	83	86	
890-2059-A-1-G MSD	Matrix Spike Duplicate	82	85	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

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

Matrix: Solid Prep Type: Total/NA

MB 880-21476/1-A Method Blank 98 117 Surrogate Legend	Lab Sample ID LCS 880-21476/2-A LCSD 880-21476/3-A	Client Sample ID Lab Control Sample Lab Control Sample Dup	1CO2 (70-130) 96 102	OTPH2 (70-130) 107 116	Percent Surrogate Recovery (Acceptance Limits)
	MB 880-21476/1-A Surrogate Legend	Method Blank	98	117	

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21817/5-A

Matrix: Solid Analysis Batch: 21979 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21817

	мв	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/18/22 16:00	03/21/22 13:50	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/18/22 16	6:00 03/21/22 13:5	50 1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/18/22 16	5:00 03/21/22 13:5	50 1

Lab Sample ID: LCS 880-21817/1-A

Matrix: Solid

Analysis Batch: 21979

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21817

	Бріке	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09138		mg/Kg		91	70 - 130	
Toluene	0.100	0.08468		mg/Kg		85	70 - 130	
Ethylbenzene	0.100	0.08831		mg/Kg		88	70 - 130	
m-Xylene & p-Xylene	0.200	0.1854		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09262		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery (Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-21817/2-A

Matrix: Solid

Analysis Batch: 21979

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 21817

LCSD LCSD RPD Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits Limit Benzene 0.100 0.09682 mg/Kg 97 70 - 130 6 35 Toluene 0.100 0.08844 mg/Kg 88 70 - 130 35 Ethylbenzene 0.100 0.09875 mg/Kg 99 70 - 130 11 35 0.200 0.2008 m-Xylene & p-Xylene mg/Kg 100 70 - 130 35 0.100 0.1002 100 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1.4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-12325-A-4-J MS

Matrix: Solid

Analysis Batch: 21979

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

Prep Batch: 21817

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0990	0.1063		mg/Kg		107	70 - 130	
Toluene	<0.00198	U	0.0990	0.09861		mg/Kg		100	70 - 130	

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3/29/2022

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

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

Lab Sample ID: 880-12325-A-4-J MS

Lab Sample ID: 880-12325-A-4-K MSD

Matrix: Solid

Analysis Batch: 21979

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21817

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Ethylbenzene <0.00198 U 0.0990 0.1009 102 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00396 0.198 0.2149 mg/Kg 108 70 - 130 0.0990 0.00526 0.1071 103 70 - 130 o-Xylene mg/Kg

MS MS

Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 101 1,4-Difluorobenzene (Surr) 70 - 130 99

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21817

Analysis Batch: 21979

Matrix: Solid

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier RPD Limit Analyte Added Result Qualifier Unit %Rec Limits Benzene <0.00198 U 0.0996 0.09278 mg/Kg 93 70 - 130 14 35 Toluene <0.00198 0.0996 0.1022 mg/Kg 103 70 - 130 4 Ethylbenzene <0.00198 0.0996 0.1122 113 70 - 130 11 U mg/Kg 0.199 m-Xylene & p-Xylene < 0.00396 0.2449 mg/Kg 122 70 - 130 13 0.00526 0.0996 0.1206 70 - 130 o-Xylene mg/Kg 116 12

35 35 35

MSD MSD

Surrogate Qualifier Limits %Recovery 70 - 130 4-Bromofluorobenzene (Surr) 106 1,4-Difluorobenzene (Surr) 70 - 130 90

Lab Sample ID: MB 880-21854/5-B

Matrix: Solid

Analysis Batch: 22183

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

Prep Batch: 21854

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/22 07:30	03/23/22 11:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/22 07:30	03/23/22 11:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/22 07:30	03/23/22 11:59	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/23/22 07:30	03/23/22 11:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/23/22 07:30	03/23/22 11:59	1

Lab Sample ID: MB 880-22141/5-A

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22141

мв мв

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg	_	03/23/22 13:50	03/23/22 22:53	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/23/22 13:50	03/23/22 22:53	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/23/22 13:50	03/23/22 22:53	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/23/22 13:50	03/23/22 22:53	1

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

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

Lab Sample ID: MB 880-22141/5-A

Matrix: Solid

o-Xylene

Matrix: Solid

Analysis Batch: 22183

Client	Sample	ID:	Method	Blank

Prep Type: Total/NA

Prep Batch: 22141

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/23/22 13:50	03/23/22 22:53	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/23/22 13:50	03/23/22 22:53	1

MD MD

MR MR

	m.b	W.D				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/23/22 13:50	03/23/22 22:53	1
1,4-Difluorobenzene (Surr)	104		70 - 130	03/23/22 13:50	03/23/22 22:53	1

Client Sample ID: Lab Control Sample

70 - 130

Lab Sample ID: LCS 880-22141/1-A **Matrix: Solid**

Prep Type: Total/NA

Prep Batch: 22141

Analysis Batch: 22183 LCS LCS %Rec. Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09514 mg/Kg 95 70 - 130 Toluene 0.100 0.09412 mg/Kg 94 70 - 130 0.100 0.09619 96 Ethylbenzene mg/Kg 70 - 130 m-Xylene & p-Xylene 0.200 0.1977 mg/Kg 99 70 - 130

0.1012

mg/Kg

0.100

LCS LCS

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

Lab Sample ID: LCSD 880-22141/2-A

Client Sample ID: Lab Control Sample Dup

101

Prep Type: Total/NA

Prep Batch: 22141

Analysis Batch: 22183 LCSD LCSD %Rec. Spike RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit 0.09001 Benzene 0.100 mg/Kg 90 70 - 130 6 35 Toluene 0.100 0.08892 mg/Kg 89 70 - 130 6 35 Ethylbenzene 0.100 0.09086 mg/Kg 91 70 - 130 6 35 m-Xylene & p-Xylene 0.200 0.1872 mg/Kg 94 70 - 130 5 35 o-Xylene 0.100 0.09392 mg/Kg 70 - 130

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	101	70 _ 130
1.4-Difluorobenzene (Surr)	110	70 - 130

Lab Sample ID: 890-2098-A-1-O MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 22183** Prep Batch: 22141

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.100	0.08985		mg/Kg		89	70 - 130	
Toluene	<0.00199	U	0.100	0.08664		mg/Kg		85	70 - 130	
Ethylbenzene	<0.00199	U	0.100	0.08545		mg/Kg		85	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1746		mg/Kg		86	70 - 130	
o-Xylene	<0.00199	U	0.100	0.08938		mg/Kg		89	70 - 130	

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Released to Imaging: 9/9/2022 9:51:35 AM

Project/Site: Red Bull 35 Federal 001

Lab Sample ID: 890-2098-A-1-P MSD

Client: WSP USA Inc.

Job ID: 880-12343-1

SDG: 32.081518, -103.5452

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

Lab Sample ID: 890-2098-A-1-O MS

Matrix: Solid

Analysis Batch: 22183

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22141

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

Client Sample ID: Matrix Spike Duplicate

Prep Batch: 22141

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 22183** Sample Sample Spike MSD MSD %Rec. RPD

Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit U 0.0990 0.09469 95 70 - 1305 35 Benzene < 0.00199 mg/Kg Toluene <0.00199 U 0.0990 0.09404 mg/Kg 94 70 - 130 35 8 <0.00199 U 0.0990 0.09629 mg/Kg 97 70 - 130 12 35 Ethylbenzene m-Xylene & p-Xylene <0.00398 U 0.198 0.1984 mg/Kg 99 70 - 130 13 35 o-Xylene <0.00199 U 0.0990 0.1001 mg/Kg 101 70 - 130 35 11

MSD MSD

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

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

Lab Sample ID: MB 880-21476/1-A

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21476

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 mg/Kg 03/14/22 08:47 03/14/22 11:00 (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/14/22 08:47 03/14/22 11:00 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 03/14/22 08:47 03/14/22 11:00 mg/Kg

MB MB

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 98 70 130 03/14/22 08:47 03/14/22 11:00 o-Terphenyl 117 03/14/22 08:47 03/14/22 11:00 70 - 130

Lab Sample ID: LCS 880-21476/2-A

Released to Imaging: 9/9/2022 9:51:35 AM

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21476

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits 1000 976.8 98 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 925.3 mg/Kg 93 70 - 130

C10-C28)

LCS LCS Qualifier Surrogate %Recovery Limits 1-Chlorooctane 96 70 - 130 107 o-Terphenyl 70 - 130

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

LCSD LCSD

964.6

898 5

Result Qualifier

mg/Kg

Spike

Added

1000

1000

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

Lab Sample ID: LCSD 880-21476/3-A

Matrix: Solid

Analysis Batch: 21460

Gasoline Range Organics

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 21476

3

RPD RPD Limit Unit %Rec Limits mg/Kg 96 70 - 130 20

70 - 130

90

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Analyte

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	116		70 - 130

Lab Sample ID: 890-2059-A-1-F MS

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21476 %Rec.

Spike MS MS Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits <49.8 U 998 942.6 92 70 - 130 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 879.2 mg/Kg 85 70 - 130 C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	83		70 - 130
o-Terphenyl	86		70 - 130

Lab Sample ID: 890-2059-A-1-G MSD

Matrix: Solid

Analysis Batch: 21460

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 21476

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	927.2		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	<49.8	U	998	865.3		mg/Kg		84	70 - 130	2	20

	11.05		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	85		70 - 130

MSD MSD

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46539/28-A

Matrix: Solid

Analysis Batch: 46528

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

Prep Batch: 46539

MB MB Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <10.0 U 10.0 03/26/22 22:57 03/27/22 13:07 mg/Kg

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20

Lab Sample ID: 880-12338-A-3-C MS

QC Sample Results

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.081518, -103.5452

Client Sample ID: Matrix Spike

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 860-46539/29-A					Client	Sample	ID: Lab Co	ntroi Sample
Matrix: Solid							Prep Ty	/pe: Total/NA
Analysis Batch: 46528							Prep	Batch: 46539
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	100	95.01		mg/Kg		95	80 - 120	

Lab Sample ID: LCSD 860-46539/30-A Matrix: Solid				Clien	t San	nple ID:	Lab Contro Prep 1	I Sampl	
Analysis Batch: 46528								Batch:	
•	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	100	96.44		mg/Kg		96	80 - 120	1	20

Matrix: Solid									Prep	Type: Total/NA
Analysis Batch: 46528									Prep	Batch: 46539
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	458		100	666.8	4	mg/Kg		208	80 - 120	

Lab Sample ID: 880-12338-A-3-D MSD						Client Sa	mple ID): Matrix Sp	ike Dur	licate
Matrix: Solid							•	Prep T	ype: To	tal/NA
Analysis Batch: 46528								Prep	Batch:	46539
Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride 458		102	683.2	4	mg/Kg		221	80 - 120	2	20

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12343-1 SDG: 32.081518, -103.5452

GC VOA

Prep Batch: 21817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-3	PH04B	Total/NA	Solid	5035	
MB 880-21817/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21817/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21817/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12325-A-4-J MS	Matrix Spike	Total/NA	Solid	5035	
880-12325-A-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Prep Batch: 21854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21854/5-B	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 21979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-3	PH04B	Total/NA	Solid	8021B	21817
MB 880-21817/5-A	Method Blank	Total/NA	Solid	8021B	21817
LCS 880-21817/1-A	Lab Control Sample	Total/NA	Solid	8021B	21817
LCSD 880-21817/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21817
880-12325-A-4-J MS	Matrix Spike	Total/NA	Solid	8021B	21817
880-12325-A-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21817

Prep Batch: 22141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	5035	
880-12343-2	PH04A	Total/NA	Solid	5035	
MB 880-22141/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22141/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22141/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-2098-A-1-O MS	Matrix Spike	Total/NA	Solid	5035	
890-2098-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22171

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	Total BTEX	
880-12343-2	PH04A	Total/NA	Solid	Total BTEX	
880-12343-3	PH04B	Total/NA	Solid	Total BTEX	

Analysis Batch: 22183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	8021B	22141
880-12343-2	PH04A	Total/NA	Solid	8021B	22141
MB 880-21854/5-B	Method Blank	Total/NA	Solid	8021B	21854
MB 880-22141/5-A	Method Blank	Total/NA	Solid	8021B	22141
LCS 880-22141/1-A	Lab Control Sample	Total/NA	Solid	8021B	22141
LCSD 880-22141/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22141
890-2098-A-1-O MS	Matrix Spike	Total/NA	Solid	8021B	22141
890-2098-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22141

Eurofins Midland

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QC Association Summary

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

GC Semi VOA

Analysis Batch: 21460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	8015B NM	21476
880-12343-2	PH04A	Total/NA	Solid	8015B NM	21476
880-12343-3	PH04B	Total/NA	Solid	8015B NM	21476
MB 880-21476/1-A	Method Blank	Total/NA	Solid	8015B NM	21476
LCS 880-21476/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21476
LCSD 880-21476/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21476
890-2059-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	21476
890-2059-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21476

Prep Batch: 21476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	8015NM Prep	
880-12343-2	PH04A	Total/NA	Solid	8015NM Prep	
880-12343-3	PH04B	Total/NA	Solid	8015NM Prep	
MB 880-21476/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21476/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21476/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-2059-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-2059-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	8015 NM	
880-12343-2	PH04A	Total/NA	Solid	8015 NM	
880-12343-3	PH04B	Total/NA	Solid	8015 NM	

HPLC/IC

Analysis Batch: 46528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	300.0	46539
880-12343-2	PH04A	Total/NA	Solid	300.0	46539
880-12343-3	PH04B	Total/NA	Solid	300.0	46539
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300.0	46539
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300.0	46539
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46539
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300.0	46539
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300.0	46539

Prep Batch: 46539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12343-1	PH04	Total/NA	Solid	300_Prep	- <u> </u>
880-12343-2	PH04A	Total/NA	Solid	300_Prep	
880-12343-3	PH04B	Total/NA	Solid	300_Prep	
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300_Prep	
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300_Prep	

Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Lab Sample ID: 880-12343-1

Client Sample ID: PH04 Date Collected: 03/10/22 13:10 Date Received: 03/11/22 11:23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 01:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22171	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21630	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	21476	03/14/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21460	03/14/22 19:47	AJ	XEN MID
Total/NA	Prep	300_Prep			5.02 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 17:04	A1S	XEN STF

Lab Sample ID: 880-12343-2

Matrix: Solid

Date Collected: 03/10/22 13:15 Date Received: 03/11/22 11:23

Client Sample ID: PH04A

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	22141	03/23/22 13:50	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22183	03/24/22 02:19	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22171	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21630	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21476	03/14/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21460	03/14/22 20:07	AJ	XEN MID
Total/NA	Prep	300_Prep			5.09 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 17:16	A1S	XEN STF

Client Sample ID: PH04B Lab Sample ID: 880-12343-3

Date Collected: 03/10/22 13:18 Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	21817	03/18/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21979	03/21/22 16:37	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22171	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21630	03/15/22 10:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21476	03/14/22 08:47	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21460	03/14/22 20:28	AJ	XEN MID
Total/NA	Prep	300_Prep			5.08 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 17:51	A1S	XEN STF

Laboratory References:

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

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Midland

Released to Imaging: 9/9/2022 9:51:35 AM

Matrix: Solid

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12343-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.081518, -103.5452

Laboratory: Eurofins Midland

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

Authority	P	rogram	Identification Number	Expiration Date
Texas	N	IELAP	T104704400-21-22	06-30-22
The following analytes the agency does not of	•	out the laboratory is not certifi	ied by the governing authority. This list ma	ay include analytes for
0 ,		Matrix	Analyte	
Analysis Method 8015 NM	Prep Method	Matrix Solid	Analyte Total TPH	

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

Method Summary

Client: WSP USA Inc.

Method

8021B

Total BTEX 8015 NM

8015B NM

300_Prep

8015NM Prep

300.0

5035

Project/Site: Red Bull 35 Federal 001

Method Description

Total BTEX Calculation

Microextraction

Volatile Organic Compounds (GC)

Diesel Range Organics (DRO) (GC)

Diesel Range Organics (DRO) (GC)

Anions, Ion Chromatography, 10% Wt/Vol

Anions, Ion Chromatography

Closed System Purge and Trap

Job ID: 880-12343-1

SDG: 32.081518, -103.5452

XEN MID

XEN MID

Protocol	Laboratory
SW846	XEN MID
TAL SOP	XEN MID
SW846	XEN MID
SW846	XEN MID
MCAWW	XEN STF
MCAWW	XEN STE

SW846

SW846

Protocol References:

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 XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12343-1

SDG: 32.081518, -103.5452

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Dep
880-12343-1	PH04	Solid	03/10/22 13:10	03/11/22 11:23	1
-12343-2	PH04A	Solid	03/10/22 13:15	03/11/22 11:23	3
380-12343-3	PH04B	Solid	03/10/22 13:18	03/11/22 11:23	4

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Total 200.7 Circle Metho

Relinquished by (Signature)

Received by: (Signature)

Date/Time 200 11,2%

Relinquished by (Signature)

Received by: (Signature)

Date/Time

Revised Date 101419 Rev 2019 1

Modic Green

Phone

City State ZIP Address Company Name Project Manager

Sampler's Name

Project Location

Cooler Custody Se

Received Intact: emperature (°C) SAMPLE RE

Sample Custody S

Project Number Project Name

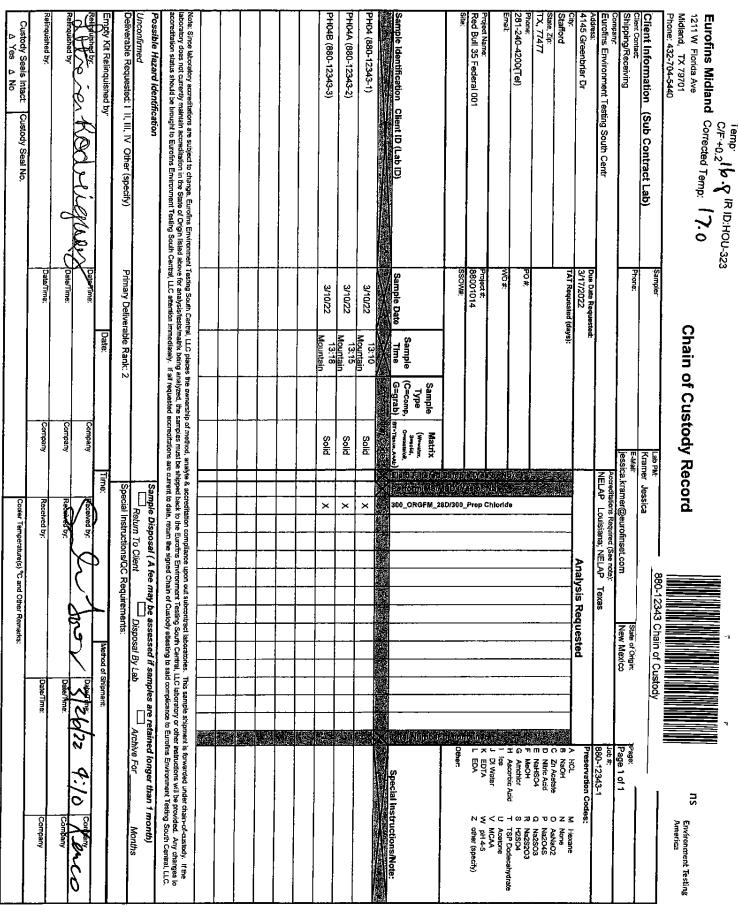
Chain of Custody

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

Manager Kale	Kalei Jennings		Bill to (if different)		Kalai lanninga	25		W-1-0-1-0	
	WSP USA Inc		Company Name		WSP USA Inc	nc		Program IIST/PST PRP Brownfield PPC	PRP Brownfield BRC Superfund
330	3300 North A Street, Bldo	Bldg 1, Unit 222	Address						
tate ZIP Midl			City State ZIP					Level I₽	PST/USP TRRP Level P
817-	817-683-2503	E	Email kaleı jennings@wsp com	gwwsp o	com			es EDD <equation-block></equation-block>	Other:
Name	Red Bull 35 Federal 001	eral 001	Turn Around				ANALYSIS REQUEST	JEST	Preservative Codes
Number	31402909 170		Routine X	ode					HNO3 HN
Location	32 08518, -103 5452		Rush 🗌	re Co					H2S04 H2
er's Name	Hadlie Green		Due Date 5 DAY	vativ	<u> </u>				HCL HL
				ser	_				None NO
PLE RECEIPT	Temp Blank	Yes (No) We	Wet Ice Res No	Pre					NaOH Na
rature (°C)	2312.2	The	9	ers/		0)			MeOH Me
ed Intact:	/res No	H	0 2			A 30			Zn Acetate+ NaOH Zn
Custody Seals	Yes No WIA C	Correction Factor				(EP			
Custody Seals	Yes No MA	otal Containers				DES			lab if received by 4 30pm
Sample Identification	Matrix	Date Time Sampled Sampled	le Depth	Numbe	TPH (EF	CHLOR			Sample Comments
POHQ	s 1s	3-10-22 13-10	0 1		$\frac{1}{2}$	X			
PHOYA		13:15	S 3					,	***************************************
PHOY B	_	√ 13:1¢	<u>ه</u>	4	\ \	•			
								880-12343 Chain of Custody	y
					+	1			
tal 200.7 / 6010	200.8 / 6020:		- 11 1	≥∥∣	₽.	Be B	Ca Cr Co Cu Fe	Ma Mn Mo Ni K Se	Na Sr Ti
le Method(s) an	rcle Method(s) and Metal(s) to be analyzed		_		As	a Be C	r Co Cu Pb Mn N	TI U	31 / 245.1 / 7470 / 7
I 200.7 / 6010 le Method(s) an	ignature of this document and relinquishment of samples constitutes a valid nurches order from client terms of this document and relinquishment of samples constitutes a valid nurches order from client terms in X-ray in Series (X-ray in Series).	8RCRA 7	13PPM Texas 11	1 AI Sb	As Ba	Be B	Cd Ca Cr Co Cu Fe F	Pb Mg Mn Mo Ni K Se Ag SiO2 No Ni Se Ag Ti U 16:	D2 Na Sr TI Sn U V
nature of this docume	ent and relinguishment of sa								The second secon

Work Order No:

13 14



Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12343-1

SDG Number: 32.081518, -103.5452

Login Number: 12343 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12343-1

SDG Number: 32.081518, -103.5452

Login Number: 12343 **List Source: Eurofins Houston** List Creation: 03/26/22 01:15 PM List Number: 2 Creator: Torres, Sandra

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.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	17.0
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	

True

True

MS/MSDs

<6mm (1/4").

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12344-1

Laboratory Sample Delivery Group: 32.08518, -103.5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

MRAMER

Authorized for release by: 3/29/2022 10:08:46 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

Review your project results through

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www.eurofinsus.com/Env

Released to Imaging: 9/9/2022 9:51:35 AM

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

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

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Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Laboratory Job ID: 880-12344-1

SDG: 32.08518, -103.5452

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Qualifiers

GC VOA

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

GC Semi VOA

Qualifier **Qualifier Description**

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier **Qualifier Description**

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

applicable.

U Indicates the analyte was analyzed for but not detected.

Glossary

EDL

LOD

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)

LOQ Limit of Quantitation (DoD/DOE) MCL EPA recommended "Maximum Contaminant Level" MDA Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry) MDC

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

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

Not Calculated NC

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

NEG Negative / Absent POS Positive / Present

Practical Quantitation Limit PQL

PRES Presumptive **Quality Control** QC

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12344-1

SDG: 32.08518, -103.5452

Job ID: 880-12344-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12344-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

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

GC Semi VOA

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

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

Matrix: Solid

Lab Sample ID: 880-12344-1

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Client Sample ID: PH05

Date Collected: 03/10/22 13:46 Date Received: 03/11/22 11:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		03/18/22 16:00	03/21/22 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130			03/18/22 16:00	03/21/22 16:58	1
1,4-Difluorobenzene (Surr)	117		70 - 130			03/18/22 16:00	03/21/22 16:58	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397	mg/Kg			03/22/22 16:47	1
Analyte Total TPH	<50.0	Qualifier U		Unit mg/Kg	D	Prepared	Analyzed	Dil Fa
- IOIAI IPH	<50.0	U	50.0				02/46/22 00:25	
=				mg/Kg			03/16/22 08:25	1
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)		mg/Kg			03/16/22 08:25	1
	Result	Qualifier	RL	Unit	D	Prepared	03/16/22 08:25 Analyzed	·
Analyte Gasoline Range Organics	• •	Qualifier	RL 50.0		<u>D</u>	Prepared 03/14/22 08:36		Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		Unit	<u>D</u>		Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <50.0 <50.0	Qualifier U	50.0	unit mg/Kg mg/Kg	<u>D</u>	03/14/22 08:36 03/14/22 08:36	Analyzed 03/15/22 17:51 03/15/22 17:51	Dil Fac
	Result <50.0	Qualifier U	50.0	<mark>Unit</mark> mg/Kg	<u>D</u>	03/14/22 08:36	Analyzed 03/15/22 17:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	unit mg/Kg mg/Kg	<u>D</u>	03/14/22 08:36 03/14/22 08:36 03/14/22 08:36 Prepared	Analyzed 03/15/22 17:51 03/15/22 17:51 03/15/22 17:51 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <50.0 <50.0 <50.0	Qualifier U U U	50.0 50.0 50.0	unit mg/Kg mg/Kg	<u> </u>	03/14/22 08:36 03/14/22 08:36 03/14/22 08:36	Analyzed 03/15/22 17:51 03/15/22 17:51 03/15/22 17:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	Result	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	unit mg/Kg mg/Kg	<u>D</u>	03/14/22 08:36 03/14/22 08:36 03/14/22 08:36 Prepared	Analyzed 03/15/22 17:51 03/15/22 17:51 03/15/22 17:51 Analyzed	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U Qualifier	50.0 50.0 50.0 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	03/14/22 08:36 03/14/22 08:36 03/14/22 08:36 Prepared 03/14/22 08:36	Analyzed 03/15/22 17:51 03/15/22 17:51 03/15/22 17:51 Analyzed 03/15/22 17:51	Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Result	Qualifier U U U	50.0 50.0 50.0 Limits 70 - 130	unit mg/Kg mg/Kg	<u>D</u>	03/14/22 08:36 03/14/22 08:36 03/14/22 08:36 Prepared 03/14/22 08:36	Analyzed 03/15/22 17:51 03/15/22 17:51 03/15/22 17:51 Analyzed 03/15/22 17:51	Dil Face

Client Sample ID: PH05A

Lab Sample ID: 880-12344-2 Date Collected: 03/10/22 13:52 Matrix: Solid

Date Received: 03/11/22 11:23

Sample Depth: 3

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/18/22 16:00	03/21/22 17:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			03/18/22 16:00	03/21/22 17:18	

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12344-1 SDG: 32.08518, -103.5452

Lab Sample ID: 880-12344-2

03/14/22 08:36 03/15/22 18:12

Matrix: Solid

Client Sample ID: PH05A Date Collected: 03/10/22 13:52

Date Received: 03/11/22 11:23

Sample Depth: 3

Method: 8021B -	Volatile Or	ganic Com	nounds (G	C) (Continued)
Michiga, our in	Volutile Of	garne com	poullus (O) (Continued)

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103	70 - 130	03/18/22 16:00	03/21/22 17:18	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result Qualifi		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402 U	0.00402	mg/Kg			03/22/22 16:47	1

Г				
L	Method: 8015 NM -	Diesel Ran	ige Organic	s (DRO) (GC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			03/16/22 08:25	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:12	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:12	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	105	70 - 130
o-Terphenyl	106	70 - 130

Mothod: 300.0 - Anione Ion Chromatogram					
o-Terphenyl	106	70 - 130	03/14/22 08:36	03/15/22 18:12	1
7 07110700010710	100	70 - 700	00, 1 1/22 00.00	00/10/22 10:12	•

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	206	9.88	mg/Kg		03/26/22 22:57	03/27/22 18:15	1

Client Sample ID: PH05B Lab Sample ID: 880-12344-3

Date Collected: 03/10/22 13:54 Date Received: 03/11/22 11:23

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Michiga. 002 1D - Volunic Organic	Compounds	(30)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
Toluene	<0.00198	U	0.00198	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		03/22/22 07:30	03/22/22 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/22/22 07:30	03/22/22 19:22	1
1,4-Difluorobenzene (Surr)	108		70 - 130			03/22/22 07:30	03/22/22 19:22	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00396	U	0.00396	ma/Ka			03/22/22 16:47	1

Analyte	Result Qualifie	er RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			03/16/22 08:25	1

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-12344-3

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12344-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Client Sample ID: PH05B

Date Collected: 03/10/22 13:54 Date Received: 03/11/22 11:23

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8	mg/Kg		03/14/22 08:36	03/15/22 18:32	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.8	U	49.8	mg/Kg		03/14/22 08:36	03/15/22 18:32	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/14/22 08:36	03/15/22 18:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	88		70 - 130			03/14/22 08:36	03/15/22 18:32	1
o-Terphenyl	92		70 - 130			03/14/22 08:36	03/15/22 18:32	1
Method: 300.0 - Anions, Ion Chro	matography							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			9.86	mg/Kg		03/26/22 22:57	03/27/22 18:27	

2

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10

12

13

Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12325-A-4-J MS	Matrix Spike	101	99	
880-12325-A-4-K MSD	Matrix Spike Duplicate	106	90	
380-12344-1	PH05	101	117	
880-12344-2	PH05A	110	103	
380-12344-3	PH05B	102	108	
880-12580-A-1-J MS	Matrix Spike	104	113	
880-12580-A-1-K MSD	Matrix Spike Duplicate	105	111	
LCS 880-21817/1-A	Lab Control Sample	92	103	
_CS 880-22009/1-A	Lab Control Sample	102	111	
_CSD 880-21817/2-A	Lab Control Sample Dup	102	108	
_CSD 880-22009/2-A	Lab Control Sample Dup	101	110	
MB 880-21817/5-A	Method Blank	107	100	
	Method Blank	101	104	

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12311-A-1-B MS	Matrix Spike	103	96	
880-12311-A-1-C MSD	Matrix Spike Duplicate	106	96	
880-12344-1	PH05	92	92	
880-12344-2	PH05A	105	106	
880-12344-3	PH05B	88	92	
LCS 880-21467/2-A	Lab Control Sample	97	105	
LCSD 880-21467/3-A	Lab Control Sample Dup	104	110	
MB 880-21467/1-A	Method Blank	107	117	
Surrogate Legend				
1CO = 1-Chlorooctane				

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21817/5-A

Lab Sample ID: LCS 880-21817/1-A

Matrix: Solid Analysis Batch: 21979 Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21817

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/18/22 16:00	03/21/22 13:50	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/18/22 16:00	03/21/22 13:50	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/18/22 16:00	03/21/22 13:50	1
1,4-Difluorobenzene (Surr)	100		70 - 130	03/18/22 16:00	03/21/22 13:50	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 21817

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09138 mg/Kg 91 70 - 130 Toluene 0.100 0.08468 mg/Kg 85 70 - 130 0.100 0.08831 88 Ethylbenzene mg/Kg 70 - 130 0.200 0.1854 93 70 - 130 m-Xylene & p-Xylene mg/Kg 0.100 0.09262 70 - 130 o-Xylene mg/Kg 93

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: LCSD 880-21817/2-A

Matrix: Solid

Matrix: Solid

Analysis Batch: 21979

Analysis Batch: 21979

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21817

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09682		mg/Kg		97	70 - 130	6	35
Toluene	0.100	0.08844		mg/Kg		88	70 - 130	4	35
Ethylbenzene	0.100	0.09875		mg/Kg		99	70 - 130	11	35
m-Xylene & p-Xylene	0.200	0.2008		mg/Kg		100	70 - 130	8	35
o-Xylene	0.100	0.1002		mg/Kg		100	70 - 130	8	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 880-12325-A-4-J MS

Matrix: Solid

Analysis Batch: 21979

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

Prep Batch: 21817

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00198	U	0.0990	0.1063		mg/Kg		107	70 - 130	
Toluene	<0.00198	U	0.0990	0.09861		mg/Kg		100	70 - 130	

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Client: WSP USA Inc. Job ID: 880-12344-1 SDG: 32.08518, -103.5452 Project/Site: Red Bull 35 Federal 001

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

Lab Sample ID: 880-12325-A-4-J MS

Matrix: Solid

Analysis Batch: 21979

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 21817

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Ethylbenzene	<0.00198	U	0.0990	0.1009		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	<0.00396	U	0.198	0.2149		mg/Kg		108	70 - 130	
o-Xylene	0.00526		0.0990	0.1071		mg/Kg		103	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21817

Lab Sample ID: 880-12325-A-4-K MSD **Matrix: Solid**

Analysis Batch: 21979

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U	0.0996	0.09278		mg/Kg		93	70 - 130	14	35
Toluene	<0.00198	U	0.0996	0.1022		mg/Kg		103	70 - 130	4	35
Ethylbenzene	<0.00198	U	0.0996	0.1122		mg/Kg		113	70 - 130	11	35
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2449		mg/Kg		122	70 - 130	13	35
o-Xylene	0.00526		0.0996	0.1206		mg/Kg		116	70 - 130	12	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1,4-Difluorobenzene (Surr)	90	70 - 130

Lab Sample ID: MB 880-22009/5-A

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22009

MB MB

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/22/22 07:30	03/22/22 12:55	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/22/22 07:30	03/22/22 12:55	1

MB MB

Surrogate	%Recovery Quality	ier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101	70 - 130	03/22/22 07:30	03/22/22 12:55	1
1 4-Difluorobenzene (Surr)	104	70 - 130	03/22/22 07:30	03/22/22 12:55	1

Lab Sample ID: LCS 880-22009/1-A

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22009

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.1000		mg/Kg		100	70 - 130	
Toluene	0.100	0.09951		mg/Kg		100	70 - 130	
Ethylbenzene	0.100	0.1020		mg/Kg		102	70 - 130	
m-Xylene & p-Xylene	0.200	0.2100		mg/Kg		105	70 - 130	

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

70 - 130

70 - 130

Client Sample ID: Matrix Spike Duplicate

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 22009

100

98

mg/Kg

mg/Kg

Prep Type: Total/NA

QC Sample Results

Job ID: 880-12344-1 Client: WSP USA Inc. Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: LCS 880-22009/1-A **Matrix: Solid**

Analysis Batch: 22109

Prep Batch: 22009 LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.1026 103 70 - 130 mg/Kg

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Lab Sample ID: LCSD 880-22009/2-A

Matrix: Solid

m-Xylene & p-Xylene

o-Xylene

Prep Type: Total/NA Analysis Batch: 22109 Prep Batch: 22009 Spike LCSD LCSD Added Analyte Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.09667 mg/Kg 97 70 - 130 3 35 Toluene 0.100 0.09516 mg/Kg 95 70 - 130 35 0.100 Ethylbenzene 0.09655 mg/Kg 97 70 - 130 5 35

0.1996

0.09811

0.200

0.100

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

Lab Sample ID: 880-12580-A-1-J MS

Matrix: Solid

Analysis Batch: 22109

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	<0.00198	U F1	0.0998	0.06350	F1	mg/Kg		64	70 - 130
Toluene	<0.00198	U F1	0.0998	0.04705	F1	mg/Kg		47	70 - 130
Ethylbenzene	<0.00198	U F1	0.0998	0.03427	F1	mg/Kg		34	70 - 130
m-Xylene & p-Xylene	<0.00397	U F1	0.200	0.06798	F1	mg/Kg		33	70 - 130
o-Xylene	<0.00198	U F1	0.0998	0.03381	F1	mg/Kg		33	70 - 130

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

Lab Sample ID: 880-12580-A-1-K MSD

Matrix: Solid

Analysis Batch: 22109									Prep Batch:		22009	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	<0.00198	U F1	0.0990	0.05763	F1	mg/Kg		58	70 - 130	10	35	
Toluene	<0.00198	U F1	0.0990	0.05221	F1	mg/Kg		52	70 - 130	10	35	
Ethylbenzene	<0.00198	U F1	0.0990	0.04620	F1	mg/Kg		46	70 - 130	30	35	
m-Xylene & p-Xylene	<0.00397	U F1	0.198	0.09579	F1	mg/Kg		48	70 - 130	34	35	
o-Xvlene	<0.00198	U F1	0.0990	0.04725	F1	ma/Ka		47	70 - 130	33	35	

Eurofins Midland

Project/Site: Red Bull 35 Federal 001

Client: WSP USA Inc.

Job ID: 880-12344-1

SDG: 32.08518, -103.5452

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

Lab Sample ID: 880-12580-A-1-K MSD

Matrix: Solid

Analysis Batch: 22109

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22009

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

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

Lab Sample ID: MB 880-21467/1-A

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21467

	IVID	INID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 10:25	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 10:25	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 10:25	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	03/14/22 08:36	03/15/22 10:25	1
o-Terphenyl	117		70 - 130	03/14/22 08:36	03/15/22 10:25	1

Lab Sample ID: LCS 880-21467/2-A

Matrix: Solid

Analysis Batch: 21609

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

Prep Batch: 21467

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	837.3	-	mg/Kg		84	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	918.7		mg/Kg		92	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	97	70 - 130
o-Terphenyl	105	70 - 130

Lab Sample ID: LCSD 880-21467/3-A

Matrix: Solid Analysis Batch: 21609

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21467

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 867.7 87 70 - 130 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1045 mg/Kg 104 70 - 130 13 20

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualit	ier Limits
1-Chlorooctane	104	70 - 130
o-Terphenyl	110	70 - 130

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: 880-12311-A-1-B MS

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 21467

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.8 U 998 967.9 mg/Kg 95 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 998 952 5 95 70 - 130<49.8 U mg/Kg

C10-C28)

MS MS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 103 o-Terphenyl 96 70 - 130

Lab Sample ID: 880-12311-A-1-C MSD

Matrix: Solid Analysis Batch: 21609

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21467

Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit 998 Gasoline Range Organics <49.8 1045 mg/Kg 103 70 - 130 8 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 976.3 mg/Kg 98 70 - 130 2 20 C10-C28)

MSD MSD

Surrogate %Recovery Qualifier Limits 1-Chlorooctane 106 70 - 130 96 70 - 130 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46539/28-A

Matrix: Solid

Chloride

Analysis Batch: 46528

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 46539

MB MB Analyte

Result Qualifier <10.0 U

Unit mg/Kg

Prepared Analyzed 03/26/22 22:57 03/27/22 13:07

Dil Fac

Lab Sample ID: LCS 860-46539/29-A

Matrix: Solid

Analysis Batch: 46528

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

Prep Batch: 46539

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Chloride 100 95.01 95 80 - 120 mg/Kg

Lab Sample ID: LCSD 860-46539/30-A

Matrix: Solid

Analysis Batch: 46528

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 46539

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier D %Rec Limits RPD Limit Unit Chloride 100 96.44 mg/Kg 96 80 _ 120 20

RL

10.0

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 880-12338-A-3-C MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 46528

Prep Type: Total/NA Prep Batch: 46539

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	458		100	666.8	4	mg/Kg		208	80 - 120	

Lab Sample ID: 880-12338-A-3-D MSD Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 46528

Prep Type: Total/NA Prep Batch: 46539

Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec 102 683.2 4 Chloride 458 mg/Kg 221 80 - 120 2

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

GC VOA

Prep Batch: 21817

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	5035	
880-12344-2	PH05A	Total/NA	Solid	5035	
MB 880-21817/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21817/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21817/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12325-A-4-J MS	Matrix Spike	Total/NA	Solid	5035	
880-12325-A-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 21979

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	8021B	21817
880-12344-2	PH05A	Total/NA	Solid	8021B	21817
MB 880-21817/5-A	Method Blank	Total/NA	Solid	8021B	21817
LCS 880-21817/1-A	Lab Control Sample	Total/NA	Solid	8021B	21817
LCSD 880-21817/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21817
880-12325-A-4-J MS	Matrix Spike	Total/NA	Solid	8021B	21817
880-12325-A-4-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	21817

Prep Batch: 22009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
880-12344-3	PH05B	Total/NA	Solid	5035	<u> </u>
MB 880-22009/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-22009/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-22009/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12580-A-1-J MS	Matrix Spike	Total/NA	Solid	5035	
880-12580-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 22109

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-3	PH05B	Total/NA	Solid	8021B	22009
MB 880-22009/5-A	Method Blank	Total/NA	Solid	8021B	22009
LCS 880-22009/1-A	Lab Control Sample	Total/NA	Solid	8021B	22009
LCSD 880-22009/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	22009
880-12580-A-1-J MS	Matrix Spike	Total/NA	Solid	8021B	22009
880-12580-A-1-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	22009

Analysis Batch: 22172

Lab Sample ID 880-12344-1	Client Sample ID PH05	Prep Type Total/NA	Matrix Solid	Method Total BTEX	Prep Batch
880-12344-2	PH05A	Total/NA	Solid	Total BTEX	
880-12344-3	PH05B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	8015NM Prep	
880-12344-2	PH05A	Total/NA	Solid	8015NM Prep	
880-12344-3	PH05B	Total/NA	Solid	8015NM Prep	
MB 880-21467/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21467/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

GC Semi VOA (Continued)

Prep Batch: 21467 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-21467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12311-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12311-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	8015B NM	21467
880-12344-2	PH05A	Total/NA	Solid	8015B NM	21467
880-12344-3	PH05B	Total/NA	Solid	8015B NM	21467
MB 880-21467/1-A	Method Blank	Total/NA	Solid	8015B NM	21467
LCS 880-21467/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21467
LCSD 880-21467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21467
880-12311-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21467
880-12311-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21467

Analysis Batch: 21685

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	8015 NM	
880-12344-2	PH05A	Total/NA	Solid	8015 NM	
880-12344-3	PH05B	Total/NA	Solid	8015 NM	

HPLC/IC

Analysis Batch: 46528

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	300.0	46539
880-12344-2	PH05A	Total/NA	Solid	300.0	46539
880-12344-3	PH05B	Total/NA	Solid	300.0	46539
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300.0	46539
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300.0	46539
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46539
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300.0	46539
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300.0	46539

Prep Batch: 46539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12344-1	PH05	Total/NA	Solid	300_Prep	
880-12344-2	PH05A	Total/NA	Solid	300_Prep	
880-12344-3	PH05B	Total/NA	Solid	300_Prep	
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300_Prep	
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300_Prep	

Project/Site: Red Bull 35 Federal 001

Client Sample ID: PH05

Lab Sample ID: 880-12344-1

Date Collected: 03/10/22 13:46 Date Received: 03/11/22 11:23

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	21817	03/18/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21979	03/21/22 16:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22172	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21685	03/16/22 08:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	21467	03/14/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21609	03/15/22 17:51	AJ	XEN MID
Total/NA	Prep	300_Prep			5.02 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 18:03	A1S	XEN STF

Lab Sample ID: 880-12344-2

Client Sample ID: PH05A Date Collected: 03/10/22 13:52 Matrix: Solid

Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	21817	03/18/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21979	03/21/22 17:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22172	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21685	03/16/22 08:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21467	03/14/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21609	03/15/22 18:12	AJ	XEN MID
Total/NA	Prep	300_Prep			5.06 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 18:15	A1S	XEN STF

Client Sample ID: PH05B Lab Sample ID: 880-12344-3

Date Collected: 03/10/22 13:54 Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 g	22009	03/22/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	22109	03/22/22 19:22	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22172	03/22/22 16:47	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21685	03/16/22 08:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	21467	03/14/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21609	03/15/22 18:32	AJ	XEN MID
Total/NA	Prep	300_Prep			5.07 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 18:27	A1S	XEN STF

Laboratory References:

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

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12344-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Laboratory: Eurofins Midland

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

Authority	Pı	rogram	Identification Number	Expiration Date
Texas Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report in	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for
the agency does not o	fer certification.	,	, , ,	ay morado unarytoo for
• ,	•	Matrix	Analyte	ay moduce unaryose for
the agency does not o	fer certification.	,	, , ,	

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12344-1

SDG: 32.08518, -103.5452

Method	Method Description	Protocol	Laboratory
3021B	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 STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

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 XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12344-1

SDG: 32.08518, -103.5452

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received	ı
880-12344-1	PH05	Solid	03/10/22 13:46	03/11/22 11:23	1
880-12344-2	PH05A	Solid	03/10/22 13:52	03/11/22 11:23	3
880-12344-3	PH05B	Solid	03/10/22 13:54	03/11/22 11:23	4

4

5

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13

Project Manager

Company Name

WSP USA Inc Kaleı Jennings

3300 North A Street, Bldg 1, Unit 222

Address

Bill to (if different) Company Name

WSP USA Inc Kalei Jennings

Program UST/PST☐ PRP☐ BrownfieldS☐ RRC☐

Superfund []

www xenco com

Work Order Comments

State of Project

Chain of Custody

Work Order No: __

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

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		2	3/11/22	N.	Jake So)	Grass	Madri
Date/Time	Received by (Signature)	Relinquished by: (Signature)	Date/Time	ure)	Received by: (Signature)	ture)	by: (Signa	Relinquished by: (Signature)
	d terms and conditions ances beyond the control viously negotiated.	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.	ent company to Xenco, its a osses or expenses incurred bmitted to Xenco, but not an	ırchase order from cl ⊪sponsibility for any l 5 for each sample su	samples constitutes a valid pues and shall not assume any reach project and a charge of \$	nd relinquishment of for the cost of sample .00 will be applied to	his document a l be liable only n charge of \$75	Notice Signature of the of service. Xenco will of Xenco. A minimum
.1/7470	d	d Cr Co Cu Pb Mn N	RA Sb As Ba Be (8RC	ТСГЬ	Circle Method(s) and Metal(s) to be analyzed	od(s) and h	Circle Meth
TI Sn II V Zn	Pb Ma Mn Mo Ni K Se Aa SiO2 Na Sr	Cd Ca Cr Co Cu Fe	Al Sb As Ba Be B	Texas 11	8RCRA 13PPM	200.8 / 6020:		Total 200.7 / 6010
	880-12344 Chain of Custody							
								\$ 1 mm
			* * *	2	₩ 13:54	<	H028	7H(
				w	13:52		PROSA	PH
			- X X X	_	3-70-21 13:46	SL	ઝ	SOHO
Sample Comments	Sa		BTEX (TPH (E	Depth	Date Time Sampled Sampled	n Matrix	Sample Identification	Sample lo
lab if received by 4 30pm	lab		EPA		Total Containers.	Yes No (NIX		Sample Custody Seals
arts the day recoving by the	TAT Sta		0=80 015)	.3	Correction Factor	Yes No WA	L	Cooler Custody Seals
Zn Acetate+ NaOH Zn	Zn Acet)21)	a	Ħ	(Yes) No		Received Intact:
Me	МеОН Ме			ē	Thermometer	2.3/2.2		Temperature (°C)
Na	NaOH Na		/Pre	(Yest) No	Yes (No) Wet Ice	Temp Blank.	CEIPT	SAMPLE RECEIPT
ō	None NO		ser	<u> </u>				PO#
r-	HCL HL		vati	Due Date S DAY		Hadlie Green		Sampler's Name
H2	H2S04 H2		ve C		SUSZ Rush	32.06516, -103. S452	32.00	Project Location
IV	HNO3 HN		ode	X	Routine	31402 909. 170	his	Project Number
Preservative Codes	Pr	ANALYSIS REQUEST		Turn Around		Red Boll 35 Federal DD	Red	Project Name
Other	Deliverables EDD	Deliver	@wsp com	kaleı jennings@wsp com	Email	3-2503	817-683-2503	Phone
TRR⊢ Level H	vel IH PST/USH	Reporti		City State ZIP		Midland, TX 79705	Midland	City State ZIP
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Chain of Custody Sale of Origin. New Mexico Page 1 of 1 Job R 880-12344-1 Preservation Codes: Reach A HCL Preservation Codes: A HCL A HCL Freshold A HCL A H	Custody Seals Infact: Custody Seal No. A Yes A No Cooler Temperature(s) *C and Other Remarks:	Date: Ime Company Received by:	venerally.	Company Received by Contract Company Received by Contract Company Received by Contract Contra	Date: Time:	Special Instructions(QC Require)	Oriconimined Return To Client Disposal By Lab Archive F Deliverable Requested: I II III IV Other (specify) Primary Deliverable Rank: 2 Second Institution Control of the Control of th	Possible Hazard Identification Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	Possible Hazard Identification Sample Disnosel (A fee may be assessed if samples to surface to su	laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/fests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation in the State of Origin listed above for analysis/fests/matrix besting to such central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be provided. Any dranges to accreditation status should be brought to Eurofins Environment Testing South Central LLC aboratory or other instructions will be accreditation to accreditation t	Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forward the contract the contract that the contract the contract the contract that the contract the contract the contract that the contract the contract that the contract the contract that th								Mountain	13:54 Solid	Solid	13:46 Solid X		Sample Date Time G=grab) (Firsten, Arabi) (5)	Sample Matrix Sample Matrix Sample Sample Sandia Sa	280/	/300_i	aliu	WO#	o Tr	m o (IAT Requested (days):	5 Greenbriar Dr 3/17/2022 Analysis Requested	NELAP Louisiana; NELAP Texas	Jessica, kramer@eurofinset.com New Mexico Accreditations Required (See note):	Phone: E-Mail: State of Origin:	Client Information (Sub Contract Lab) Sampler: (Kramer Jessica	Chair of Anatony Mecold	
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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-12344-1

SDG Number: 32.08518, -103.5452

Login Number: 12344 List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
s 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	N/A	

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Released to Imaging: 9/9/2022 9:51:35 AM

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<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12344-1

SDG Number: 32.08518, -103.5452

Login Number: 12344 **List Source: Eurofins Houston** List Number: 2

List Creation: 03/26/22 12:07 PM

Creator:	Torres,	Sandra
Ousstlan		

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	17.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Released to Imaging: 9/9/2022 9:51:35 AM

<6mm (1/4").

Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 880-12345-1

Laboratory Sample Delivery Group: 32.08518, -103.5452

Client Project/Site: Red Bull 35 Federal 001

For:

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

Attn: Kalei Jennings

MEAMER

Authorized for release by: 3/29/2022 10:09:16 AM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

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Client: WSP USA Inc.
Laboratory Job ID: 880-12345-1
Project/Site: Red Bull 35 Federal 001
SDG: 32.08518, -103.5452

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Definitions/Glossary

Client: WSP USA Inc. Job ID: 880-12345-1

Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits

Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier **Qualifier Description**

Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier	Descri	otion
-----------	-----------	--------	-------

MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not

U Indicates the analyte was analyzed for but not detected.

Glossary

CNF

MCL

Appreviation		These commonly used abbreviations may of may not be present in this report.					
Example 2 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					

DER Duplicate Error Ratio (normalized absolute difference)

Contains No Free Liquid

Dilution Factor Dil Fac

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)

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

MDC Minimum Detectable Concentration (Radiochemistry)

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

NC Not Calculated

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

NEG Negative / Absent Positive / Present POS

PQL Practical Quantitation Limit

PRES Presumptive OC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12345-1 SDG: 32.08518, -103.5452

518, -103.5452

Job ID: 880-12345-1

Laboratory: Eurofins Midland

Narrative

Job Narrative 880-12345-1

Receipt

The samples were received on 3/11/2022 11:23 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 2.2°C

GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-21735 and analytical batch 880-21907 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

GC Semi VOA

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

HPLC/IC

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

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Client Sample Results

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Lab Sample ID: 880-12345-1

Job ID: 880-12345-1

Matrix: Solid

Client Sample ID: PH06

Date Collected: 03/10/22 12:35 Date Received: 03/11/22 11:23

Sample Depth: 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
Toluene	<0.00200	U F1	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
Ethylbenzene	<0.00200	U F2 F1	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.00399	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
o-Xylene	<0.00200	U F2 F1	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
Xylenes, Total	<0.00399	U F2 F1	0.00399	mg/Kg		03/17/22 13:16	03/19/22 12:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130			03/17/22 13:16	03/19/22 12:22	1
1,4-Difluorobenzene (Surr)	110		70 - 130			03/17/22 13:16	03/19/22 12:22	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			03/21/22 12:50	1
Method: 8015 NM - Diesel Range								
Method: 8015 NM - Diesel Rango Analyte		O) (GC) Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
_			RL 49.9	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 03/16/22 08:25	Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 84.3	Qualifier			<u>D</u>	Prepared		Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran Analyte	Result 84.3 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier	49.9	mg/Kg	<u>D</u>	Prepared	03/16/22 08:25 Analyzed	Dil Fac Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Ran	Result 84.3 ge Organics (D	Qualifier RO) (GC) Qualifier	49.9	mg/Kg		· ·	03/16/22 08:25	1
Analyte Total TPH Method: 8015B NM - Diesel Randalyte Gasoline Range Organics	Result 84.3 ge Organics (Dige Result	Qualifier RO) (GC) Qualifier	49.9	mg/Kg		Prepared	03/16/22 08:25 Analyzed	1 Dil Fac
Analyte Total TPH Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result 84.3 ge Organics (Di Result							

Client Sample ID: PH06A

Date Collected: 03/10/22 12:39

Date Received: 03/11/22 11:23

Sample Depth: 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/22 13:16	03/19/22 12:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/17/22 13:16	03/19/22 12:43	1

Eurofins Midland

Lab Sample ID: 880-12345-2

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Matrix: Solid

Matrix: Solid

Lab Sample ID: 880-12345-2

03/14/22 08:36

03/15/22 18:53

Lab Sample ID: 880-12345-3

Matrix: Solid

Client Sample Results

Client: WSP USA Inc.

Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Client Sample ID: PH06A

Date Collected: 03/10/22 12:39 Date Received: 03/11/22 11:23

Sample Depth: 2

Method: 8021B - Volatile Organic Compound	s (GC	(Continued)
Wichida, 002 1B - Volatile Organic Compound	3100	, (Continued)

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114	70 - 130	03/17/22 13:16	03/19/22 12:43	1

ı	Mothodi	Total DTEV	- Total BTEX	Coloulation
ı	wethou.	TOTAL DIEV	- IUIAI DIEA	Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			03/21/22 12:50	1

Mothod: 9015 NM - Diocol Pango Oro	rapice (DPO) (CC)

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0 U	50.0	ma/Ka			03/16/22 08:25	1

Method: 8015B	NM Discol	Dange Ore	aaniee (DD()) (CC)
MICHIOU. OU IOD	INIVI - DIESEI	Rallue Oli	ualiics lunc	JI (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:53	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:53	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 18:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac

1-Chlorooctane	99	70 - 130
o-Terphenyl	104	70 - 130

o-Terphenyl	104	70 - 130	03/14/22 08:36	03/15/22 18:53
Method: 300 0 - Anions Ion Chromatogra	nhv			

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	15500	100	mg/Kg	:	03/26/22 22:57	03/27/22 18:51	10

Client Sample ID: PH06B

Date Collected: 03/10/22 12:44 Date Received: 03/11/22 11:23

Sample Depth: 4

Method: 8021B - Volatile Organic Compounds (GC)

Wethou. 0021D - Volatile Orga	ilic Collipoullus ((GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/17/22 13:16	03/19/22 13:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130			03/17/22 13:16	03/19/22 13:04	1
1 4-Difluorobenzene (Surr)	111		70 130			03/17/22 13:16	03/19/22 13:04	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	ma/Ka			03/21/22 12:50	1

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	mg/Kg			03/16/22 08:25	1

Matrix: Solid

Client Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12345-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

Client Sample ID: PH06B Lab Sample ID: 880-12345-3

Date Collected: 03/10/22 12:44
Date Received: 03/11/22 11:23

Sample Depth: 4

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/14/22 08:36	03/15/22 19:13	-
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/14/22 08:36	03/15/22 19:13	•
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/14/22 08:36	03/15/22 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	86		70 - 130			03/14/22 08:36	03/15/22 19:13	
o-Terphenyl	87		70 - 130			03/14/22 08:36	03/15/22 19:13	1
Method: 300.0 - Anions, Ion Chro	omatography							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	157		9.96	mg/Kg		03/26/22 22:57	03/27/22 19:03	

Eurofins Midland

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Surrogate Summary

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surroga
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12345-1	PH06	100	110	
880-12345-1 MS	PH06	99	95	
880-12345-1 MSD	PH06	87	102	
880-12345-2	PH06A	103	114	
880-12345-3	PH06B	103	111	
LCS 880-21735/1-A	Lab Control Sample	93	108	
LCSD 880-21735/2-A	Lab Control Sample Dup	92	103	
MB 880-21733/5-A	Method Blank	103	103	
MB 880-21735/5-A	Method Blank	107	106	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluoroben	zene (Surr)			

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

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

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-12311-A-1-B MS	Matrix Spike	103	96	
880-12311-A-1-C MSD	Matrix Spike Duplicate	106	96	
880-12345-1	PH06	84	83	
880-12345-2	PH06A	99	104	
880-12345-3	PH06B	86	87	
880-12419-A-1-B MS	Matrix Spike	110	94	
880-12419-A-1-C MSD	Matrix Spike Duplicate	117	103	
LCS 880-21467/2-A	Lab Control Sample	97	105	
LCS 880-21614/2-A	Lab Control Sample	98	92	
LCSD 880-21467/3-A	Lab Control Sample Dup	104	110	
LCSD 880-21614/3-A	Lab Control Sample Dup	95	90	
MB 880-21467/1-A	Method Blank	107	117	
MB 880-21614/1-A	Method Blank	116	128	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-21733/5-A

Analysis Batch: 21907

Matrix: Solid

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 21733

	IVID	IVID						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:09	03/18/22 20:43	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/17/22 13:09	03/18/22 20:43	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/17/22 13:09	03/18/22 20:43	1
1,4-Difluorobenzene (Surr)	103		70 - 130	03/17/22 13:09	03/18/22 20:43	1

Lab Sample ID: MB 880-21735/5-A

Matrix: Solid

Analysis Batch: 21907

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

Prep Batch: 21735

	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:00	
Toluene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:00	
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:00	•
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/17/22 13:16	03/19/22 12:00	
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/17/22 13:16	03/19/22 12:00	

0.00400

mg/Kg

MB MB

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	03/17/22 13:16	03/19/22 12:00	1
1,4-Difluorobenzene (Surr)	106		70 - 130	03/17/22 13:16	03/19/22 12:00	1

Lab Sample ID: LCS 880-21735/1-A

Matrix: Solid

Xylenes, Total

Analysis Batch: 21907

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 21735

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09677		mg/Kg		97	70 - 130	
Toluene	0.100	0.08857		mg/Kg		89	70 - 130	
Ethylbenzene	0.100	0.08995		mg/Kg		90	70 - 130	
m-Xylene & p-Xylene	0.200	0.1860		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09237		mg/Kg		92	70 - 130	

LCS LCS

Surrogate	%Recovery Qualif	ier Limits
4-Bromofluorobenzene (Surr)	93	70 - 130
1,4-Difluorobenzene (Surr)	108	70 - 130

Lab Sample ID: LCSD 880-21735/2-A

Matrix: Solid

Analysis Batch: 21907

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

Prep Type: Total/NA

Prep Batch: 21735

	Бріке	LCSD LCSD				%Rec.		RPD	
Analyte	Added	Result Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1040	mg/Kg		104	70 - 130	7	35	

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Lab Sample ID: LCSD 880-21735/2-A

Matrix: Solid

Analysis Batch: 21907

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21735

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene	0.100	0.09291		mg/Kg		93	70 - 130	5	35
Ethylbenzene	0.100	0.09460		mg/Kg		95	70 - 130	5	35
m-Xylene & p-Xylene	0.200	0.1939		mg/Kg		97	70 - 130	4	35
o-Xylene	0.100	0.09601		mg/Kg		96	70 - 130	4	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-12345-1 MS

Matrix: Solid

Analysis Batch: 21907

Client Sample ID: PH06 Prep Type: Total/NA

Prep Batch: 21735

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0996	0.08751		mg/Kg		88	70 - 130	
Toluene	<0.00200	U F1	0.0996	0.08708		mg/Kg		87	70 - 130	
Ethylbenzene	<0.00200	U F2 F1	0.0996	0.08818		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.199	0.1876		mg/Kg		94	70 - 130	
o-Xylene	<0.00200	U F2 F1	0.0996	0.09395		mg/Kg		94	70 - 130	

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	99	70 - 130
1,4-Difluorobenzene (Surr)	95	70 - 130

Lab Sample ID: 880-12345-1 MSD

Matrix: Solid

Analysis Batch: 21907

Client Sample ID: PH06

Prep Type: Total/NA Prep Batch: 21735

Analysis Daton. 21301									1 ICP	Daton.	21700
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0992	0.07734		mg/Kg		78	70 - 130	12	35
Toluene	<0.00200	U F1	0.0992	0.06406	F1	mg/Kg		64	70 - 130	30	35
Ethylbenzene	<0.00200	U F2 F1	0.0992	0.05880	F2 F1	mg/Kg		59	70 - 130	40	35
m-Xylene & p-Xylene	<0.00399	U F2 F1	0.198	0.1216	F2 F1	mg/Kg		61	70 - 130	43	35
o-Xylene	<0.00200	U F2 F1	0.0992	0.06144	F2 F1	mg/Kg		61	70 - 130	42	35

MSD MSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	87	70 - 130
1,4-Difluorobenzene (Surr)	102	70 - 130

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

Lab Sample ID: MB 880-21467/1-A

Matrix: Solid

Analysis Batch: 21609

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

Prep Batch: 21467

	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/14/22 08:36	03/15/22 10:25	1

(GRO)-C6-C10

o-Terphenyl

QC Sample Results

 Client: WSP USA Inc.
 Job ID: 880-12345-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

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

Lab Sample ID: MB 880-21467/1-A

Matrix: Solid
Analysis Batch: 21609

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 21467

Analyte	Analyzed	Analyte	Dil Fac
Diesel Range Org C10-C28)	6 03/15/22 10:25	Diesel Range Organics (Over C10-C28)	1
Oll Range Organio	6 03/15/22 10:25	OII Range Organics (Over C28-C36)	1
Surrogate	Analyzed	Surrogate	Dil Fac
1-Chlorooctane	03/15/22 10:25	1-Chlorooctane	1
o-Terphenyl	6 03/15/22 10:25	o-Terphenyl	1

Lab Sample ID: LCS 880-21467/2-A **Client Sample ID: Lab Control Sample** Matrix: Solid Prep Type: Total/NA Analysis Batch: 21609 Prep Batch: 21467 LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics 1000 837.3 84 70 - 130 mg/Kg (GRO)-C6-C10 1000 918.7 Diesel Range Organics (Over mg/Kg 92 70 - 130 C10-C28) LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 70 - 130 97

Lab Sample ID: LCSD 880-21467/3-A

Matrix: Solid

Analysis Batch: 21609

Spike

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21467

Spike

LCSD LCSD

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 21467

RPD

70 - 130

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	867.7		mg/Kg		87	70 - 130	4	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	1045		mg/Kg		104	70 - 130	13	20	
C10-C28)										

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	104		70 - 130
o-Terphenyl	110		70 - 130

105

Lab Sample ID: 880-12311-A-1-B MS

Matrix: Solid

Analysis Batch: 21609

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 21467

Analysis Daton. 21005									i icp i	Duton. 21-	1 01
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	998	967.9		mg/Kg		95	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	998	952.5		mg/Kg		95	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 103
 70 - 130

 o-Terphenyl
 96
 70 - 130

Lab Sample ID: 880-12311-A-1-C MSD

QC Sample Results

Job ID: 880-12345-1 Client: WSP USA Inc. Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

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

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 21467

Prep Type: Total/NA

Prep Batch: 21614

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	998	1045		mg/Kg		103	70 - 130	8	20
(GRO)-C6-C10 Diesel Range Organics (Over	<49.8	U	998	976.3		mg/Kg		98	70 - 130	2	20

C10-C28)

Matrix: Solid

Analysis Batch: 21609

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	96		70 - 130

Lab Sample ID: MB 880-21614/1-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 21611

мв мв

Result Qualifier Unit Analyte RL Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 03/15/22 08:41 03/15/22 10:25 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 03/15/22 08:41 03/15/22 10:25 C10-C28) Oll Range Organics (Over C28-C36) 50.0 <50.0 U mg/Kg 03/15/22 08:41 03/15/22 10:25

MB MB

Surrogate	%Recovery Quali	ifier Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	116	70 - 130	03/15/22 08:41	03/15/22 10:25	1
o-Terphenyl	128	70 - 130	03/15/22 08:41	03/15/22 10:25	1

Lab Sample ID: LCS 880-21614/2-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	1041		mg/Kg		104	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	916.3		mg/Kg		92	70 - 130
040 000)							

C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	98		70 - 130
o-Terphenyl	92		70 - 130

Lab Sample ID: LCSD 880-21614/3-A

Matrix: Solid

Analysis Batch: 21611

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

Prep Batch: 21614

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1058		mg/Kg		106	70 - 130	2	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	871.6		mg/Kg		87	70 - 130	5	20
C10-C28)									

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Prep Batch: 21614

 Client: WSP USA Inc.
 Job ID: 880-12345-1

 Project/Site: Red Bull 35 Federal 001
 SDG: 32.08518, -103.5452

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

Lab Sample ID: LCSD 880-21614/3-A

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 21614

LCSD LCSD urrogate %Recovery Qualifier

Lab Sample ID: 880-12419-A-1-B MS Client Sample ID: Matrix Spike

Matrix: Solid

Analysis Batch: 21611

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

Prep Batch: 21614

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits <49.8 U 998 1176 118 70 - 130Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 998 107 <49.8 U 1119 mg/Kg 70 - 130C10-C28)

MS MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 110
 70 - 130

 o-Terphenyl
 94
 70 - 130

Lab Sample ID: 880-12419-A-1-C MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid

Analysis Batch: 21611

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 46539

Prep Batch: 21614

MSD MSD Sample Sample Spike %Rec. RPD Analyte Result Qualifier hahhA Result Qualifier Unit %Rec I imits RPD Limit D Gasoline Range Organics <49.8 U 998 1146 mg/Kg 115 70 - 130 3 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 998 1193 mg/Kg 115 70 - 130 6 20 C10-C28)

C10-C28)

Matrix: Solid

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 117
 70 - 130

 o-Terphenyl
 103
 70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 860-46539/28-A Client Sample ID: Method Blank

Analysis Batch: 46528

MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac

 Analyte
 Result
 Qualifier
 RL
 Unit
 D
 Prepared
 Analyzed
 Dil Fac

 Chloride
 <10.0</td>
 U
 10.0
 mg/Kg
 03/26/22 22:57
 03/27/22 13:07
 1

Lab Sample ID: LCS 860-46539/29-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 46528 Prep Batch: 46539

 Analyte
 Added
 Result
 Qualifier
 Unit
 D
 %Rec.

 Chloride
 100
 95.01
 mg/Kg
 95
 80 - 120

Eurofins Midland

1

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5

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4 4

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001

SDG: 32.08518, -103.5452

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 860-46539/30-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 46528 Prep Batch: 46539 Spike LCSD LCSD RPD Limit Analyte Added Result Qualifier Unit %Rec Limits RPD Chloride 100 96.44 mg/Kg 96 80 - 120 20

Lab Sample ID: 880-12338-A-3-C MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 46528** Prep Batch: 46539

Sample Sample Spike MS MS %Rec. Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 458 100 666.8 4 mg/Kg 208 80 - 120

Lab Sample ID: 880-12338-A-3-D MSD Client Sample ID: Matrix Spike Duplicate **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 46528** Prep Batch: 46539

MSD MSD RPD Sample Sample Spike %Rec. Analyte Result Qualifier Added Result Qualifier Unit Limits **RPD** Limit Chloride 458 102 683.2 221 80 - 120 2 mg/Kg

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12345-1 SDG: 32.08518, -103.5452

GC VOA

Prep Batch: 21733

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-21733/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 21735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	5035	
880-12345-2	PH06A	Total/NA	Solid	5035	
880-12345-3	PH06B	Total/NA	Solid	5035	
MB 880-21735/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-21735/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-21735/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-12345-1 MS	PH06	Total/NA	Solid	5035	
880-12345-1 MSD	PH06	Total/NA	Solid	5035	

Analysis Batch: 21907

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	8021B	21735
880-12345-2	PH06A	Total/NA	Solid	8021B	21735
880-12345-3	PH06B	Total/NA	Solid	8021B	21735
MB 880-21733/5-A	Method Blank	Total/NA	Solid	8021B	21733
MB 880-21735/5-A	Method Blank	Total/NA	Solid	8021B	21735
LCS 880-21735/1-A	Lab Control Sample	Total/NA	Solid	8021B	21735
LCSD 880-21735/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	21735
880-12345-1 MS	PH06	Total/NA	Solid	8021B	21735
880-12345-1 MSD	PH06	Total/NA	Solid	8021B	21735

Analysis Batch: 22058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	Total BTEX	
880-12345-2	PH06A	Total/NA	Solid	Total BTEX	
880-12345-3	PH06B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 21467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-2	PH06A	Total/NA	Solid	8015NM Prep	
880-12345-3	PH06B	Total/NA	Solid	8015NM Prep	
MB 880-21467/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21467/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12311-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12311-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-2	PH06A	Total/NA	Solid	8015B NM	21467
880-12345-3	PH06B	Total/NA	Solid	8015B NM	21467
MB 880-21467/1-A	Method Blank	Total/NA	Solid	8015B NM	21467
LCS 880-21467/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21467
LCSD 880-21467/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21467
880-12311-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21467

QC Association Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12345-1

SDG: 32.08518, -103.5452

GC Semi VOA (Continued)

Analysis Batch: 21609 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12311-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21467

Analysis Batch: 21611

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	8015B NM	21614
MB 880-21614/1-A	Method Blank	Total/NA	Solid	8015B NM	21614
LCS 880-21614/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	21614
LCSD 880-21614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	21614
880-12419-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	21614
880-12419-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	21614

Prep Batch: 21614

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	8015NM Prep	
MB 880-21614/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-21614/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-21614/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-12419-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-12419-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 21686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	8015 NM	
880-12345-2	PH06A	Total/NA	Solid	8015 NM	
880-12345-3	PH06B	Total/NA	Solid	8015 NM	

HPLC/IC

Analysis Batch: 46528

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Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	300.0	46539
880-12345-2	PH06A	Total/NA	Solid	300.0	46539
880-12345-3	PH06B	Total/NA	Solid	300.0	46539
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300.0	46539
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300.0	46539
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300.0	46539
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300.0	46539
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300.0	46539

Prep Batch: 46539

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-12345-1	PH06	Total/NA	Solid	300_Prep	- <u>- </u>
880-12345-2	PH06A	Total/NA	Solid	300_Prep	
880-12345-3	PH06B	Total/NA	Solid	300_Prep	
MB 860-46539/28-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 860-46539/29-A	Lab Control Sample	Total/NA	Solid	300_Prep	
LCSD 860-46539/30-A	Lab Control Sample Dup	Total/NA	Solid	300_Prep	
880-12338-A-3-C MS	Matrix Spike	Total/NA	Solid	300_Prep	
880-12338-A-3-D MSD	Matrix Spike Duplicate	Total/NA	Solid	300_Prep	

Eurofins Midland

Released to Imaging: 9/9/2022 9:51:35 AM

Lab Chronicle

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Client Sample ID: PH06

Date Received: 03/11/22 11:23

Lab Sample ID: 880-12345-1 Date Collected: 03/10/22 12:35

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.01 g 5 mL 21735 03/17/22 13:16 KL XEN MID 8021B Total/NA Analysis 1 5 mL 5 mL 21907 03/19/22 12:22 KL XEN MID Total/NA Analysis Total BTEX 22058 03/21/22 12:50 ΑJ XEN MID Total/NA 8015 NM 21686 Analysis 1 03/16/22 08:25 AJ XEN MID Total/NA 8015NM Prep 21614 03/15/22 08:41 XEN MID Prep 10.03 g 10 mL DM Total/NA Analysis 8015B NM 21611 03/15/22 18:53 ΑJ XEN MID Total/NA 50 mL 46539 03/26/22 22:57 ANP XEN STF Prep 300_Prep 4.97 g Total/NA Analysis 300.0 10 46528 03/27/22 18:39 A1S XEN STF

Client Sample ID: PH06A Lab Sample ID: 880-12345-2

Date Collected: 03/10/22 12:39 **Matrix: Solid** Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	21735	03/17/22 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 12:43	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22058	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21686	03/16/22 08:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	21467	03/14/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21609	03/15/22 18:53	AJ	XEN MID
Total/NA	Prep	300_Prep			4.98 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		10			46528	03/27/22 18:51	A1S	XEN STF

Client Sample ID: PH06B Lab Sample ID: 880-12345-3 Date Collected: 03/10/22 12:44 **Matrix: Solid**

Date Received: 03/11/22 11:23

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	21735	03/17/22 13:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	21907	03/19/22 13:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			22058	03/21/22 12:50	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			21686	03/16/22 08:25	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	21467	03/14/22 08:36	DM	XEN MID
Total/NA	Analysis	8015B NM		1			21609	03/15/22 19:13	AJ	XEN MID
Total/NA	Prep	300_Prep			5.02 g	50 mL	46539	03/26/22 22:57	ANP	XEN STF
Total/NA	Analysis	300.0		1			46528	03/27/22 19:03	A1S	XEN STF

Laboratory References:

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

XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 880-12345-1 Project/Site: Red Bull 35 Federal 001 SDG: 32.08518, -103.5452

Laboratory: Eurofins Midland

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

Authority	Pi	rogram	Identification Number	Expiration Date
Texas Texas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report in	ut the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for t
the agency does not o	fer certification.	,	, , ,	ay morado unarytoo for
• ,	•	Matrix	Analyte	ay molade analytes for
the agency does not o	fer certification.	,	, , ,	

Laboratory: Eurofins Houston

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704215-21-44	06-30-22

Method Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12345-1

SDG: 32.08518, -103.5452

Method	Method Description	Protocol	Laboratory
3021B	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 STF
300_Prep	Anions, Ion Chromatography, 10% Wt/Vol	MCAWW	XEN STF
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID

Protocol References:

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 XEN STF = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: WSP USA Inc.

Project/Site: Red Bull 35 Federal 001

Job ID: 880-12345-1

SDG: 32.08518, -103.5452

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	De
880-12345-1	PH06	Solid	03/10/22 12:35	03/11/22 11:23	1
880-12345-2	PH06A	Solid	03/10/22 12:39	03/11/22 11:23	2
880-12345-3	PH06B	Solid	03/10/22 12:44	03/11/22 11:23	4

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Project Manager

Kalei Jennings WSP USA Inc

Address Company Name

3300 North A Street Bldg 1, Unit 222

Company Name Bill to (if different)

Kaleı Jennings WSP USA Inc

Address

Hobbs NM (575) 392 7550 Carlsbad NM (575) 988

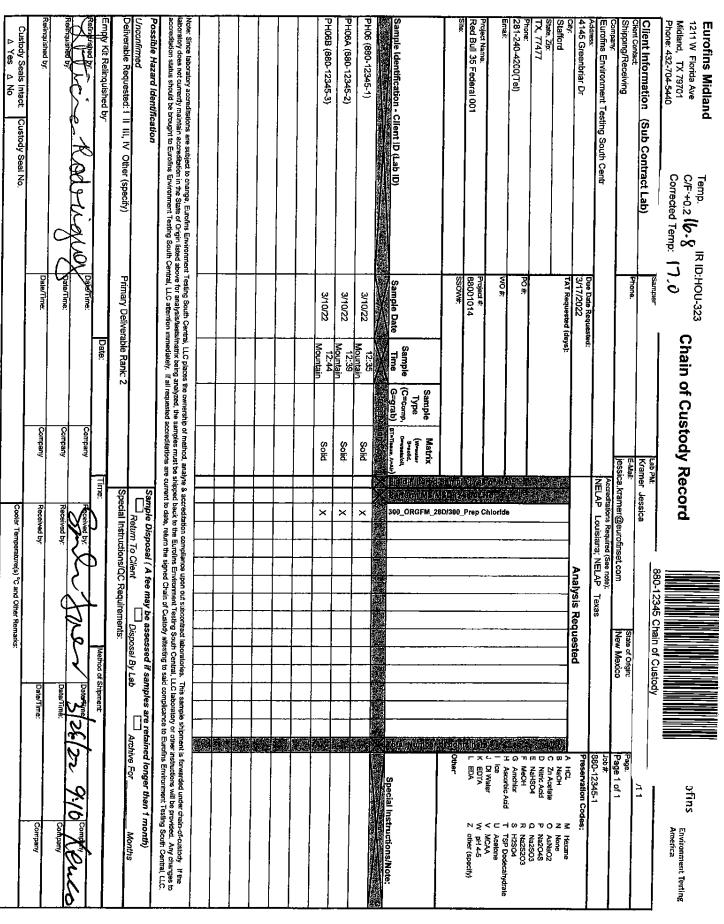
Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334 Midland TX (432) 704-5440 FI Paso TX (915) 585-3443 Lubbock TX (806) 794-1296 Midland TX (432) 704-5440 EL Paso TX (915) 585-3443 Lubbock, TX (806) **Chain of Custody**

Tampa FL (813) 620-2000 Tallahassee FL (850) 756-

City State ZIP	Midland TX 79705	5		Q	City State ZIP	L									Reporting Level	ng Lev	è) &	Level T		PST/USH		TRR-P		Level H	
Phone	817-683-2503			Email ka	kaleı jennings@wsp com	s@wsi	com								Deliverables	ables	EDD			ADai	ADaPT -		Other	-		L
Project Name	Red Bull 35 Redural	S Reden	100 mg	Turn	Turn Around						ANA	YSIS	REC	ANALYSIS REQUEST	7						\dashv	Pre	serv	ative	Preservative Codes	Š
Project Number	31402	31402909.170	5	Routine	X	ode		\dashv		_											풀	HNO3 HN	Ż			
Project Location	32.00516,-103.5452	43.80/-	152	Rush		/e Co					\dashv	_	-	_						\dashv	 H2,	H2S04 H2	12			
Sampler's Name	Had	Hadlie Green		Due Dat	Due Date 5 p/N	vativ															H	HCL HL				
PO#:						ser															N _O	None NO	J			
SAMPLE RECEIPT	IPT Temp Blank	Blank Yeş⁄	₹)	Wet Ice (Xes)	(S) N	Pre															Na	NaOH Na	Ø			
Temperature (°C)	23/2		Ther	Thermometer ID		ers			10)												Me	МеОН Ме	ต์			
Received Intact:	Yes No	0		7700		tair	21)		A 30												Zn	Aceta	fe ∔ Z:	Zn Acetate+ NaOH Zn	Zn	
Cooler Custody Seals	Yes No (N/A)		Correction Factor	7	-]	Con			(EP												1					
Sample Custody Seals	Yes No	Total	Total Containers			of			DES													lab A	if rece	ived by	lab if received by 4:30pm	m u
Sample Identification		Matrix San	Date Sampled Sa	Time Sampled	Depth	lumbe	STEX (E	PH (EP	HLORI											<u></u>		Sa	nple	Com	Sample Comments	S
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PHOPA				17:39	4		_	_			_									+	\dashv					
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Total 200.7 / 6010 Circle Method(s) a	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	2 0: be analyze	8R	8RCRA 13PPM Texas 11 Al TCLP / SPLP 6010 8RCRA	Texas 11 6010 8R	^R ≥	Sb As Ba Be B Cd Ca Cr Co Cu Fe Pt Sb As Ba Be Cd Cr Co Cu Pb Mn Mo	Ba Be Ba Be	e B C	Cd Ca	C C	Co Cu Fe Su Pb Mn I	Mn Fe	_ ~ "	Mg Mn Mo Ni Ni Se Ag TI U	Ag ⊠		K Se	e Ag	SS	2 Na	Na Sr TI 31 / 245.1	TI SI	Sn U \)2 Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471	₽
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.	ocument and relinquish liable only for the cost o irge of \$75.00 will be app	ment of sample f samples and plied to each p	es constitutes shall not assu roject and a ch	a valid purcha me any respo narge of \$5 for	ise order from nsibility for an each sample	client co y losses submitter	or expend to Xend	o Xenco ises inci	, its affil urred by not analy	iates an the clie zed. Th	d subco	ontracto sh losse	ors. It a	ssigns lue to ci	s standard terms and conditions circumstances beyond the control unless previously negotiated.	d term	s and beyond	condition the contact	ons		***************************************	***************************************	***************************************			
Relinquished by (Signature)	(Signature)) Re	Received by: (Signature	(Signature			Date/Time	ime		Relir	Relinquished by (Signatu	ed by	(Sig	natur	ıre)		Rece	lved	by: (Received by: (Signature)	ture)			Dat	Date/Time	e
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Work Order No: 1234 S

	lexas	PARCAT LOUISIANA; NECAT Lexas				l
Job#:		Accreditations Required (See note):			กment Testing South Centr	ıment Tes
Page 1 of 1	New Mexico	jessica.kramer@eurofinset.com	jes	-		Ving
Л1	Cata LOLL	Kramer Jessica	Kram	Phone:	Hation (Sub Contract Lab)	iacion
	880-12345 Chain of Custody	Lab PM: 880-12	Lab	Sampler		
Environment Testing America			Citating Custody Record	0,0	Corrected Temp:	9701 4-5440
ofins			Chain of Custody	ID:HOU-323	lemp. IR ID:HOU-323 C/F-+0 2	a Ave
					I	/lidland



Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12345-1

SDG Number: 32.08518, -103.5452

List Source: Eurofins Midland Login Number: 12345 List Number: 1

Creator: Rodriguez, Leticia

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

Released to Imaging: 9/9/2022 9:51:35 AM

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 880-12345-1

SDG Number: 32.08518, -103.5452

Login Number: 12345 **List Source: Eurofins Houston** List Number: 2

List Creation: 03/26/22 01:09 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.	False	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	17.0
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Eurofins Midland

Released to Imaging: 9/9/2022 9:51:35 AM

<6mm (1/4").



APPENDIX E

NMOCD Notifications

From: Beauvais, Charles R
To: Kalei Jennings

Subject: FW: (Extension Request) Red Bull 35 Federal 001H (NAPP2126444907) 09-03-2021

Date: Thursday, April 28, 2022 3:43:54 PM

Attachments: <u>image001.png</u>

[**EXTERNAL EMAIL**]

FYI

From: Beauvais, Charles R

Sent: Thursday, April 28, 2022 2:43 PM

To: EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Hamlet, Robert, EMNRD

<Robert.Hamlet@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Fejervary Morena, Gustavo A

<G.Fejervary@conocophillips.com>

Subject: (Extension Request) Red Bull 35 Federal 001H (NAPP2126444907) 09-03-2021

To Whom It May Concern,

COP is requesting an extension of the current April 30, 2022 deadline for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Red Bull 35 Federal 001H (Incident Number NAPP2126444907). The release was discovered on September 3, 2021. Site assessment and delineation have been completed. Labs received this week. Our next course of action will be to drill depth to water borings and begin working on the remediation work plan submittal. COP request a three-month extension until July 29, 2022.

Respectfully,

Charles R. Beauvais II

Senior Environmental Engineer | Environmental Operations | ConocoPhillips (M) 575-988-2043

Charles.R.Beauvais@conocophillips.com

Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.



From: OCDOnline@state.nm.us

To: Kalei Jennings

Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 129705

Date: Tuesday, August 2, 2022 3:09:44 PM

[**EXTERNAL EMAIL**]

To whom it may concern (c/o Kalei Jennings for COG OPERATING LLC),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2126444907, for the following reasons:

• Remediation Plan Denied. The depth to groundwater has not been adequately determined. When nearby wells are used to determine depth to groundwater, the wells should be no further than ½ mile away from the site, and data should be no more than 25 years old, and well construction information should be provided in the submission. The responsible party may choose to remediate to the most stringent levels listed in Table 1 of 19.15.29 NMAC in lieu of drilling to determine the depth to groundwater. Release has not been sufficiently addressed to the most stringent criteria. Please resubmit a revised Remediation Plan by September 2, 2022.

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 129705.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer Nobui@state.nm.us

New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, NM 87505



APPENDIX F

Final C-141

32.08518

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Conoco Phillips``	OGRID	
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688-9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2126444907
Contact mailing address	600 West Illinois Avenue, Midlar	nd, Texas 79701	

Location of Release So	ource	
Longitude	-103.5452	

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

Site Name	Red Bull 35 Federal 001	Site Type	Tank Battery
Date Release Discovered	September 3, 2021	API# (if applicable)	30-025-34015

Unit Letter	Section	Township	Range	County
K	35	25S	33E	Lea

Surface Owner: State Federal Tribal Private (Name: Intrepid Potash - New Mexico)

Nature and Volume of Release

Material	(s) Released (Select all that apply and attach calculations or specific	justification for the volumes provided below)
Crude Oil	Volume Released (bbls) 0.1	Volume Recovered (bbls) 0
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		
	used by a release from the flare. red due to the fire burning off and standing	g fluid. The release resulted in a flare fire

Received by OCD: 9/1/2022 2:56:30 PMM Form C-141 State of New Mexico Page 2 Oil Conservation Division

73	10.0		C A A A
Page.	17/1	COO 1	1334
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Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

Was this a major	If YES, for what reason(s) does the resp	ponsible party consider this a major release?
release as defined by	The release involved a fire.	
19.15.29.7(A) NMAC?		
Yes No		
If YES, was immediate n	otice given to the OCD? By whom? To	whom? When and by what means (phone, email, etc)?
		via e-mail September 3, 2021 at 6:40 pm to
ocd.enviro@state.n	m.us.	
	Initial	Response
The responsible	party must undertake the following actions immedia	ately unless they could create a safety hazard that would result in injury
		!
The source of the rele	ease has been stopped.	
■ The impacted area ha	as been secured to protect human health a	nd the environment.
Released materials ha	ave been contained via the use of berms of	r dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed	and managed appropriately.
If all the actions describe	d above have <u>not</u> been undertaken, explai	n why:
Per 19.15.29.8 B. (4) NM	IAC the responsible party may commenc	e remediation immediately after discovery of a release. If remediation
has begun, please attach	a narrative of actions to date. If remedi-	al efforts have been successfully completed or if the release occurred
within a lined containmen	nt area (see 19.15.29.11(A)(5)(a) NMAC	, please attach all information needed for closure evaluation.
		ne best of my knowledge and understand that pursuant to OCD rules and
		otifications and perform corrective actions for releases which may endanger e OCD does not relieve the operator of liability should their operations have
failed to adequately investig	ate and remediate contamination that pose a t	hreat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance of and/or regulations.	f a C-141 report does not relieve the operator	of responsibility for compliance with any other federal, state, or local laws
	ny N. Esparza	Title: HSE Administrative Assistant
1 I med Ivanik	ny N. Esparza	
Signature:	_	
email: besparza@)concho.com	Telephone: (432) 221-0398
OCD Only		
Received by: Ramona N	Marcus	Date: 9/21/2021

L48 Spill Volume Estimate Form

Released to Imaging: 9/9/2022 9:51:35 AN

Received by OCD: 9/21/2021 ut 2:3 2:30 PM ederal 1H

Asset Area: DBEN

Asset Area: DBEN

Release Discovery Date & Time: 9/3/2021 6:00AM

Release Type: Oil

Provide any known details about the event. Vessel swamped out causing fluid to go out flare

				Control of the Contro	Manager and the state of the state of							
					Sp	ill Calculation	- On Pad Surfa	ce Pool Spill				
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	10.0	10.0	0.10	4	100.000	0.002	0.037	0.000	0.037			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I	7		0/01/0001	45 20 D34	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			_
Relegised to	Imag	ing:	9/21/2021 4	:43:39 PM	0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
								Total Volume Release:	0.037			

NAPP2126444907

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

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

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

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

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

CONDITIONS

Action 50656

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	50656
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	9/21/2021

	Page 231 of 2.	34
Incident ID	NAPP2126444907	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)			
Did this release impact groundwater or surface water?				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No			
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No			
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No			
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No			
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No			
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No			
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No			
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No			
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No			
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data				
☐ Data table of soil contaminant concentration data ☐ Depth to water determination ☐ Determination of water sources and significant watersources within 14 miles of the lateral extents of the release				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs				
				
Laboratory data including chain of custody				

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

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Incident ID	NAPP2126444907
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	ifications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name:Charles Beauvais	Title:Senior Environmental Engineer
Signature: Charles R. Beauvais 19	Date:09/01/2022
email:Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043
OCD Only	
Received by:Jocelyn Harimon	Date: 09/01/2022

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Incident ID	NAPP2126444907	
District RP		
Facility ID		
Application ID		

Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation poir ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29 ☑ Proposed schedule for remediation (note if remediation plan tires) 	12(C)(4) NMAC			
Deferral Requests Only: Each of the following items must be co	nfirmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around p deconstruction.	production equipment where remediation could cause a major facility			
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health, the environment, or groundwater.				
The least of the decision of the least of th	to the last of the last selection of the COD			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name:Charles Beauvais	Title:Senior Environmental Engineer			
Signature: Charles R. Beauvais 99	Date:09/01/2022			
email:Charles.R.Beauvais@conocophillips.com	Telephone:575-988-2043			
OCD Only	09/02/2022			
Jocelyn Harimon Received by:	Date:			
☐ Approved with Attached Conditions of	Approval Denied Deferral Approved			
Signature: Jannifer Nobili	Date: 09/09/2022			

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

CONDITIONS

Action 140279

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	140279
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
jnobui	Revised Remediation Plan Approved.	9/9/2022