WSP USA

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

March 17, 2022

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

RE: Remediation Work Plan Azores Federal Com 004H Incident Number NAPP2124346388 Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of COG Operating, LLC (COG), presents the following Remediation Work Plan (Work Plan) detailing site assessment activities completed to date and proposing additional remedial actions to address the impacted soil resulting from a release at the at the Azores Federal Com 004H (Site) in Unit N, Section 29, Township 24 South, Range 32 East, in Lea County, New Mexico (Figure 1).

RELEASE BACKGROUND

On August 22, 2021, corrosion caused a pinhole in the flow line, resulting in the release of approximately 0.324 barrels (bbls) of crude oil and 6.153 bbls of produced water into the adjacent pasture. No released fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on August 31, 2021. The release was assigned Incident Number NAPP2124346388.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on a recent soil boring drilled for determination of regional groundwater depth. During February 2022, WSP installed a soil boring (BH01) within 0.5 miles of the Site utilizing a truck-mounted hollow-stem auger rig. Soil boring BH01 was drilled to a depth of 105 feet bgs. A WSP geologist logged and described soils continuously. No moisture or groundwater was encountered during drilling activities. The borehole lithologic/soil sampling log is included in Attachment 1. The location of the borehole is approximately 240 feet northwest of the site and is depicted on Figure 1. The borehole was left open for over 72 hours to allow for potential slow infill of groundwater. After the 72-hour waiting period without observing groundwater, it was confirmed

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District I Page 2

that groundwater beneath the Site is greater than 105 feet bgs. The borehole was properly abandoned with drill cuttings and hydrated bentonite chips.

The closest continuously flowing water or significant watercourse to the Site is an emergent palustrine, located approximately 1.1 miles northeast of the Site. The Site is greater than 200 feet of a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

CLOSURE CRITERIA

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

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

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

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 7, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected three preliminary assessment soil samples (SS01 through SS03) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach[®] chloride QuanTab[®] test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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)

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District I Page 3

procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (USEPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following USEPA Method 8015M/D; and chloride following USEPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS01 through SS03 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria and/or the reclamation standards. Based on visible observations and laboratory analytical results for preliminary samples SS01 through SS03, additional remediation activities were warranted.

While at the Site, WSP personnel observed a potential second release approximately 40 feet west of the subject Azores Fed #004H release location. The second release extent measured approximately 1,304 square feet and traveled 25 feet from the lease road into the adjacent pasture. The release extent was mapped utilizing a handheld Global Positioning System (GPS) unit and is depicted on Figure 2. WSP completed field screening of surface soil within the potential release extent, using a PID and Hach[®] chloride QuanTab[®] test strips. Field screening results indicated that TPH concentrations were elevated. The release appeared to be from the same flow line as the Azores Federal Com 004H release, but a separate occurrence. Based on visible staining and field screening results, additional remediation activities were warranted.

DELINEATION SOIL SAMPLING AND ANALYTICAL RESULTS

On October 8, 2021, WSP personnel returned to the Site to complete delineation activities. Five potholes (PH01 through PH05) were advanced via backhoe within the release extents to delineate the vertical extent of impacted soil. Potholes PH01 through PH03 were advanced via backhoe within the eastern release extent and potholes PH04 and PH05 were advanced within the western release extent. The potholes were advanced to a maximum depth of 16 feet bgs. Delineation soil samples were collected from the potholes at depths ranging from 1-foot bgs to 16 feet bgs. The delineation soil samples were field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach[®] chloride QuanTab[®] test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 1. The delineation pothole soil samples were collected, handled, and analyzed as described above and submitted to Eurofins in Carlsbad, New Mexico. The release extents and delineation soil sample locations are depicted on Figure 3. Photographic documentation was completed during the Site assessment and a photographic log is included in Attachment 2.

Laboratory analytical results for the delineation soil samples collected from potholes PH01 through PH05 indicated that TPH-GRO/TPH-DRO, TPH, and chloride concentrations exceeded the Site Closure Criteria and/or the reclamation standards at depths ranging from 1-foot to 8 feet bgs in the eastern release area and 1-foot to 7 feet bgs in the western release area. The terminal depth sample in each pothole was below 600 mg/kg for chloride and 100 mg/kg for TPH. The

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District I Page 4

analytical results are summarized on Table 1 and laboratory analytical reports are included in Attachment 3.

Based on the laboratory analytical results, the impacted soil was successfully defined. Additionally, the stained area west of the reported release identified during initial site assessment activities was confirmed as a historical nonreportable release, potentially from the same flow line. COP plans to address both releases at the same time.

PROPOSED REMEDIATION WORK PLAN

An estimated 975 cubic yards of impacted soil is present within the subsurface at the Site. WSP and COP propose to excavate the impacted soil in the release areas to depths ranging from 4 feet to 8 feet bgs. Excavation activities will proceed until the final excavation samples confirm compliance with the Site Closure Criteria and with the reclamation standards for samples collected in the top four feet of the subsurface. The impacted soil will be disposed of at a licensed disposal facility.

Following removal of impacted soil, 5-point composite confirmation samples will be collected from the sidewalls and floors of the excavations. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The composite samples will represent a maximum 200 square foot sampling area. The excavation soil samples will be collected and handled following the same procedures as described above and analyzed at Eurofins in Carlsbad, New Mexico. Once COP has confirmed all impacted soil has been successfully removed, the excavation will be backfilled with material purchase locally and recontoured to match pre-existing site conditions. The disturbed pasture areas will be re-seeded with an approved BLM seed mixture.

COP anticipates beginning remediation within 90 days of receipt of the approved remediation work plan. A final report requesting closure will be submitted within 30 days of receipt of final laboratory analytical results. The Form C-141 requesting approval of this work plan is included in Attachment 4.

If you have any questions or comments, please do not hesitate to contact Ms. Aimee Cole at (720) 384-7365.

Sincerely,

WSP USA Inc.

Kalei Jannings

Amie Cale



District I Page 5

Kalei Jennings Consultant, Environmental Scientist Aimee Cole Sr. Consultant, Environmental Scientist

cc: Charles Beauvais, COG Operating, LLC Bureau of Land Management

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations
- Table 1Soil Analytical Results
- Attachment 1 Lithologic / Soil Sampling Logs
- Attachment 2 Photographic Log
- Attachment 3 Laboratory Analytical Reports
- Attachment 4 Final C-141

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Table 1

Soil Analytical Results Azores Federal Com 004H Incident Number NAPP2124346388 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 C	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
Preliminary Soil Sa	mples									
SS01	09/07/2021	0-0.5	0.0108	0.076	17,000	456	<250	17,456	17,500	9,010*
SS02	09/07/2021	0-0.5	< 0.00202	0.0536	25,300	348	<249	25,648	25,600	745*
SS03	09/07/2021	0-0.5	0.00661	0.0729	13,900	410	<249	14,310	14,300	643*
Delineation Soil Sar	nples									
PH01	10/08/2021	1	0.251	9.46	4,700	915	<49.9	5,615	5,620	428*
PH01A	10/08/2021	3	0.0303	10.9	4,500	1,070	<49.8	5,570	5,570	655*
PH01B	10/08/2021	6	0.0223	50.9	5,310	1,100	858	6,410	7,270	911
PH01C	10/08/2021	8	0.0217	20.5	2,720	562	<50.0	3,282	3,280	1,870
PH01D	10/08/2021	11	< 0.00201	0.0799	256	130	<50.0	386	386	375
PH01E	10/08/2021	14	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	152
PH02	10/08/2021	1	0.0977	14.7	5,050	1,040	941	6,090	7,030	320*
PH02A	10/08/2021	2	0.00800	10.6	4,330	868	753	5,198	5,950	1,140*
PH02B	10/08/2021	3	< 0.00200	< 0.00399	177	<49.9	85.7	177	263	202*
PH02C	10/08/2021	4	< 0.403	< 0.806	148	<50.0	50.4	148	198	107
PH02D	10/08/2021	5	< 0.00199	< 0.00398	61.2	<50.0	<50.0	<50.0	61.2	32.2
PH03	10/08/2021	1	0.0165	14.7	4,880	1,090	763	5,970	6,730	918*
PH03A	10/08/2021	3	0.103	16.7	4,780	1,060	799	5,840	6,640	4,420*
PH03B	10/08/2021	6	< 0.00199	0.0823	9,320	3,310	1,250	12,630	13,900	9,070
PH03D	10/08/2021	9	< 0.00198	0.0408	315	<49.9	<49.9	315	315	521
PH03E	10/08/2021	16	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	140

Table 1

Soil Analytical Results Azores Federal Com 004H Incident Number NAPP2124346388 Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
PH04	10/08/2021	1	< 0.00199	0.0947	1,850	67.3	279	1,917	2,200	469*
PH04A	10/08/2021	2	< 0.00199	0.170	2,440	119	348	2,559	2,910	1,200*
PH04B	10/08/2021	3	< 0.00199	1.08	2,530	392	338	2,922	3,260	732*
PH04C	10/08/2021	4	< 0.00200	0.107	3,840	177	529	4,017	4,550	69.0
PH04D	10/08/2021	8	< 0.00198	< 0.00397	65.7	<49.9	<49.9	65.7	65.7	18.0
PH05	10/08/2021	1	0.00313	30.3	4,410	855	<50.0	5,265	5,270	43.3*
PH05A	10/08/2021	2	0.0231	21.5	4,160	740	<50.0	4,900	4,900	110*
PH05B	10/08/2021	3	0.187	43.3	6,380	1,320	1,000	7,700	8,700	321*
PH05C	10/08/2021	4	0.00510	0.598	5,770	369	<49.8	6,139	6,140	187
PH05D	10/08/2021	7	0.00615	0.475	1,030	<50.0	132	1,030	1,160	1,020
PH05E	10/08/2021	10	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	514

Notes:

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

* - indicates sample was collected in area to be reclaimed after remediation is complete;

closure criteria for chloride concentration in the top 4 feet of soil is 600 mg/kg

BH or PH Name: BH01 Date: 2-9-2021 Site Name: Azores Fed #4H RP or Incident Number: NAPP2124346388 WSP Job Number: 31402909.130 Method: Hollow Stem A.r Rotory LITHOLOGIC / SOIL SAMPLING LOG Logged By: E Lat/Long: 32.18139, -103.6989 Field Screening: N/A Hole Diameter: Total Depth: 05 Comments: lepth to water boring Lithology Remarks Unl USCS/Rock Symbol Staining Moisture Content Chloride (ppm) Sample # Sample Vapor (ppm) Depth Lithology/Remarks Depth (ft bgs) (ft bgs) 1 Soft, Formin 151.4 -SAND, Fine - Medium grain, Silty, 5M poorly graded, dry, Redelish Brown, 2 3 Abundant coliche grevel, Trace Clay, 4 Low plasticity , cohesive. No stain, 5 SAA/ But truce caliche gravel 6 (Same as above) 7 8 9 - SAA/But color change to Light brown, 10 11 12 13 14 15 SAA 16 17 18 19 SAA 20 21 22 23 24 SAA But Abunclant Caliche 25

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Page 15 of 286

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Page 16 of 286

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Comm	ents:									-	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litho	ology/Re	emarks
D	509 565	2,749 2,620	Y Y	PH01	1	0 1 2	SP		eddish brown, poorly n staining, strong odd		, fine-very fine grain, dark
D	761	1839	Y	PH01A	3	3	SP	SAA			
D	1,545		Y		-	4					
D	1,344	2,233	Υ		-	5					
D	1,159	1,977	Υ	PH01B	6	6	SP	SAA			
D	1,344	1,954	Υ		-	7					
D	2,352	1,744	Y	PH01C	8	8	SP	SAA, les	s staining.		
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Control Constant Dire Monie: Access Federal Constant Dire Monie: Access Federal Constant LITHOLOGIC / SOIL SAMPLING LOG Lagend By: F5 Method: Bankhoe Tatk.com; Sampling Constant; Control Constant Control Constant Tatk.com; Sampling Constant; Control Constant Tatk.com; Sampling Constant; Control Constant Tatk.com; Sampling Constant; Tatk.com; Tatk.com; <th>V</th> <th></th> <th></th> <th>١</th> <th></th> <th>WS</th> <th>P USA</th> <th></th> <th></th> <th>BH or PH Name: PH02</th> <th>Date: 10/08/2021</th> <th></th>	V			١		WS	P USA			BH or PH Name: PH02	Date: 10/08/2021		
Carlsbad, New Mexico. 88220 RP or Incident Number NAPP2124346388 WSP Job Number: 31402909.130 Task 02 LattLong: LattLong: Field Screening: Hole Diameter: Total Depth: Z.1811872, -103.6989353 Depth (horide, PID N/A Of the diameter: Total Depth: Total Depth: Total Depth Total Depth Of the diameter: Total Depth: Total Depth Of the diameter: Total Depth: Total Depth Of the diameter: Total Depth Total Depth Of the diameter: Total				2	5	08 West 9	Stevens S	Street		Site Name: Azores Federal	Com 004H		
LITHOLOGIC / SOIL SAMPLING LOG Logged By: FS Method: Backhoe Lat/Long: Total Depth: 32.1811872, -103.6989353 Field Screening: Chloride, PID N/A Total Depth: 23.1811872, -103.6989353 Field Screening: Chloride, PID N/A Total Depth: Comments: O Lithology/Remarks 9 Colspan="4">Colspan="4">Chloride, PID 9 Colspan="4">O 9 Colspan="4">Colspan="4">Chloride, PID 9 Colspan="4">O 9 Colspan="4">Colspan="4">Chloride, PID 9 Colspan="4">O 9 Colspan="4">O 9 Colspan="4">Colspan="4">Chloride, PID 9 Colspan="4">O 11 SP SAND, reddish brown, poorly graded, fine-very fine grain, dark brown staining, strong odor. D 1,248 1,735 Y PH02A 2 2 SP SAA D 263 246.7 Y PH02B 3 3 SP SAA D 263					Carl	sbad, Ne	w Mexico	88220		RP or Incident Number NAPP	2124346388		
Lat/Long: 32.1811872, -103.6989353 Total Depth: 7' Total Depth: Chloride, PID N/A Total Depth: 7' Comments: N/A Total Depth: 7' N/A Total Depth: 7' N/A Total Depth: 7' Of the Sender Structure Total Depth: 7' N/A Total Depth: 7' N/A Total Depth: 7' Of the Sender Structure Total Depth: 7' Of the Sender Structure Total Depth: 7' N/A Total Depth: 7' Of the Sender Structure Total Depth: 7' Of the Sender Structure Total Depth: 7' Of the Sender Structure Total Depth: 7' Depth (ft bgs) Depth (ft bgs) Total Depth: 7' Depth (ft bgs) Depth (ft bgs) Lithology/Remarks Depth D 10 Sender Sender Structure <th cols<="" td=""><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>WSP Job Number: 31402909</td><td>.130 Task 02</td><td></td></th>	<th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>WSP Job Number: 31402909</td> <td>.130 Task 02</td> <td></td>										WSP Job Number: 31402909	.130 Task 02	
32.1811872, -103.6989353 r VIA 7 Comments: entry of the original of the origina			LITH	OLOG	SIC / SOIL	SAMPL	ING LO	G		Logged By: FS	Method: Backhoe		
Comments: antigon tigon (M) b (f)				_									
antrisionand and any orbitba fee definitionba fee def			3.698935	3		Chloride,	PID			N/A	7'		
D4031,402YPH0211SPSAND, reddish brown, poorly graded, fine-very fine grain, dark brown staining, strong odor.D1,2481,735YPH02A22SPSAAD263246.7YPH02B33SPSAAD190286YPH02C44SPSAAD<156126.3YPH02D55SPSAA, no odor.D263780.3Y6SAA, very strong odor.D30827.6Y7CCHECALICHE, minimal odor.	Com	nonto.											
D4031,402YPH0211SPSAND, reddish brown, poorly graded, fine-very fine grain, dark brown staining, strong odor.D1,2481,735YPH02A22SPSAAD263246.7YPH02B33SPSAAD190286YPH02C44SPSAAD<156126.3YPH02D55SPSAA, no odor.D263780.3Y6SAA, very strong odor.D30827.6YY7CCHECALICHE, minimal odor.	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth	USCS/Rock Symbol		Litholog	yy/Remarks		
D 190 286 Y PH02C 4 4 SP SAA D <156							1		brow		aded, fine-very fine grain, dark	ĸ	
D 190 286 Y PH02C 4 4 SP SAA D <156	D	263	246.7	Y	PH02B	3	3	SP	SAA				
D 263 780.3 Y 6 SAA, very strong odor. D 308 27.6 Y 7 CCHE CALICHE, minimal odor.	D	190	286	Y	PH02C	4	4	SP	SAA				
D 308 27.6 Y 7 CCHE CALICHE, minimal odor.	D	<156	126.3	Y	PH02D	5	5	SP	SAA, no	odor.			
	D	263	780.3	Υ		-	6		SAA, ve	ry strong odor.			
TD @ 7 ft bgs	D	308	27.6	Y		-	7	CCHE	CALICH	E, minimal odor.			
								TD	@ 7 ft bo	IS			

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			Ŋ		WS	P USA			BH or PH Name: PH03	Date: 10/08/2021
```			2	5	08 West S	Stevens S	Street		Site Name: Azores Federal	Com 004H
					lsbad, Ne	w Mexico	88220		RP or Incident Number NAPP	
							_		WSP Job Number: 31402909	
Lat/Lo	na:	LITH	OLOG	SIC / SOIL	Field Scre		G		Logged By: FS Hole Diameter:	Method: Backhoe Total Depth:
	19. 1 <b>1760, -10</b>	3.699011	6		Chloride,				N/A	16.5'
Comm	ients:				-					-
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol		Litholog	gy/Remarks
D	1,069	1,784	Y Y	PH03	1	0 1 2	SP		eddish brown, poorly gra n staining, strong odor.	aded, fine-very fine grain, dark
D	1,915 3119	1,965 1699	ř Y	PH03A	3	3	SP	SAA, faiı	at odor	
D	6,675	1,625	Y	11100/1	-	4	0		y strong odor.	
D	9,066		Y		-	5			rt caliche transition.	
D	9,066	1,439	Y	PH03B	6	6	CCHE	CALICH	E.	
D	12,275	1,717	Y		-	7				
D	7,789	1,648	Y		-	8				
D	453	678.3	Y	PH03D	9	9	CCHE	SAA, od	or dissipating.	
D	1,159	1,125	Y		_	10				
D D	224 <179	63.5 85.7	N N			11 12		SAA, no SAA, faii		
D	<179	87	N		-	12		SAA, Tali		
D	834	383.2			-	14		SAA, str	ong odor.	
D	224	864.4	Ν			15				
D	<179	13.9	Ν	PH03E	16	16	CCHE	SAA		
				L			TD	@ 16 ft b	gs	
									-	
L										

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Stand Spectral Synol       Description       LITHOLOGIC / SOIL SAMPLING LOG     Light on Market Market Com Defit       Statution       Statution       Definition       Definition       Order Statution       VSP Job Name Access Enderation Tax 02       Statution       Definition       Prode Statution       Order Statution       VSP Job Name Access Enderation Tax 02       Statution       Definition       Order Statution       Order Statution       VSP Job Name Access Enderation Tax 02       Order Statution       Definition     Order Statution       Order Statution       VSP Job Name Access Enderation Tax 02       Order Statution       Order Statution       Order Statution       Order Statution       Order Statution       Order Statution     Order Statut				١		WS	P USA			BH or PH Name: <b>PH04</b>	Date: 10/08/2021
RP or Incident Number NAPP2124346388       WSP Job Number: 3402090.130 Task 02       Litthologic / Soll SAMPLING LOG     Logged By: FS     Method: Backhoe       LatiLang: 22.1811741, -103.6995466     Teled Screening: Chloride, PID     NA     Total Depth: 12       Comments:       age for factore for the section       Method: Backhoe       LatiLang: Comments:       Total Depth: 12       Optic for				2	5	08 West S	Stevens S	Street		Site Name: Azores Federal Cor	n 004H
Lithologic / Soil SAMPLING LOG     Logged By: FS     Method: Backhoe       Lat/Long: 221811741,103.6995486     Field Screening: Chloride, PID     Hole Diameter: N/A     Total Depth: 12*       Comments:     0     0     0     0     0     0       0     0     0     0     0     0     0     12*       Comments:     0     0     0     0     0     12*     12*       0     0     0     0     0     0     0     12*       0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0     0						sbad, Ne	w Mexico	88220		RP or Incident Number NAPP21	24346388
Lat/Long: 22.1811741, 103.6995486     Field Screening: Chloride, PID     Hole Diameter: N/A     Total Depth: 12       99 199 00 00 00 00 00 00 00 00 00 00 00 00 0										WSP Job Number: 31402909.13	0 Task 02
32.1811741,-103.6995486     Chloride, PID     N/A     12'       Comments:     99 Ged by Ged b			LITH	OLOG	SIC / SOIL			G			
Comments:     P     Comments:     Commen			3.699548	6							
D   672   429.8   N   PH04   1   1   SP   SAND, reddish brown, poorly graded, fine-very fine grain, strong odor.     D   1,607   607.3   N   PH04A   2   2   SP   SAA     D   946   790.2   N   PH04B   3   3   SP   SAA     D   946   790.2   N   PH04C   4   4   SP   SAA     D   <151				-		onionae, i					
D   672   429.8   N   PH04   1   1   SP   SAND, reddish brown, poorly graded, fine-very fine grain, strong odor.     D   1,607   607.3   N   PH04A   2   2   SP   SAA     D   946   790.2   N   PH04B   3   3   SP   SAA     D   946   790.2   N   PH04C   4   4   SP   SAA     D   <151	Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Depth	Depth (ft bgo)	USCS/Rock Symbol		Lithology/I	Remarks
D   1,607   607.3   N   PH04A   2   2   SP   Strong odor.     D   946   790.2   N   PH04B   3   3   SP   SAA     D   <151							0				
D   1,607   607.3   N   PH04A   2   2   SP   SAA     D   946   790.2   N   PH04B   3   3   SP   SAA     D   <151	D	672	429.8	Ν	PH04	1	1	SP			ed, fine-very fine grain,
D   <151	D	1,607	607.3	Ν	PH04A	2	2	SP		,	
D   <151	D	946	790.2	Ν	PH04B	3	3	SP	SAA		
D<151	D	<151	502.7	Ν	PH04C	4	4	SP	SAA		
D   <151	D	<151	422.6	Ν		-	5				
D   <151	D	<151	1,213	Ν		-	6	CCHE	CALICHE	E, very strong odor.	
D   190   337.8   N   9     D   <151	D	<151	1,271	Ν		-	7				
D   <151	D	<151	96.2	Ν	PH04D	8	8	CCHE			
D <151	D	190	337.8	Ν		-	9				
D 224 59.3 N 12 CCHE moderate-well consolidated.	D	<151	267	Ν		-	10				
	D	<151	60.8	Ν		-	11				
TD @ 12 ft bgs	D	224	59.3	Ν		-	12	CCHE	moderate	e-well consolidated.	
								TD	@ 12 ft bo	js	

			Ν		WS	SP USA			BH or PH Name: <b>PH05</b>	Date: 10/08/2021
				5	08 West 9	Stevens S	Street		Site Name: Azores Federal Com	n 004H
				Carl	sbad, Ne	w Mexico	88220		RP or Incident Number NAPP212	4346388
									WSP Job Number: 31402909.130	) Task 02
		LITH	OLOC	SIC / SOIL	SAMPL	ING LO	G		Logged By: FS	Method: Backhoe
Lat/Lor		3.699657	20		Field Scre				Hole Diameter:	Total Depth:
Comme		3.099037	0		Chloride,	PID			N/A	10'
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		Lithology/F	Remarks
						0				
D	<151	2,133	Y	PH05	1	1	SP		eddish brown, poorly grade dark stainging, strong odor.	
D	190	1,808	Υ	PH05A	2	2	SP	SAA	5 5, 5	
D	498	1,835	Y	PH05B	3	3	SP	SAA		
D	263	868.3	Υ	PH05C	4	4	SP	SAA		
D	<151	973.2	Y		-	5	SP			
D	1,607	1,364	Ν		-	6	SP	Transitio	n to caliche.	
D	352	1,191	Ν	PH05D	7	7	SP	Transitic	n to caliche.	
D	5,700	1,071	Ν		-	8	CCHE	CALICH	E.	
D	1,024	129.2	N		-	9	CCHE			
D	448	37.9	Ν	PH05E	10	10	CCHE			
							TD	@ 10 ft b	gs	

# wsp

Photo GRAPHIC LOG     COG Operating, LLC   Azores Federal Com 004H Lea County, New Mexico   NAPP2124346388     Photo No.   Date September 7, 2021   September 7, 2021   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Operation of east release extent taken during initial site assessment assigned incident NAPP2124346388.   Date September 7, 2021					
Lea County, New Mexico   Photo No. Date   1 September 7, 2021   Photo of east release extent taken during initial site assessment assigned incident Image: Colspan="2">Image: Colspan="2" Image: Colspan="2" Imag				PHOTOGRAPHIC LOG	
Photo No. Date   1 September 7, 2021   Photo of east release extent taken during initial site assessment assigned incident Image: Construction of the second sec	COG Operati	ng, LLC		Azores Federal Com 004H	NAPP2124346388
1   September 7, 2021     Photo of east relation of east relation during initial site assessment assigned incident   Image: Constant of the second of th				Lea County, New Mexico	
1   September 7, 2021     Photo of east relation of east relation during initial site assessment assigned incident   Image: Constant of the second of th					
I 2021   Photo of east release extent taken during initial site assessment assigned incident Image: Construction of the second se	Photo No.	Date			
Photo of east release extent taken during initial site assessment assigned incident	1	Septemb	er 7,		
during initial site assessment assigned incident	1	2021		+	
assigned incident	Photo of east rel	ease extent	taken		
	during initial	site assessm	ent		
NAPP2124346388.	assigned	l incident			1
	NAPP21	24346388.			
				John Laster V. D	A CANNEL S
					Later -
				A STANDARD AND A SALE	S. A. L. MALLING
				And the Constant of theme	
					A CALLER AND A
				A BORDER MARTIN PAR	- AND IN ARE IN



# wsp

		PHOTOGRAPHIC LOG		
COG Operating, LLC		Azores Federal Com 004H	NAPP2124346388	
		Lea County, New Mexico		
Photo No.	Date			
Photo No.	<b>Date</b> September 7,			

Photo of west historical nonreportable release extent identified during initial site assessment.



Photo No.	Date
1 11010 110.	September 7,
4	2021
	est historical
	e release extent
identified du	ring initial site
asses	sment.

# wsp

	PHOTOGRAPHIC LOG	
COG Operating, LLC	Azores Federal Com 004H	NAPP2124346388
	Lea County, New Mexico	



Photo No.	Date
6	October 8, 2021
	nole taken during on activities.

## 200 1 2 3 4 5 6 7 8 9 10 11 12 13

🔅 eurofins

# Environment Testing America

# ANALYTICAL REPORT

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

### Laboratory Job ID: 890-1236-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Federal Com 004H

### For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 9/15/2021 1:42:52 PM

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

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

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

Visit us at: www.eurofinsus.com/Env Released to Imaging: 4/27/2022 11:07:44 AM

LINKS

Review your project results through

Total Access

**Have a Question?** 

Ask-

The

Expert

SDG: 31402909.130

Page 30 of 286

## **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	20

	Definitions/Glossary		
Client: WSP L	JSA Inc. Azores Federal Com 004H	Job ID: 890-1236-1 SDG: 31402909.130	
		306.31402909.130	
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO	Α		
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			4
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		4
DER	Duplicate Error Ratio (normalized absolute difference)		

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"

**Dilution Factor** 

MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin)

Most Probable Number MPN MQL Method Quantitation Limit NC Not Calculated

Dil Fac

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

QC Quality Control RER Relative Error Ratio (Radiochemistry) RL Reporting Limit or Requested Limit (Radiochemistry)

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

TEF Toxicity Equivalent Factor (Dioxin)

Toxicity Equivalent Quotient (Dioxin) TEQ TNTC Too Numerous To Count

Eurofins Xenco, Carlsbad

Job ID: 890-1236-1 SDG: 31402909.130

#### Job ID: 890-1236-1

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-1236-1

#### Receipt

The samples were received on 9/9/2021 8:58 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7758 and analytical batch 880-7857 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: SS01 (890-1236-1) and SS02 (890-1236-2). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

#### HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-7767 and analytical batch 880-7831 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Project/Site: Azores Federal Com 004H

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

0.0108

RL

0.00202

Unit

mg/Kg

D

Job ID: 890-1236-1 SDG: 31402909.130

### **Client Sample ID: SS01**

Client: WSP USA Inc.

Sample Depth: 0 - 0.5

Analyte

Benzene

Date Collected: 09/07/21 10:55 Date Received: 09/09/21 08:58

## Lab Sample ID: 890-1236-1

Matrix: Solid

Dil Fac

1

5

1	
l Fac	
5	
5	
5	

Matrix: Solid

Prepared	Analyzed
09/14/21 09:00	09/14/21 17:49

				00				
Toluene	0.0211		0.00202	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
Ethylbenzene	0.0124		0.00202	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
o-Xylene	0.0317		0.00202	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
Xylenes, Total	0.0317		0.00404	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
Total BTEX	0.0760		0.00404	mg/Kg		09/14/21 09:00	09/14/21 17:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130			09/14/21 09:00	09/14/21 17:49	1
1,4-Difluorobenzene (Surr)	75		70 - 130			09/14/21 09:00	09/14/21 17:49	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	456		250	mg/Kg		09/10/21 09:12	09/11/21 09:33	5
Diesel Range Organics (Over C10-C28)	17000		250	mg/Kg		09/10/21 09:12	09/11/21 09:33	5
Oll Range Organics (Over C28-C36)	<250	U	250	mg/Kg		09/10/21 09:12	09/11/21 09:33	5
Total TPH	17500		250	mg/Kg		09/10/21 09:12	09/11/21 09:33	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			09/10/21 09:12	09/11/21 09:33	5
o-Terphenyl	98		70 - 130			09/10/21 09:12	09/11/21 09:33	5
– Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9010	F1	49.7	mg/Kg			09/15/21 02:24	10
—								

#### **Client Sample ID: SS02** Date Collected: 09/07/21 11:00 Date Received: 09/09/21 08:58

Sample Depth: 0 - 0.5

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00202	U	0.00202	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
Ethylbenzene	0.0116		0.00202	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
m-Xylene & p-Xylene	0.0101		0.00403	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
o-Xylene	0.0319		0.00202	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
Xylenes, Total	0.0420		0.00403	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
Total BTEX	0.0536		0.00403	mg/Kg		09/14/21 09:00	09/14/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	182	S1+	70 - 130			09/14/21 09:00	09/14/21 18:09	1
1,4-Difluorobenzene (Surr)	91		70 - 130			09/14/21 09:00	09/14/21 18:09	1

Lab Sample ID: 890-1236-2

Project/Site: Azores Federal Com 004H

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

348

25300

25600

<249 U

%Recovery Qualifier

128

102

745

95

Result Qualifier

RL

249

249

249

249

RL

5.04

Limits

70 - 130

70 - 130

Unit

mg/Kg

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

D

D

Prepared

09/10/21 09:12

09/10/21 09:12

09/10/21 09:12

09/10/21 09:12

Prepared

09/10/21 09:12

09/10/21 09:12

Prepared

09/14/21 09:00

Job ID: 890-1236-1 SDG: 31402909.130

#### **Client Sample ID: SS02**

Client: WSP USA Inc.

Sample Depth: 0 - 0.5

**Gasoline Range Organics** 

**Diesel Range Organics (Over** 

Oll Range Organics (Over C28-C36)

Analyte

(GRO)-C6-C10

C10-C28)

**Total TPH** 

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

Date Collected: 09/07/21 11:00 Date Received: 09/09/21 08:58

## Lab Sample ID: 890-1236-2

Analyzed

09/11/21 09:55

09/11/21 09:55

09/11/21 09:55

09/11/21 09:55

Analyzed

09/11/21 09:55

09/11/21 09:55

Analyzed

09/15/21 02:41

Matrix: Solid

Dil Fac

5

5

5

5

Dil Fac

5	
5	
Dil Fac	
1	
226.2	

1

#### Lab Sample ID: 890-1236-3

09/14/21 18:29

Matrix: Solid

Date Collected: 09/07/21 11:04 Date Received: 09/09/21 08:58 Sample Depth: 0 - 0.5

1,4-Difluorobenzene (Surr)

**Client Sample ID: SS03** 

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00661		0.00201	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
Ethylbenzene	0.0393		0.00201	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
m-Xylene & p-Xylene	0.0270		0.00402	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
Xylenes, Total	0.0270		0.00402	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
Total BTEX	0.0729		0.00402	mg/Kg		09/14/21 09:00	09/14/21 18:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	130		70 - 130			09/14/21 09:00	09/14/21 18:29	1

70 - 130

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	410		249	mg/Kg		09/10/21 09:12	09/11/21 10:19	5
Diesel Range Organics (Over C10-C28)	13900		249	mg/Kg		09/10/21 09:12	09/11/21 10:19	5
Oll Range Organics (Over C28-C36)	<249	U	249	mg/Kg		09/10/21 09:12	09/11/21 10:19	5
Total TPH	14300		249	mg/Kg		09/10/21 09:12	09/11/21 10:19	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			09/10/21 09:12	09/11/21 10:19	5
o-Terphenyl	87		70 - 130			09/10/21 09:12	09/11/21 10:19	5
 Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	643		4.98	mg/Kg			09/15/21 02:46	1

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

#### Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 Lab Sample ID Client Sample ID (70-130) (70-130) 880-5958-A-41-D MS Matrix Spike 116 83 880-5958-A-41-E MSD Matrix Spike Duplicate 116 85 890-1236-1 SS01 136 S1+ 75 SS02 890-1236-2 182 S1+ 91 890-1236-3 SS03 130 95 Lab Control Sample LCS 880-7758/1-A 113 73 LCSD 880-7758/2-A Lab Control Sample Dup 110 84 MB 880-7758/5-A Method Blank 77 113 Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1236-1	SS01	111	98
890-1236-2	SS02	128	102
890-1236-3	SS03	117	87
890-1237-A-1-D MS	Matrix Spike	101	100
890-1237-A-1-E MSD	Matrix Spike Duplicate	101	102
LCS 880-7730/2-A	Lab Control Sample	106	108
LCSD 880-7730/3-A	Lab Control Sample Dup	108	110
MB 880-7730/1-A	Method Blank	101	114

#### Surrogate Legend

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Prep Type: Total/NA

Page 35 of 286

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### **QC Sample Results**

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

Lab Sample ID: MB 880-7758/5-A	
11 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (	

Matrix: Solid Analysis Batch: 7857

Analysis Batch: 7857							Prep Bato	:h: 7758
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		09/14/21 09:00	09/14/21 12:20	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			09/14/21 09:00	09/14/21 12:20	1
1,4-Difluorobenzene (Surr)	77		70 - 130			09/14/21 09:00	09/14/21 12:20	1

#### Lab Sample ID: LCS 880-7758/1-A Matrix: Solid

#### Analysis Batch: 7857

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09498		mg/Kg		95	70 - 130	
Toluene	0.100	0.09272		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09436		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09544		mg/Kg		95	70 ₋ 130	

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

#### Lab Sample ID: LCSD 880-7758/2-A Matrix: Solid

Analysis Batch: 7857								p Batch	: 7758
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	8	35
Toluene	0.100	0.09796		mg/Kg		98	70 - 130	6	35
Ethylbenzene	0.100	0.09754		mg/Kg		98	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	8	35
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	8	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)			70 - 130
1,4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-5958-A-41 Matrix: Solid Analysis Batch: 7857	-D MS							Client	Prep	): Matrix Spike Type: Total/NA ep Batch: 7758
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.08777		mg/Kg		88	70 - 130	

Page 36 of 286

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA	
Prep Batch: 7758	

Prep Type: Total/NA
Client: WSP USA Inc. Project/Site: Azores Federal Com 004H Job ID: 890-1236-1 SDG: 31402909.130

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

Lab Sample ID: 880-5958-A-41-D Matrix: Solid	MS									Client	Sample ID: Prep T	: Matrix 'ype: To	
Analysis Batch: 7857												p Batch	
	Sample	Sam	ple	Spike	MS	MS					%Rec.		
Analyte	Result		•	Added	Result		ifier	Unit		D %Rec	Limits		
Toluene	<0.00199	_		0.0998	0.08007			mg/Kg			70 - 130		
Ethylbenzene	< 0.00199			0.0998	0.07502			mg/Kg		75	70 - 130		
m-Xylene & p-Xylene	< 0.00398			0.200	0.1559			mg/Kg		78	70 - 130 70 - 130		
	< 0.00398			0.0998	0.1359					81	70 - 130 70 - 130		
o-Xylene	<0.00199	UFI		0.0996	0.00000			mg/Kg		01	70 - 130		
Surrogate	MS %Recovery	MS Qual	lifior	Limits									
4-Bromofluorobenzene (Surr)	116	Quai		70 - 130									
1,4-Difluorobenzene (Surr)	83			70 - 130 70 - 130									
,, ·													
Lab Sample ID: 880-5958-A-41-E	MSD								Clier	t Sample ID			
Matrix: Solid											Prep T	уре: То	tal/N
Analysis Batch: 7857											Prep	p Batch	: 775
	Sample	Sam	ple	Spike	MSD	MSD					%Rec.		RP
Analyte	Result	Qual	ifier	Added	Result	Qual	ifier	Unit		D %Rec	Limits	RPD	Lim
Benzene	<0.00199	U		0.100	0.07857			mg/Kg		78	70 - 130	11	3
Toluene	<0.00199	U		0.100	0.07046			mg/Kg		70	70 - 130	13	3
Ethylbenzene	<0.00199			0.100	0.06374	F1		mg/Kg		64	70 - 130	16	3
n-Xylene & p-Xylene	<0.00398			0.200	0.1306			mg/Kg		65	70 - 130	18	
p-Xylene	< 0.00199			0.100	0.06920			mg/Kg		69	70 - 130	15	3
-Aylene				0.100	0.00920			my/rty		09	70 - 150	15	
		MSD		l insite									
Surrogate	%Recovery	Qual	mer	Limits									
4-Bromofluorobenzene (Surr)	116			70 - 130									
1,4-Difluorobenzene (Surr)	85			70 - 130									
lethod: 8015B NM - Diesel I	Range Or	rgan	iics (DR	O) (GC)									
Lab Sample ID: MB 880-7730/1-4	<b>^</b>									Client S	ample ID: N	Method	Blan
	•										unpic ib. i	nethou	
Matrix: Solid											Pron T		
												ype: To	tal/N
		мр	MD									ype: To p Batch	tal/N
Analysis Batch: 7723	_		MB				1114			Bernard	Prep	p Batch	tal/N : 773
Analysis Batch: 7723 Analyte		esult	Qualifier		RL		Unit		D	Prepared	Prep Analyze	p Batch	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics			Qualifier		<b>RL</b> 50.0		Unit mg/Kg	]		Prepared 09/10/21 09:12	Prep Analyze	p Batch	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		esult	Qualifier U								Prep Analyze 2 09/10/21 1	p Batch ed 11:30	tal/N : 773
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		<b>esult</b> <50.0	Qualifier U U		50.0		mg/Kg mg/Kg	)		09/10/21 09:12 09/10/21 09:12	Prep Analyze 2 09/10/21 1 2 09/10/21 1	<b>ed</b> 11:30 11:30	tal/N : 773
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)		<pre>sult &lt;50.0 &lt;50.0 &lt;50.0</pre>	Qualifier U U U		50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12	Prep Analyze 2 09/10/21 1 2 09/10/21 1 2 09/10/21 1	<b>ed</b> 11:30 11:30 11:30	tal/N : 773
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36)		<pre>esult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0</pre>	Qualifier U U U U		50.0		mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12	Prep Analyze 2 09/10/21 1 2 09/10/21 1 2 09/10/21 1	<b>ed</b> 11:30 11:30 11:30	tal/N : 773
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Total TPH	<	<pre>desult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0  MB</pre>	Qualifier U U U U MB		50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12	Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1	<b>ed</b> 11:30 11:30 11:30 11:30	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate		<pre>cesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0  mB </pre>	Qualifier U U U U	Limit	50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 <b>Prepared</b>	Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           Analyze           Analyze	ed ed 11:30 11:30 11:30 11:30 11:30 ed	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<	<pre>lesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 MB overy 101</pre>	Qualifier U U U U MB	<u>Limit</u> 70 - 1	50.0 50.0 50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 <b>Prepared</b> 09/10/21 09:12	Analyze           Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1	ed 11:30 11:30 11:30 11:30 11:30 11:30	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	<	<pre>cesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0  mB </pre>	Qualifier U U U U MB	Limit	50.0 50.0 50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 <b>Prepared</b>	Analyze           Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1	ed 11:30 11:30 11:30 11:30 11:30 11:30	tal/N : 773 Dil Fa
Matrix: Solid Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-7730/2-	%Recc	<pre>lesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 MB overy 101</pre>	Qualifier U U U U MB	<u>Limit</u> 70 - 1	50.0 50.0 50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 <b>Prepared</b> 09/10/21 09:12	Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1	ed 11:30 11:30 11:30 11:30 11:30 11:30	tal/N : 773 Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-7730/2-	%Recc	<pre>lesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 MB overy 101</pre>	Qualifier U U U U MB	<u>Limit</u> 70 - 1	50.0 50.0 50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12	Analyze           Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           12           09/10/21 1           2           09/10/21 1           2           09/10/21 1           2           1D: Lab Co	ed 11:30 11:30 11:30 11:30 11:30 11:30	tal/N : 773 Dil Fa Dil Fa
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-7730/2- Matrix: Solid	%Recc	<pre>lesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 MB overy 101</pre>	Qualifier U U U U MB	<u>Limit</u> 70 - 1	50.0 50.0 50.0 50.0 50.0 50.0 50.0		mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12	Analyze           Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           12           09/10/21 1           13           09/10/21 1           14           15: Lab Co           Prep T	ed 11:30 11:30 11:30 11:30 ed 11:30 11:30 11:30 control S Spec: To	tal/N. : 773 Dil Fa Dil Fa ampl tal/N.
Analysis Batch: 7723 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-7730/2-	%Recc	<pre>lesult &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 &lt;50.0 MB overy 101</pre>	Qualifier U U U U MB	<u>Limit</u> 70 - 1	50.0 50.0 50.0 50.0 50.0 <b>25</b> 30 730	LCS	mg/Kg mg/Kg mg/Kg	]		09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12 09/10/21 09:12	Analyze           Analyze           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           09/10/21 1           12           09/10/21 1           13           09/10/21 1           14           15: Lab Co           Prep T	ed 11:30 11:30 11:30 11:30 11:30 11:30 11:30 11:30 500000000000000000000000000000000000	tal/N. : 773 Dil Fa Dil Fa ampl tal/N.

5

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H

Job ID: 890-1236-1 SDG: 31402909.130

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

Lab Sample ID: LCS 880-77 Matrix: Solid	30/2-A						Client	Sample	ID: Lab Co Prep 1	ontrol Sa Type: Tot	
Analysis Batch: 7723										p Batch	
-			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics (Over			1000	1065		mg/Kg		107	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery		Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	108		70 - 130								
Lab Sample ID: LCSD 880-7	730/3-A					Clie	ent Sam	ple ID:	Lab Contro	I Sampl	e Dı
Matrix: Solid									Prep 1	Type: To	tal/N
Analysis Batch: 7723									Pre	p Batch	: 77;
			Spike	LCSD	LCSD				%Rec.		RF
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lir
Gasoline Range Organics			1000	980.2		mg/Kg		98	70 - 130	0	
(GRO)-C6-C10			4000	1000				400	70 100	~	
Diesel Range Organics (Over C10-C28)			1000	1083		mg/Kg		108	70 - 130	2	
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	108		70 - 130								
p-Terphenyl	110		70 _ 130								
Matrix: Solid Analysis Batch: 7723										Type: To p Batch	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added	Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
Gasoline Range Organics GRO)-C6-C10	<49.8	U	997	837.4		mg/Kg		84	70 - 130		
Diesel Range Organics (Over	<49.8	U	997	835.4		mg/Kg		84	70 ₋ 130		
C10-C28)	140										
<b>0</b>		MS	1								
Surrogate 1-Chlorooctane	% <i>Recovery</i> 101	Quanner	<i>Limits</i> 70 - 130								
p-Terphenyl	101		70 - 130 70 - 130								
	100		10 - 150								
Lab Sample ID: 890-1237-A	-1-E MSD					С	lient Sa	ample IC	): Matrix Sp	oike Dup	olica
Matrix: Solid								-		· Type: Tot	
Analysis Batch: 7723										p Batch	
	Sample	Sample	Spike	MSD	MSD				%Rec.		R
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Lir
Gasoline Range Organics	<49.8	U	999	787.6	_	mg/Kg		79	70 - 130	6	
										-	
		U	999	848.2		mg/Kg		85	70 - 130	2	
Diesel Range Organics (Over	<49.8										
Diesel Range Organics (Over		MSD									
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) <b>Surrogate</b>		MSD	Limits								
Diesel Range Organics (Over C10-C28)	MSD	MSD	Limits 70 - 130								

## **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H Job ID: 890-1236-1 SDG: 31402909.130

## Method: 300.0 - Anions, Ion Chromatography

 Lab Sample ID: MB 880-7767/1-A									Clie	nt Sample	ID: Metho	d Blank
Matrix: Solid											rep Type:	
Analysis Batch: 7831												
		МВ МВ										
Analyte	Re	esult Qua	alifier	I	RL	Uni	t	D	Prepare	d A	nalyzed	Dil Fac
Chloride	<	5.00 U		5.	00	mg/	Кg			09/1	5/21 02:07	1
 Lab Sample ID: LCS 880-7767/2-A								Clie	ent Sam	ple ID: La	b Control	Sample
Matrix: Solid										Р	rep Type: 3	Soluble
Analysis Batch: 7831												
			Sp	ke	LCS	LCS				%Rec		
Analyte			Add	ed	Result	Qualifier	Unit		D %Re	c Limits	6	
Chloride			2	50	260.5		mg/Kg		10	90 - 11	10	
 Lab Sample ID: LCSD 880-7767/3-A							CI	ient Sa	ample I	D: Lab Co	ntrol Sam	ole Dup
Matrix: Solid											rep Type:	
Analysis Batch: 7831												
-			Sp	ke	LCSD	LCSD				%Rec		RPD
Analyte			Add	ed	Result	Qualifier	Unit	I	D %Re	c Limits	s RPD	Limit
Chloride			2	50	261.1		mg/Kg		10	90 - 11	10 0	20
										Client	Sample II	D: SS01
Matrix: Solid											rep Type: 3	
Analysis Batch: 7831												
-	Sample	Sample	Sp	ke	MS	MS				%Rec		
Analyte	Result	Qualifier	Add	ed	Result	Qualifier	Unit	I	D %Re	c Limits	6	
Chloride	9010	F1	24	90	13260	F1	mg/Kg		17	1 90 - 11	10	
- Lab Sample ID: 890-1236-1 MSD										Client	Sample II	D: SS01
Matrix: Solid											rep Type:	
Analysis Batch: 7831												
-	Sample	Sample	Sp	ke	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Add	ed	Result	Qualifier	Unit	1	D %Re	c Limits	s RPD	Limit

## **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H

5

**8** 9

Job ID: 890-1236-1 SDG: 31402909.130

## GC VOA

#### Prep Batch: 7758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1236-1	SS01	Total/NA	Solid	5035	
890-1236-2	SS02	Total/NA	Solid	5035	
390-1236-3	SS03	Total/NA	Solid	5035	
MB 880-7758/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
380-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 7857					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1236-1	SS01	Total/NA	Solid	8021B	7758

890-1236-1	SS01	Total/NA	Solid	8021B	7758
890-1236-2	SS02	Total/NA	Solid	8021B	7758
890-1236-3	SS03	Total/NA	Solid	8021B	7758
MB 880-7758/5-A	Method Blank	Total/NA	Solid	8021B	7758
LCS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	8021B	7758
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7758
880-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	8021B	7758
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7758

#### GC Semi VOA

#### Analysis Batch: 7723

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1236-1	SS01	Total/NA	Solid	8015B NM	7730
890-1236-2	SS02	Total/NA	Solid	8015B NM	7730
890-1236-3	SS03	Total/NA	Solid	8015B NM	7730
MB 880-7730/1-A	Method Blank	Total/NA	Solid	8015B NM	7730
LCS 880-7730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7730
LCSD 880-7730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7730
890-1237-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	7730
890-1237-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7730

#### Prep Batch: 7730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1236-1	SS01	Total/NA	Solid	8015NM Prep	
890-1236-2	SS02	Total/NA	Solid	8015NM Prep	
890-1236-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-7730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1237-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1237-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### HPLC/IC

#### Leach Batch: 7767

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1236-1	SS01	Soluble	Solid	DI Leach	
890-1236-2	SS02	Soluble	Solid	DI Leach	
890-1236-3	SS03	Soluble	Solid	DI Leach	
MB 880-7767/1-A	Method Blank	Soluble	Solid	DI Leach	

## **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H

## HPLC/IC (Continued)

#### Leach Batch: 7767 (Continued)

HPLC/IC (Continue	ed)				
Leach Batch: 7767 (Co	ontinued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1236-1 MS	SS01	Soluble	Solid	DI Leach	
890-1236-1 MSD	SS01	Soluble	Solid	DI Leach	
analysis Batch: 7831					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1236-1	SS01	Soluble	Solid	300.0	7767
890-1236-2	SS02	Soluble	Solid	300.0	7767
890-1236-3	SS03	Soluble	Solid	300.0	7767
MB 880-7767/1-A	Method Blank	Soluble	Solid	300.0	7767
LCS 880-7767/2-A	Lab Control Sample	Soluble	Solid	300.0	7767 🖌
LCSD 880-7767/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7767
890-1236-1 MS	SS01	Soluble	Solid	300.0	7767
890-1236-1 MSD	SS01	Soluble	Solid	300.0	7767

Job ID: 890-1236-1 SDG: 31402909.130 Project/Site: Azores Federal Com 004H

5

9

Job ID: 890-1236-1 SDG: 31402909.130

## Lab Sample ID: 890-1236-1 Matrix: Solid

Lab Sample ID: 890-1236-2

Lab Sample ID: 890-1236-3

Matrix: Solid

Matrix: Solid

Date Collected: 09/07/21 10:55 Date Received: 09/09/21 08:58

**Client Sample ID: SS01** 

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	7758	09/14/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 17:49	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7730	09/10/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		5			7723	09/11/21 09:33	AM	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		10			7831	09/15/21 02:24	СН	XEN MID

#### Client Sample ID: SS02 Date Collected: 09/07/21 11:00

Date Received: 09/09/21 08:58

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	7758	09/14/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 18:09	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7730	09/10/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		5			7723	09/11/21 09:55	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 02:41	CH	XEN MID

#### Client Sample ID: SS03 Date Collected: 09/07/21 11:04

## Date Received: 09/09/21 08:58

_	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	7758	09/14/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 18:29	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7730	09/10/21 09:12	DM	XEN MID
Total/NA	Analysis	8015B NM		5			7723	09/11/21 10:19	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7767	09/10/21 14:24	СН	XEN MID
Soluble	Analysis	300.0		1			7831	09/15/21 02:46	СН	XEN MID

#### Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Project/Site: Azores Federal Com 004H

#### Laboratory: Eurofins Xenco, Midland

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

thority	Pr	ogram	Identification Number	Expiration Date
kas	NE	ELAP	T104704400-21-22	06-30-22
The following analytes are included in this the agency does not offer certification.		it the laboratory is not certil	fied by the governing authority. This list ma	ay include analytes for
the agency does not o Analysis Method	ffer certification. Prep Method	Matrix	Analyte	
0,		Matrix Solid	Analyte Total TPH	

Page 43 of 286

Job ID: 890-1236-1 SDG: 31402909.130 3 4 5 6 7 8 9

10

## **Method Summary**

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H Job ID: 890-1236-1 SDG: 31402909.130

Method	Method Description	Protocol	Laboratory	
3021B	Volatile Organic Compounds (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	

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.

#### Laboratory References:

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

Page 45 of 286

# S

Client: WSP USA Inc. Project/Site: Azores Federal Com 004H

Job ID: 890-1236-1	
SDG: 31402909.130	

Client: WSP US Project/Site: Az	SA Inc. zores Federal Com 004H					Job ID: 890-1236-1 SDG: 31402909.130	
Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Denth		
890-1236-1		Solid	09/07/21 10:55	09/09/21 08:58	Depth 0 - 0.5		
890-1236-2	SS02	Solid	09/07/21 11:00	09/09/21 08:58	0 - 0.5		
890-1236-3	SS03	Solid	09/07/21 11:04	09/09/21 08:58			5
							6
							8
							9
							12
							1

Environment Testing       Environment Testing       Marca na analyzation and a part of part o	Revised Date: 08/25/2020 Rev. 2020 2			0 2		5
Curofins     Environment Testing     Normality Structure of the TAC Products of the TAC Pro				1.9.210	Cloe Curlo	· takth
Curofins     Environment Testing     Image: TX (stil) results to the transmission of transmissi transmission of transmission of tra	e)	Received by: (Signatu	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinguished by (Signature)
Curofins         Environment Testing         Meanen X (201) 244-00, Data metros (201) 245-000         Work Order Ne: Hearen X	sd.	e enforced unless previously negotiate	urred by the client if such losses are due to not analyzed. These terms will be	ility for any losses or expenses inc ch sample submitted to Eurofins X	striment or samples consultates a rand perchase order in or r the cost of samples and shall not assume any responsib 0 will be applied to each project and a charge of \$5 for ea	Notice: Signature or trins document and reiniqui of service. Eurofins Xenco will be liable only fo of Eurofins Xenco. A minimum charge of \$85.0
Curofins         Environment Testing         Measen X (28) 304 400, Data X (28) 304 400, Data X (28) 308 200         Work Order No:           Image:         Kaller         Micro USA         Env. X (28) 304 400, Data X (28) 304 300, Data X (28) 308 200         Work Order No:         Micro VIII Solution         Non VIIII Solution         Non VIII Solution         Non VIIII Solution         Non VIIIIIIIIII         Non VIIIIIIIIIIIIIIIIIIIIIIIII	1/7470/	erms and	ob Mn I	CRA S5 AS Ba Be Cd	analyzed TCLP/SPLP 6010: 8F	Circle Method(s) and Metal(s) to be
Curofins       Environment Testing       Houses TX (2012)-00-00, Date, TX (2019)-00-00,	r TI Sn U V	K Se	Ca Cr Co Cu Fe	Al Sb As Ba Be B	8RCRA 13PPM	200.7 / 6010
Euronement Testing         Human 1X (281)/244-00, Table X, (241) 982-300         Monte X, (241) 982-300         Mont					-	
Environment Testing     Invironment Testing     Montage: Kaller U/2 million						
Euronment Testing       Housen TX (24) 20-000, Data, TX (24) 20-00, Data						
Curofins         Environment Testing         Headen, 1X (21) 904-000, Name, TX (21) 904-000, Nam					The V	
Euronment Testing Xenco       Environment Testing Xenco       Maagen Environment Testing       Maagen Environment Testing       Maagen Environment Testing       Maagen Environment Testing       Maagen Environment Testing       Mark Creation Environment Environment Testing       Mark Creation Environment Environment Testing       Mark Creation Environment Environment Testing       Mark Creation Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Environment Envi						
Euroronment Testing       Heaten 17 (24) 92-000, Data, 77 (24) 992-000, Data, 77 (24) 992-00, Data, 792-00, Data,						
Environment Testing Nanager       Housen TX (281) 204-200, Dalas, TX (281) 204-20					121 110H	6602
Curofins       Environment Testing       Houton 17 (241) 244-30, Delas, 17 (241) 982-300       Work Order No:         Manager       Kd. (2.1. (2.0.00, Dr. 11, C)       Bill to (1 datewarth 17 (243) 983-344), Luboxin, 17 (240) 983-343       Work Order No:       Page 1       Manager 17 (243) 983-343         Manager       Kd. (2.1. (2.0.00, Dr. 11, A)       Dr. 10, C)       Bill to (1 datewarth 17 (243) 983-343, Luboxin, 17 (240) 983-343       Work Order Comments         Name       32,00, No.11, A       Ditto 25,00,00       Email: Kd. (2.1. (2.0.00)       Bill to (1 datewarth 17,143) 983-343, Luboxin, 17 (240) 983-343       Work Order Comments         Name       Azores, Frafara Can Dult       Turn Around       Non       Page 11, (2.0.0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0				X	9/7 21 1100	fn2
Eurofins       Environment Testing Xenco       Housen, 1X (29) 204-200, Data, TX (24) 906-200 Heade, TX (29) 204-200, Data, TX (24) 908-334 EL Paso, TX (29) 904-303, EL-Paso, TX (29) 908-334 Frogram: USTPST   PRP  Brownfeld   Rec   s state of Project: Reporting: Level III   Ever IIII   Ever III   Ever IIII   Ever III   Ever III   Ever III   Ever I				-	9/7 ZI 1055	50
Euroring       Environment Testing       Houston 1X (23) 70-6400, Datas, 1X (24) 902-0300       Work Order No:         Manager       Kallon Uannon (X) (43) 70-6400, San Antonio, 1X (19) 908-334       En Pair, 1X (19) 908-334       Work Order No:         Namager       Kallon Uannon (X) (43) 70-6400, San Antonio, 1X (19) 908-334       En Pair, 1X (19) 908-334       Work Order Comments         Nummer       WGP USA       Enait: Kallon (different)       Dillio (different)       Number, 1X (19) 908-334       Work Order Comments         Number       Address       San Antonio, 1X (19) 908-7550, Carisbad, NN (175) 908-7109       Billio (different)       Numerics       Number, 1X (19) 100, 3 - 2603       Email: Kallon (1) (10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	Sample Comments			Cont of the test	Date Time Depth Sampled	
Curofins       Environment Testing       Houston, TX (281) 302-0300       Mared, TX (281) 302-0300       Work Order No:         Manager:       Kallon U.P. MDLAGO       Bill to: (f diffeeent)       E.P. Bao, TX (281) 302-0300       Work Order No:       Page 1, (281) 302-0300         Manager:       Kallon U.P. MDLAGO       Bill to: (f diffeeent)       Houston, TX (281) 302-0300       Work Order No:       Page 1, (280) 704-540, San Antonio, TX (280) 794-1386         Manager:       Kallon U.P. MDLAGO       Bill to: (f diffeeent)       Houston, TX (281) 302-0300       Work Order Comments         Nume:       32,000       North A SHr021       Address       Work Order Comments       Program: USTPST    PRP        Brownfields    RRC    State 21P         Number:       3140,02,000       Kall of Doll       Vork Order Comments       Program: USTPST    PRP        Brownfields    RRC    State 21P         Number:       3140,02,000       Manager:       Kall of Projett:       Reporting: Level III    PST/UST    TRRP            Number:       3140,02,000       Mone: Incover date:       Address:       Preservative         Number:       128,02,000       Mone: Incover date:       Address:       Preservative         Number:       Vas No       Orrection Factor:       None: NO       Dif         Seasorin tact:       Vas No       Orrection F	NAUH+ASCOIDIC ACIO: SAPC			EX	Corrected Temperature:	Total Containers:
Curofins       Environment Testing       Houston, 1X (23) 704-5400, Dalas, 1X (214) 902-0300       Work Order No:         Manager:       Kallen, Up, nn, nager:       Kallen, Up, nn, nager, Name       EL Paso, 1X (219) 508-334       EL Paso, 1X (219) 508-334       EL Paso, 1X (219) 508-334         manager:       Kallen, Up, nn, nager, Name       San Antonio, TX (219) 508-334       EL Paso, 1X (219) 508-334       mww.xenco.com       Page 1       Mww.xenco.co	Zn Acetate+NaOH: Zn	-	_	(E	Temperature Reading:	Yes
Curofins       Environment Testing       Houston 1X (281) 340-400. Dallas, TX (214) 980-4300. Midand, TX (219) 980-4300. Midand, TX (219) 980-4300. EL Paso, TX (219) 980-334       Work Order No:         Manager:       Kalle1. JonninGC       Bill to: (1 diferent)       +       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Na2S2O3: NaSO3	Custody		A	Correction Factor:	Yes
Curofins       Environment Testing       Houston, TX (281) 240-400, Dalas, TX (241) 902-0300       Work Order No:         Marager:       Kallel Up nn1 ngc       Bill to: (frameent)       +       +       Nork Order No:       Nork Order No:         marager:       Kallel Up nn1 ngc       Bill to: (frameent)       +       Nork Order No:       Nork Order Comments         marager:       Kallel Up nn1 ngc       Bill to: (frameent)       +       Nork Order Comments       Nork Order Comments         marager:       Kallel Up nn1 ngc       Bill to: (frameent)       +       Nork Order Comments       Nork Order Comments         marager:       Marager:       North A Struct       ddress:       +       Nork Order Comments         se:       0300 North AST 2603       Email:       Kallel L (nn) Name:       +       Nork Order Comments         se:       0100 Sate ZIP       kale of Project:       Nork Order Norder Comments       Nork Order Norder:       State of Project:       State of Project:       None: No       Dill to:       Other:       None: No       Dill         Number:       0140224024       Recorder bl 4.30m       None: No       Dill       None: No       Dill         Issame:       Fabrica the day received by 4.30pm       None: No       Dill       State of Project: <t< td=""><td>NaHSO4: NABIS</td><td></td><td></td><td><u>BC</u> A (</td><td>Thermometer ID:</td><td></td></t<>	NaHSO4: NABIS			<u>BC</u> A (	Thermometer ID:	
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Received by OCD: 3/18/2022 1:35:11 PM

9/15/2021

Page 46 of 286

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Chain of Custody

## Received by OCD: 3/18/2022 1:35:11 PM

Δ Yes Δ No	Custody Seals Intact. Custody Seal No	Relinquished by	Relinquished by	Relinquished by (Jue Curf 9.9.2)	Empty Kit Relinquished by	Deliverable Requested I, II III, IV Other (specify)	Possible Hazard Identification Unconfirmed	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 shippment 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 hipped 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 aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.						SS03 (890-1236-3)	SS02 (890-1236-2)	SS01 (890-1236-1)		Sample Identification - Client ID (Lab ID)	Site	riojeci valite Azores Federal Com 004H	Email Enail	Phone 432-704-5440(Tel)	State, Zip TX, 79701	Unity Midland	1211 W Florida Ave ,	Eurofins Xenco	Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199
		Date/Time	Date/Time:	Date/Time		Primary Deliverable Rank.		places the ownership being analyzed the sa ve signed Chain of Cu						9/7/21	9/7/21	9/7/21	X	Sample Date	SSOW#	Project # 89000048	WO#	# 0q		TAT Requested (days):	9/15/2021		- rhone	Sampler	
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		Company	Company	Company				itation complia k to the Eurofir icance to Euro						Solid	Solid	Solid	Preservation Code:	Matrix (W=water S=solid, O=waste/oli, BT=Tissue, A=Air									E-Mail Jessic	Kra	stody I
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Page 47 of 286

Eurofins Xenco, Carlsbad

5

Job Number: 890-1236-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1236 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1236 List Number: 2 Creator: Copeland, Tatiana

Creator: Copeland, Tatiana		
Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.1/ 2.6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	True	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1236-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 09/10/21 11:39 AM

Received by OCD: 3/18/2022 1:35:11 PM

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

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 890-1423-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

## For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/29/2021 7:32:30 PM Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

Released to Imaging: 4/27/2022 11:07:44 AM

Laboratory Job ID: 890-1423-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
QC Association Summary	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

2

	Definitions/Glossary		
Client: WSP U	-	Job ID: 890-1423-1	
Project/Site: A	vzores Fed Com 4H	SDG: 31402909.130	
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	A		
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, contro	l limits are not	
	applicable.		
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 EDL	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		

Limit of Detection (DoD/DOE)

Method Detection Limit

Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present

Presumptive Quality Control

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level"

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

LOD

LOQ

MCL

MDA

MDC MDL

ML

MPN

MQL

NC

ND

NEG

POS

PQL

PRES

QC RER

RL

RPD TEF

TEQ

TNTC

Project/Site: Azores Fed Com 4H

4

Job ID: 890-1423-1 SDG: 31402909.130

#### Job ID: 890-1423-1

Client: WSP USA Inc.

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-1423-1

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### **Receipt Exceptions**

Analysis for TPH 8015, BTEX 8021, CHLORIDE for the following samples were put on hold by the client on 10/14/2021: PH05D (890-1423-1) and PH05E (890-1423-2). This analysis was originally requested on the chain-of-custody (COC).

#### GC VOA

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1456-A-1-C). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10061 and analytical batch 880-10051 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.

Job ID: 890-1423-1 SDG: 31402909.130

## **Client Sample ID: PH05D**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 15:37 Date Received: 10/14/21 12:12

Sample Depth: 7

Client: WSP USA Inc.

Lab Sample ID: 890-1423-1

## Matrix: Solid

5

Method: 8021B - Volatile Organ Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.00615	Quanner	0.00202	mg/Kg	<b>_</b>	10/21/21 10:15	10/21/21 20:34	
Toluene	0.0219		0.00202	mg/Kg		10/21/21 10:15	10/21/21 20:34	
Ethylbenzene	0.0627		0.00202	mg/Kg		10/21/21 10:15	10/21/21 20:34	
m-Xylene & p-Xylene	0.259		0.00404	mg/Kg		10/21/21 10:15	10/21/21 20:34	
o-Xylene	0.125		0.00202	mg/Kg		10/21/21 10:15	10/21/21 20:34	
Xylenes, Total	0.384		0.00404	mg/Kg		10/21/21 10:15	10/21/21 20:34	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	242	S1+	70 - 130			10/21/21 10:15	10/21/21 20:34	
1,4-Difluorobenzene (Surr)	119		70 - 130			10/21/21 10:15	10/21/21 20:34	
Method: Total BTEX - Total BTE	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.475		0.00404	mg/Kg	_		10/28/21 17:22	
Method: 8015 NM - Diesel Rang	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
Total TPH	1160		50.0	mg/Kg			10/27/21 12:19	
Method: 8015B NM - Diesel Rai	nge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		10/21/21 09:42	10/21/21 17:14	
Diesel Range Organics (Over C10-C28)	1030		50.0	mg/Kg		10/21/21 09:42	10/21/21 17:14	
Oll Range Organics (Over C28-C36)	132		50.0	mg/Kg		10/21/21 09:42	10/21/21 17:14	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
1-Chlorooctane	105		70 - 130			10/21/21 09:42	10/21/21 17:14	
p-Terphenyl	108		70 - 130			10/21/21 09:42	10/21/21 17:14	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1020		5.05	mg/Kg			10/28/21 10:21	
lient Sample ID: PH05E						Lab San	nple ID: 890-	1423.
ate Collected: 10/08/21 15:53							Matri	x: Sol
ate Received: 10/14/21 12:12 ample Depth: 10								
	io Compoundo (							
Method: 8021B - Volatile Organ			Ы	Unit	D	Prepared	Analyzed	Dil F
Analyte	Result	Quaimer	RL	onit		ricpuicu	/ liuiy200	
	Result <0.00200		0.00200			10/21/21 10:15	10/21/21 20:54	
Analyte Benzene Toluene		U	·					

Eurofins Xenco, Carlsbad

10/21/21 20:54

10/21/21 20:54

10/21/21 20:54

Released to Imaging: 4/27/2022 11:07:44 AM

m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

0.00399

0.00200

0.00399

mg/Kg

mg/Kg

mg/Kg

10/21/21 10:15

10/21/21 10:15

10/21/21 10:15

<0.00399 U

<0.00200 U

<0.00399 U

10/29/2021

1

1

## **Client Sample Results**

Job ID: 890-1423-1 SDG: 31402909.130

## **Client Sample ID: PH05E**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 15:53 Date Received: 10/14/21 12:12

Sample Depth: 10

Client: WSP USA Inc.

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/21/21 10:15	10/21/21 20:54	1
1,4-Difluorobenzene (Surr)	101		70 - 130			10/21/21 10:15	10/21/21 20:54	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			10/28/21 17:22	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel Rang	ne Organics (D							
mothod. of top this proper thang	ge erganiee (B							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
•	Result <49.9		<b>RL</b> 49.9	Unit mg/Kg	D	Prepared 10/21/21 09:42	Analyzed 10/21/21 17:34	Dil Fac
Gasoline Range Organics					<u>D</u>	·		Dil Fac 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>	·		Dil Fac 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	<u> </u>	10/21/21 09:42	10/21/21 17:34 10/21/21 17:34	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg	<u> </u>	10/21/21 09:42	10/21/21 17:34	Dil Fac 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<49.9	U U U	49.9	mg/Kg	<u> </u>	10/21/21 09:42	10/21/21 17:34 10/21/21 17:34	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <b>Surrogate</b>		U U U	49.9 49.9 49.9	mg/Kg	<u> </u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42	10/21/21 17:34 10/21/21 17:34 10/21/21 17:34	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<49.9 <49.9 <49.9 %Recovery	U U U	49.9 49.9 49.9 <i>Limits</i>	mg/Kg	<u> </u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b>	10/21/21 17:34 10/21/21 17:34 10/21/21 17:34 <b>Analyzed</b>	1 1 1 <i>Dil Fac</i>
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<49.9 <49.9 <49.9 %Recovery 101 108	U U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21 17:34 10/21/21 17:34 10/21/21 17:34 10/21/21 17:34 <u>Analyzed</u> 10/21/21 17:34	1 1 1 <b>Dil Fac</b> 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro Analyte	<49.9 <49.9 <49.9 %Recovery 101 108 omatography -	U U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg	D	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21 17:34 10/21/21 17:34 10/21/21 17:34 10/21/21 17:34 <u>Analyzed</u> 10/21/21 17:34	1 1 1 <b>Dil Fac</b> 1

Lab Sample ID: 890-1423-2

Matrix: Solid

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		Ę
890-1423-1	PH05D	242 S1+	119		
890-1423-2	PH05E	117	101		6
890-1456-A-1-B MSD	Matrix Spike Duplicate	121	85		
890-1456-A-1-D MS	Matrix Spike	121	112		
LCS 880-10041/1-A	Lab Control Sample	109	102		
LCSD 880-10041/2-A	Lab Control Sample Dup	110	93		8
MB 880-10041/5-A	Method Blank	106	99		
Surrogate Legend					

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
.ab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)	
30-7396-A-1-B MS	Matrix Spike	111	106	
80-7396-A-1-C MSD	Matrix Spike Duplicate	117	115	
90-1423-1	PH05D	105	108	
90-1423-2	PH05E	101	108	
CS 880-10061/2-A	Lab Control Sample	104	103	
CSD 880-10061/3-A	Lab Control Sample Dup	101	102	
/IB 880-10061/1-A	Method Blank	106	116	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1423-1 SDG: 31402909.130

Page 56 of 286

## Prep Type: Total/NA

Prep Type: Total/NA

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

Lab Sample ID: MB 880-10041/5-A	

#### Matrix: Solid Analysis Batch: 10083

-	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/21/21 10:15	10/21/21 15:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/21/21 10:15	10/21/21 15:47	1

#### Lab Sample ID: LCS 880-10041/1-A Matrix: Solid

#### Analysis Batch: 10083

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	
Toluene	0.100	0.08587		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08832		mg/Kg		88	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

#### Lab Sample ID: LCSD 880-10041/2-A

#### Matrix: Solid

Analysis Batch: 10083							Prep	Batch:	10041
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.08951		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08985		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09454		mg/Kg		95	70 - 130	7	35

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

## Lab Sample ID: 890-1456-A-1-B MSD

#### Matrix: Solid .....

Analysis Batch: 10083									Pre	p Batch:	10041
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.05173		mg/Kg					
Toluene	<0.00202	U	0.100	0.07158		mg/Kg					

Eurofins Xenco, Carlsbad

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

**Client Sample ID: Method Blank** 

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

Client Sample ID: Lab Control Sample Dup

Prep Batch: 10041

Prep Type: Total/NA

**Client Sample ID: Matrix Spike Duplicate** 

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1423-1 SDG: 31402909.130

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

Lab Sample ID: 890-1456-A-1-I Matrix: Solid	BMSD						Clien	it Sa	mple ID:	Matrix Spik Prep Ty		
Analysis Batch: 10083										Prep B		
	Sample Sa	mple	Spike	MSD	MSD					%Rec.		RP
Analyte	Result Q		Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00202 U			0.07812		mg/Kg						
m-Xylene & p-Xylene	<0.00202 0 <0.00403 U		0.201	0.1557								
						mg/Kg						
o-Xylene	<0.00202 U		0.100	0.07460		mg/Kg						
	MSD M	SD										
Surrogate	%Recovery Q	ıalifier	Limits									
4-Bromofluorobenzene (Surr)	121		70 - 130									
1,4-Difluorobenzene (Surr)	85		70 - 130									
	- W0								0			0.11
Lab Sample ID: 890-1456-A-1-I	DWS								Client	Sample ID: N		
Matrix: Solid										Prep Ty	be: To	otal/N
Analysis Batch: 10083												
	MS M	S										
Surrogate		alifier	Limits									
4-Bromofluorobenzene (Surr)	121		70 - 130									
1,4-Difluorobenzene (Surr)	112		70 - 130									
r,+-Dindolobenzene (Sull)	112		70 - 150									
	/1 <b>-A</b>								chefit 3	ample ID: Me		
Matrix: Solid		B MB								Prep Ty Prep B	be: To	otal/N
Matrix: Solid Analysis Batch: 10051	м	B MB It Qualifier	RL		Unit		D			Prep Ty Prep B	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 ^{Analyte}	M Resu	B MB It Qualifier	<b></b>		Unit mg/K	g	<u>D</u>	Pr	epared 1/21 09:42	Prep Ty	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu	It Qualifier	50.0		mg/K	-		Pr	epared	Prep Typ Prep B Analyzed	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50.	It Qualifier				-		<b>Pr</b> 10/2*	epared	Prep Typ Prep B Analyzed	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50.	It Qualifier	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	epared 1/21 09:42	Prep Typ Prep B Analyzed	<b>atch:</b> 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50.	It Qualifier U 0 U	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	<b>epared</b> 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	M Resu <50. <50.	It Qualifier U 0 U 0 U 0 U 8 <i>MB</i>	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	<b>epared</b> 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11:	42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	M Resu <50. <50. <50. <i>M</i>	t Qualifier U U U U U U B B MB Qualifier	50.0 50.0 50.0		mg/K	g		Pr 10/2* 10/2* 10/2* Pr	epared 1/21 09:42 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11:	42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	M Resu <50. <50. <50. %Recover	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <i>Limits</i></td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 Pr 10/2</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: Analyzed</td> <td><b>atch:</b> 42 42 42 42 42 42 42</td> <td>Dill Fa</td>	50.0 50.0 50.0 <i>Limits</i>		mg/K	g		Pr 10/2 10/2 10/2 Pr 10/2	epared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: Analyzed	<b>atch:</b> 42 42 42 42 42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: <i>Analyzed</i> 10/21/21 11: 10/21/21 11:</td> <td><b>atch:</b> 42 42 42 42 42 42 42 42</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: <i>Analyzed</i> 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42 42 42 42 42 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Cont</td> <td><b>atch:</b> 42 42 42 42 42 42 42 42 42 42</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Cont	<b>atch:</b> 42 42 42 42 42 42 42 42 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Tyj</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Tyj	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fi</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/K mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006 Matrix: Solid Analysis Batch: 10051	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K mg/K</td> <td>- g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec.</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130		mg/K mg/K mg/K	- g g		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec.	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added</td> <td>Result</td> <td>mg/K mg/K</td> <td>g g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added	Result	mg/K mg/K	g g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K mg/K</td> <td>- g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec.</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130		mg/K mg/K mg/K	- g g		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec.	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000</td> <td>Result 974.4</td> <td>mg/K mg/K mg/K</td> <td>g g - <u>Unit</u> mg/Kg</td> <td></td> <td>Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97</td> <td>Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added</td> <td>Result</td> <td>mg/K mg/K mg/K</td> <td>g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added	Result	mg/K mg/K mg/K	g g		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	It Qualifier U U U U U U U U U U U U U U U U U U U	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50. <50. %Recover 10 11 1/2-A	It Qualifier U U U U B MB <u>y</u> Qualifier 6	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Lab Sample ID: MB 880-10061 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	M Resu <50. <50. <50. %Recover 10 11/2-A	It Qualifier U U U U B MB <u>y</u> Qualifier 6	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* 10/2* 10/2* 10/2* ient	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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Job ID: 890-1423-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-1	0061/3-A					Clier	nt Sam	ple ID:	Lab Contro		-
Matrix: Solid										ype: To	
Analysis Batch: 10051										Batch:	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	886.7		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	851.4		mg/Kg		85	70 - 130	3	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: 880-7396-A	-1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051										Batch:	
	Sample	Sample	Spike	MS	MS				«Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	1000	1264		mg/Kg		126	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	69.3		1000	1021		mg/Kg		95	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	106		70 - 130								
Lab Sample ID: 880-7396-A	-1-C MSD					CI	ient Sa	ample IC	: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051									Prep	Batch:	10061
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	1312	F1	mg/Kg		132	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	69.3		997	1071		mg/Kg		101	70 - 130	5	20
/	M00	MSD									
Surrogate			Limito								
Surrogate	%Recovery	Qualifier	Limits								
			70 400								
1-Chlorooctane o-Terphenyl			70 ₋ 130 70 ₋ 130								

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10654/1-A Matrix: Solid Analysis Batch: 10793						Client Sa	ample ID: Metho Prep Type:	
	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 10:03	1

Page 59 of 286

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

#### Job ID: 890-1423-1 SDG: 31402909.130

Method: 300.0 - Anions, Ion Chromatography (Continued)

							0	•			
Lab Sample ID: LCS 880-10654/2-/ Matrix: Solid	A						Client	Samp	le ID: Lab Co		
									Frep	Type: S	eldulo
Analysis Batch: 10793			Spike	1.00	LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride			250	249.7	Quaimer			100	90 - 110		
			250	249.7		mg/Kg		100	90 - 110		
	3-A					Clie	nt Sam	nple ID:	Lab Contro	Sampl	e Dup
Matrix: Solid										Type: S	
Analysis Batch: 10793										210 C	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	245.8		mg/Kg		98	90 - 110	2	20
_											
Lab Sample ID: 890-1423-1 MS									<b>Client Sam</b>	ple ID: F	PH05D
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 10793											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1020		253	1281	4	mg/Kg		103	90 _ 110		
_ Lab Sample ID: 890-1423-1 MSD									Client Sam	nlo ID: E	
Matrix: Solid										Type: S	
Analysis Batch: 10793									пер	Type. O	oluble
Analysis Daton. 10/35	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1020	Quanter	253	1272		mg/Kg		100	90 - 110	1	20
	1020		200	1272	-	mg/Ng		100	30 - 110		20

 of 286

 1

 0
 2

 3

 e
 4

 3

 e
 4

 6

 p
 7

 no
 9

 p
 10

 no
 10

 no
 11

 12
 13

**Client Sample ID** 

PH05D

PH05E

Method Blank

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

**Client Sample ID** 

PH05D

PH05E

Method Blank

Matrix Spike

PH05D

PH05E

**Client Sample ID** 

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

## **QC** Association Summary

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Type

Total/NA

Total/NA

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Matrix

Solid

Solid

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

#### Prep Batch: 10041

MB 880-10041/5-A

LCS 880-10041/1-A

LCSD 880-10041/2-A

890-1456-A-1-B MSD

Lab Sample ID

MB 880-10041/5-A

LCS 880-10041/1-A

LCSD 880-10041/2-A

890-1456-A-1-B MSD

Analysis Batch: 10878

890-1456-A-1-D MS

890-1423-1

890-1423-2

Analysis Batch: 10083

Lab Sample ID

890-1423-1

890-1423-2

Method

5035

5035

5035

5035

5035

5035

Method

8021B

8021B

8021B

8021B

8021B

8021B

8021B

Method

Total BTEX

Total BTEX

Job	D: 890-1423	-1
DG:	31402909.1	30

2909.130	
Prep Batch	
	5
	8
Prep Batch 10041	Q

10041

10041

10041

10041

10041

Prep Batch

890-1423-2

Lab Sample ID

890-1423-1

#### GC Semi VOA

#### Analysis Batch: 10051

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1423-1	PH05D	Total/NA	Solid	8015B NM	10061
890-1423-2	PH05E	Total/NA	Solid	8015B NM	10061
MB 880-10061/1-A	Method Blank	Total/NA	Solid	8015B NM	10061
LCS 880-10061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10061
LCSD 880-10061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10061
880-7396-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	10061
880-7396-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10061

#### Prep Batch: 10061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1423-1	PH05D	Total/NA	Solid	8015NM Prep	
890-1423-2	PH05E	Total/NA	Solid	8015NM Prep	
MB 880-10061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7396-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7396-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Lab Sample ID **Client Sample ID** Prep Batch Prep Type Matrix Method 890-1423-1 PH05D Total/NA Solid 8015 NM 890-1423-2 PH05E Total/NA Solid 8015 NM

## **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1423-1 SDG: 31402909.130

HPLC/IC

#### Leach Batch: 10654

ab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1423-1	PH05D	Soluble	Solid	DI Leach	
390-1423-2	PH05E	Soluble	Solid	DI Leach	
/IB 880-10654/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-10654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-10654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
390-1423-1 MS	PH05D	Soluble	Solid	DI Leach	
190-1423-1 MSD <b>nalysis Batch: 10793</b> sh Sample ID		Soluble	Solid	DI Leach	Bron Botob
nalysis Batch: 10793					Drop Botch
		Soluble Prep Type Soluble	Solid <u>Matrix</u> Solid	DI Leach Method 300.0	Prep Batch 10654
nalysis Batch: 10793 .ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	_ <u> </u>
nalysis Batch: 10793 ab Sample ID 390-1423-1	Client Sample ID PH05D	Prep Type Soluble	Matrix Solid	Method 300.0	10654
nalysis Batch: 10793 .ab Sample ID 390-1423-1 390-1423-2	Client Sample ID PH05D PH05E	Prep Type Soluble Soluble	Matrix Solid Solid	Method 300.0 300.0	10654 10654
nalysis Batch: 10793 Lab Sample ID 190-1423-1 190-1423-2 //B 880-10654/1-A	Client Sample ID PH05D PH05E Method Blank	Prep Type Soluble Soluble Soluble	Matrix Solid Solid Solid	Method 300.0 300.0 300.0	10654 10654 10654
<b>ab Sample ID</b> 390-1423-1 390-1423-2 //B 880-10654/1-A .CS 880-10654/2-A	Client Sample ID PH05D PH05E Method Blank Lab Control Sample	Prep Type Soluble Soluble Soluble Soluble	Matrix Solid Solid Solid Solid Solid	Method           300.0           300.0           300.0           300.0           300.0           300.0	10654 10654 10654 10654 10654

#### Analysis Batch: 10793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1423-1	PH05D	Soluble	Solid	300.0	10654	
890-1423-2	PH05E	Soluble	Solid	300.0	10654	
MB 880-10654/1-A	Method Blank	Soluble	Solid	300.0	10654	
LCS 880-10654/2-A	Lab Control Sample	Soluble	Solid	300.0	10654	
LCSD 880-10654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10654	
890-1423-1 MS	PH05D	Soluble	Solid	300.0	10654	
890-1423-1 MSD	PH05D	Soluble	Solid	300.0	10654	

Eurofins Xenco, Carlsbad

Page 62 of 286

Job ID: 890-1423-1 SDG: 31402909.130

## Lab Sample ID: 890-1423-1 Matrix: Solid

Client Sample ID: PH05D Date Collected: 10/08/21 15:37 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 20:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 17:14	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 10:21	СН	XEN MID

#### Client Sample ID: PH05E Date Collected: 10/08/21 15:53

Date Received: 10/14/21 12:12

	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	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 20:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 17:34	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 10:38	СН	XEN MID

#### Laboratory References:

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

423-1 9.130 I23-1 Solid

Lab Sample ID: 890-1423-2 Matrix: Solid

10

## Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1423-1 SDG: 31402909.130

#### Laboratory: Eurofins Xenco, Midland

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

hority	P	rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not o	fer certification.			, ,
• ,		Matrix	Analyte	
the agency does not o	fer certification.			

## **Method Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

lethod	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal 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
800.0	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
OI 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

Page 65 of 286

Job ID: 890-1423-1 SDG: 31402909.130

## Sample Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1423-1 SDG: 31402909.130

Depth	Received	Collected	Matrix	Client Sample ID	Lab Sample ID
 7	10/14/21 12:12	10/08/21 15:37	Solid	PH05D	890-1423-1
10	10/14/21 12:12	10/08/21 15:53	Solid	PH05E	890-1423-2

.

nings     Bill to: (if different)       A     Company Name:       A     Company Name:       A     Company Name:       Address:     City, State ZIP;       -2503     Email: Italei.jennings@wsp.com       Azores Fed Com 4H     Turn Around       31402909.130     Lea County       Fatima Smith     Due Date;       Fatima Smith     Due Date;       Tepp Blank     We toe:       Val     Correction Factor:       s. No     Val       Val     Total Containers:       s. No     No       Date     Time       Date     S       10/8/2021     153       10/8/2021     153       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1553       10/8/2021     1555       10/8/2021     1555       10/8/2021     1555	Street     Bit to: (if different)       33     Email: kale jennings@wsp.com       33     Email: kale jennings@wsp.com       34     Email: kale jennings@wsp.com       35     Email: kale jennings@wsp.com       402090 130     Routine: X       1402090 130     Routine: X       123     Email: kale jennings@wsp.com       2.2     Thermometer ID       No     Wet Icae:       100     Number of Containers       101     INM OC       101     101       102     101       103     S       1048/2021     153       1053     101       11     TPH (EPA 88015)       107     1       108/2021     153       109/2021     153       109/2021     153       100     1       11     TPH (EPA 88015)       100     1       101     1       101     1       101     1       101     1       102     1       103     101       10     1       10     1       10     1       10     1       10     1       10     10 <td< th=""><th>Bill to: (rf different)       Company Name:       Address:       City, State ZIP:       Email:       Kalei,jennings@wsp.com       Turn Around       Rush:       Due Date:       Due Date:       Wei Ice:       Wei Ice:       Vei Ice:       Vei Ice:       Vei Ice:       Time       Due Date:       Itainers:       Itaitainers:       Itainers:    <tr< th=""><th>Jab /</th><th>Relinquished by: (Signature)</th><th>votice: Signature of this document and relinc of service. Xenco will be liable only for the co of Xenco. A grinimum charge of \$75.00 will b</th><th>Da</th><th>Total 200.7 / 6010 200.8 / 6020:</th><th></th><th></th><th></th><th></th><th></th><th>PHOSE</th><th>PH05D</th><th>Sample Identification</th><th>Sample Custody Seals: Yes No</th><th>Cooler Custody Seals: Yes No</th><th>Received Intact: (Yes</th><th>Temperature (°C): 2.4</th><th>SAMPLE RECEIPT</th><th>Sampler's Name: F</th><th>Location:</th><th>Project Number: 3</th><th>Project Name: Azon</th><th>Phone: (817) 683-2503</th><th>City, State ZIP: Midland, TX 79705</th><th>Address: 3300 North A Street</th><th>Company Name: WSP USA</th><th>Project Manager: Kalei Jennings</th></tr<></th></td<>	Bill to: (rf different)       Company Name:       Address:       City, State ZIP:       Email:       Kalei,jennings@wsp.com       Turn Around       Rush:       Due Date:       Due Date:       Wei Ice:       Wei Ice:       Vei Ice:       Vei Ice:       Vei Ice:       Time       Due Date:       Itainers:       Itaitainers:       Itainers: <tr< th=""><th>Jab /</th><th>Relinquished by: (Signature)</th><th>votice: Signature of this document and relinc of service. Xenco will be liable only for the co of Xenco. A grinimum charge of \$75.00 will b</th><th>Da</th><th>Total 200.7 / 6010 200.8 / 6020:</th><th></th><th></th><th></th><th></th><th></th><th>PHOSE</th><th>PH05D</th><th>Sample Identification</th><th>Sample Custody Seals: Yes No</th><th>Cooler Custody Seals: Yes No</th><th>Received Intact: (Yes</th><th>Temperature (°C): 2.4</th><th>SAMPLE RECEIPT</th><th>Sampler's Name: F</th><th>Location:</th><th>Project Number: 3</th><th>Project Name: Azon</th><th>Phone: (817) 683-2503</th><th>City, State ZIP: Midland, TX 79705</th><th>Address: 3300 North A Street</th><th>Company Name: WSP USA</th><th>Project Manager: Kalei Jennings</th></tr<>	Jab /	Relinquished by: (Signature)	votice: Signature of this document and relinc of service. Xenco will be liable only for the co of Xenco. A grinimum charge of \$75.00 will b	Da	Total 200.7 / 6010 200.8 / 6020:						PHOSE	PH05D	Sample Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No	Received Intact: (Yes	Temperature (°C): 2.4	SAMPLE RECEIPT	Sampler's Name: F	Location:	Project Number: 3	Project Name: Azon	Phone: (817) 683-2503	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: WSP USA	Project Manager: Kalei Jennings
Bill to: (if different) Company Name: Address: City, State ZIP: City, State ZIP: Date: Date: Date: Date: Date: Date: Trince: Depth Depth Depth Trince: Trince: Depth Depth Depth Depth Trince: Trince: Trince: Depth Depth Depth Depth Trince: Trince: Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth Depth	Bill to: (rf different)         Company Name:         Address:         City, State ZIP:         Urm Around         Wall         Turn Around         Andress:         Oate:         Bate:         Depth         Depth         No         T'         P         Analysis         Analysis         Analysis         Bate:         P         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Bate:         Choride         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Bate:         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Analysis         Bater         Analysis		Chy and	Received by: (Signa	uishment of samples constitutes a vali ost of samples and shall not assume an e applied to each project and a charge c		8RCRA			Xak		10,0,2021	10/8/2021	10/8/2021	Date Sampled	N.	NA			W ON BUT						)705	Street		
	ANALYSIS RI ANALYSIS RI ANALYSIS RI ANALYSIS RI ANALYSIS RI ANALYSIS RI Chloride (EPA 300.0) BTEX (EPA 0=8021) Chloride (EPA 300.0) BB BB BC CC CC CC CL FC S BB BC CC			ture) Date/	d purchase order from client compa y responsibility for any losses or ex of \$5 for each sample submitted to )	8RCRA	Texas 11 Al Sb As				2	$\downarrow$	_		Depth Numb					tes No	e Date:	sh:	Itine:	furn Around		City, State ZIP:	Address:	Company Name:	Bill to: (if different)



# Chain of Custody

13

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334
 Mildland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 784-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900
 Fampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-67

Work Order No:

Page 67 of 286

Job Number: 890-1423-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1423 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1423-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 09:51 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1423 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Received by OCD: 3/18/2022 1:35:11 PM

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

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 890-1424-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H Revision: 1

## For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/11/2021 10:13:03 AM

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

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

Have a Question?

Ask-

Released to Imaging: 4/27/2022 11:07:44 AM

Laboratory Job ID: 890-1424-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

2

## **Definitions/Glossary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1424-1 SDG: 31402909.130

## Qualifiers

Qualifiers		3
GC VOA	Quelifier Description	
Qualifier	Qualifier Description Indicates the analyte was analyzed for but not detected.	4
-		5
GC Semi VO Qualifier	Qualifier Description	J
U	Indicates the analyte was analyzed for but not detected.	6
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	o
%R	Percent Recovery	0
CFL	Contains Free Liquid	0
CFU	Colony Forming Unit	9
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	
## Job ID: 890-1424-1

## Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1424-1

### REVISION

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to Per client request, remove sample at 12'.

Report revision history

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### **Receipt Exceptions**

Analysis for TPH 8015, BTEX 8021, CHLORIDE for the following samples were put on hold by the client on 10/14/2021: PH04D (890-1424-1) and PH04E (890-1424-2). This analysis was originally requested on the chain-of-custody (COC).

#### GC VOA

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

#### GC Semi VOA

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

#### HPLC/IC

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

Job ID: 890-1424-1 SDG: 31402909.130

# **Client Sample Results**

## **Client Sample ID: PH04D** Date Collected: 10/08/21 14:21 Date Received: 10/14/21 12:12

Sample Depth: 8

Method: 8021B - Volatile Orga	inic Compou	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		10/21/21 10:15	10/21/21 21:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			10/21/21 10:15	10/21/21 21:15	1
1,4-Difluorobenzene (Surr)	70		70 - 130			10/21/21 10:15	10/21/21 21:15	1
Method: Total BTEX - Total B		tion						
Analyte		tion Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397		0.00397	mg/Kg	<u> </u>	Frepared	10/28/21 17:22	
	-0.00097	5	5.00001				10,20,21 11.22	I
Method: 8015 NM - Diesel Rar	nge Organic	s (DRO) (C	3C)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	65.7		49.9	mg/Kg			10/27/21 12:19	1
	-							
Method: 8015B NM - Diesel Ra			· · ·		-		A •	<b>B-</b>
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		10/21/21 09:42	10/21/21 17:54	1
Diesel Range Organics (Over	65.7		49.9	mg/Kg		10/21/21 09:42	10/21/21 17:54	1
C10-C28) Oll Pape Organics (Over C28-C36)	<49.9		49.9	malka		10/21/21 00.40	10/21/21 17:54	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:42	10/21/21 17:54	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	104		70 - 130			10/21/21 09:42	10/21/21 17:54	1
o-Terphenyl	111		70 - 130			10/21/21 09:42	10/21/21 17:54	1
 Method: 300.0 - Anions, Ion C	hromatoora	phy - Solu	ıble					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.0		4.95	mg/Kg	— <b>-</b>		10/28/21 10:44	1
Shorido	10.0		4.00					1

Job ID: 890-1424-1 SDG: 31402909.130

# Lab Sample ID: 890-1424-1

Matrix: Solid

Eurofins Xenco, Carlsbad

5

## Job ID: 890-1424-1 SDG: 31402909.130

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

			Percent Su	rrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
ab Sample ID	Client Sample ID	(70-130)	(70-130)	
90-1424-1	PH04D	122	70	
Surrogate Legend				
BFB = 4-Bromofluor				
DFBZ = 1,4-Difluoro	obenzene (Surr) NM - Diesel Range O	rganics (DR	O) (GC)	
ethod: 8015B		rganics (DR		Prep Type: Total/NA
ethod: 8015B		rganics (DR 1C01		Prep Type: Total/NA rrogate Recovery (Acceptance Limits)
ethod: 8015B atrix: Solid			Percent Su	· · · ·
ethod: 8015B atrix: Solid ab Sample ID	NM - Diesel Range O	1C01	Percent Su OTPH1	· · · ·
ethod: 8015B atrix: Solid ab Sample ID	NM - Diesel Range O Client Sample ID PH04D	1CO1 (70-130)	Percent Su OTPH1 (70-130)	· · · ·
ethod: 8015B atrix: Solid .ab Sample ID 90-1424-1	NM - Diesel Range O	1CO1 (70-130)	Percent Su OTPH1 (70-130)	· · · ·

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

Lab Sample ID: MB 880-10041/5-A Matrix: Solid Analysis Batch: 10083					Client Sa	mple ID: Meth Prep Type: Prep Bato
	МВ	MB				
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed
Benzene	<0.00200	U	0.00200		10/21/21 10:15	10/21/21 15:47
Toluene	<0.00200	U	0.00200	mg/Kg	10/21/21 10:15	10/21/21 15:47
Ethylbenzene	<0.00200	U	0.00200	mg/Kg	10/21/21 10:15	10/21/21 15:47
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg	10/21/21 10:15	10/21/21 15:47
o-Xylene	<0.00200	U	0.00200	mg/Kg	10/21/21 10:15	10/21/21 15:47
Xylenes, Total	<0.00400	U	0.00400	mg/Kg	10/21/21 10:15	10/21/21 15:47
	МВ	MB				
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed

#### Dil Fac Analyzed 70 - 130 10/21/21 10:15 4-Bromofluorobenzene (Surr) 106 10/21/21 15:47 1 1,4-Difluorobenzene (Surr) 70 - 130 10/21/21 10:15 10/21/21 15:47 99 1

#### Lab Sample ID: LCS 880-10041/1-A Matrix: Solid

## Analysis Batch: 10083

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	
Toluene	0.100	0.08587		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08832		mg/Kg		88	70 _ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

## Lab Sample ID: LCSD 880-10041/2-A

## Matrix: Solid

Analysis Batch: 10083							Prep	Batch:	10041
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.08951		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08985		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09454		mg/Kg		95	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

# Lab Sample ID: 890-1456-A-1-B MSD

# Matrix: Solid

Analysis Batch: 10083									Pre	p Batch:	10041
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.05173		mg/Kg					
Toluene	<0.00202	U	0.100	0.07158		mg/Kg					

Eurofins Xenco, Carlsbad

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1424-1 SDG: 31402909.130

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

Lab Sample ID: 890-1456-A-1-I Matrix: Solid	BMSD						Clien	it Sa	mple ID:	Matrix Spik Prep Ty		
Analysis Batch: 10083										Prep B		
	Sample Sa	mple	Spike	MSD	MSD					%Rec.		RP
Analyte	Result Q		Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00202 U			0.07812		mg/Kg						
m-Xylene & p-Xylene	<0.00202 0 <0.00403 U		0.201	0.1557								
						mg/Kg						
o-Xylene	<0.00202 U		0.100	0.07460		mg/Kg						
	MSD M	SD										
Surrogate	%Recovery Q	ıalifier	Limits									
4-Bromofluorobenzene (Surr)	121		70 - 130									
1,4-Difluorobenzene (Surr)	85		70 - 130									
	- W0								0			0.11
Lab Sample ID: 890-1456-A-1-I	DWS								Client	Sample ID: N		
Matrix: Solid										Prep Ty	be: To	otal/N
Analysis Batch: 10083												
	MS M	S										
Surrogate		alifier	Limits									
4-Bromofluorobenzene (Surr)	121		70 - 130									
1,4-Difluorobenzene (Surr)	112		70 - 130									
r,+-Dindolobenzene (Sull)	112		70 - 150									
	/1 <b>-A</b>								chefit 3d	ample ID: Me		
Matrix: Solid		B MB								Prep Ty Prep B	be: To	otal/N
Matrix: Solid Analysis Batch: 10051	м	B MB It Qualifier	RL		Unit		D			Prep Ty Prep B	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 ^{Analyte}	M Resu	B MB It Qualifier	<b></b>		Unit mg/K	g	<u>D</u>	Pr	epared 1/21 09:42	Prep Ty	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu	It Qualifier	50.0		mg/K	-		Pr	epared	Prep Typ Prep B Analyzed	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50.	It Qualifier				-		<b>Pr</b> 10/2*	epared	Prep Typ Prep B Analyzed	oe: To atch:	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50.	It Qualifier	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	epared 1/21 09:42	Prep Typ Prep B Analyzed	<b>atch:</b> 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50.	It Qualifier U 0 U	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	<b>epared</b> 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42	otal/N 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	M Resu <50. <50.	It Qualifier U 0 U 0 U 0 U 8 <i>MB</i>	50.0		mg/K	g		<b>Pr</b> 10/21 10/21	<b>epared</b> 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11:	42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	M Resu <50. <50. <50. <i>M</i>	t Qualifier U U U U U U B B MB Qualifier	50.0 50.0 50.0		mg/K	g		Pr 10/2* 10/2* 10/2* Pr	epared 1/21 09:42 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11:	42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	M Resu <50. <50. <50. %Recover	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <i>Limits</i></td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 Pr 10/2</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: Analyzed</td> <td><b>atch:</b> 42 42 42 42 42 42 42</td> <td>Dill Fa</td>	50.0 50.0 50.0 <i>Limits</i>		mg/K	g		Pr 10/2 10/2 10/2 Pr 10/2	epared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: Analyzed	<b>atch:</b> 42 42 42 42 42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: <i>Analyzed</i> 10/21/21 11: 10/21/21 11:</td> <td><b>atch:</b> 42 42 42 42 42 42 42 42</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: <i>Analyzed</i> 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42 42 42 42 42 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Cont</td> <td><b>atch:</b> 42 42 42 42 42 42 42 42 42 42</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Cont	<b>atch:</b> 42 42 42 42 42 42 42 42 42 42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130</td> <td></td> <td>mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Tyj</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Tyj	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K</td> <td>g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fi</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/K mg/K	g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	Pepared 1/21 09:42 1/21 09:42 1/21 09:42 Pepared 1/21 09:42 1/21 09:42	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006 Matrix: Solid Analysis Batch: 10051	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K mg/K</td> <td>- g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B %Rec.</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130		mg/K mg/K mg/K	- g g		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B %Rec.	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added</td> <td>Result</td> <td>mg/K mg/K</td> <td>g g</td> <td></td> <td>Pr 10/2 10/2 10/2 <i>Pr</i> 10/2</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added	Result	mg/K mg/K	g g		Pr 10/2 10/2 10/2 <i>Pr</i> 10/2	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130</td> <td></td> <td>mg/K mg/K mg/K</td> <td>- g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample</td> <td>Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B %Rec.</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130		mg/K mg/K mg/K	- g g		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Tyj Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyj Prep B %Rec.	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000</td> <td>Result 974.4</td> <td>mg/K mg/K mg/K</td> <td>g g - <u>Unit</u> mg/Kg</td> <td></td> <td>Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97</td> <td>Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	Qualifier       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0       0 </td <td>50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added</td> <td>Result</td> <td>mg/K mg/K mg/K</td> <td>g g</td> <td></td> <td>Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*</td> <td>epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec</td> <td>Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits</td> <td>be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49</td> <td>Dil Fa</td>	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 Spike Added	Result	mg/K mg/K mg/K	g g		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Tyl Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10/21/21 11: 10: Lab Con Prep Tyl Prep B %Rec. Limits	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50. <50. <50. <i>M</i> <i>%Recover</i> 10 11	It Qualifier U U U U U U U U U U U U U U U U U U U	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50. <50. <50. %Recover 10 11 1/2-A	It Qualifier U U U U B MB <u>y</u> Qualifier 6	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa
Lab Sample ID: MB 880-10061 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	M Resu <50. <50. <50. %Recover 10 11/2-A	It Qualifier U U U U B MB <u>y</u> Qualifier 6	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg		Pr 10/2* 10/2* 10/2* <i>Pr</i> 10/2* 10/2* 10/2*	epared 1/21 09:42 1/21 09:42 1/21 09:42 epared 1/21 09:42 1/21 09:42 Sample Sample 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep           %Rec.           Limits           70 - 130	be: To         atch:         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         42         43         442         442         442         442         442         442         442         442         45         46         47         48         49	Dil Fa

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1424-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-1	0061/3-A					Clier	nt Sam	ple ID:	Lab Contro		-
Matrix: Solid										ype: To	
Analysis Batch: 10051										Batch:	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	886.7		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	851.4		mg/Kg		85	70 - 130	3	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: 880-7396-A	-1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051										Batch:	
	Sample	Sample	Spike	MS	MS				«Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	1000	1264		mg/Kg		126	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	69.3		1000	1021		mg/Kg		95	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	106		70 - 130								
Lab Sample ID: 880-7396-A	-1-C MSD					CI	ient Sa	ample IC	: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051									Prep	Batch:	10061
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	1312	F1	mg/Kg		132	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	69.3		997	1071		mg/Kg		101	70 - 130	5	20
/	M00	MSD									
Surrogate			Limito								
Surrogate	%Recovery	Qualifier	Limits								
			70 400								
1-Chlorooctane o-Terphenyl			70 ₋ 130 70 ₋ 130								

## Method: 300.0 - Anions, Ion Chromatography

Ma	ab Sample ID: MB 880-10654/1-A atrix: Solid nalysis Batch: 10793						Client Sa	ample ID: Metho Prep Type:	
	-	МВ	МВ						
An	alyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Ch	loride	<5.00	U	5.00	mg/Kg			10/28/21 10:03	1

Eurofins Xenco, Carlsbad

Page 78 of 286

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

## Job ID: 890-1424-1 SDG: 31402909.130

Method: 300.0 - Anions, Ion Chromatography (Continued)

- Lab Sample ID: LCS 88	80-10654/2-4						Client	Sample	D: Lab C	ontrol S	amnlo
Matrix: Solid	00-10004/2-74						Unern	Campic		Type: S	
Analysis Batch: 10793										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	010010
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		
Lab Sample ID: LCSD	880-10654/3-A					Clier	nt Sam	nple ID: I	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 10793	}										
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	245.8		mg/Kg		98	90 _ 110	2	20
- Lab Sample ID: 890-14	23-A-1-J MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: S	
Analysis Batch: 10793	}										
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1020		253	1281	4	mg/Kg		103	90 _ 110		
- Lab Sample ID: 890-14	23-A-1-K MSD					CI	ient Sa	ample IC	): Matrix S	oike Dup	olicate
Matrix: Solid								-		Type: S	
Analysis Batch: 10793	•									-	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1020		253	1272	4	mg/Kg		100	90 - 110	1	20

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

5 6

8

Job ID: 890-1424-1 SDG: 31402909.130

# **GC VOA**

## Prep Batch: 10041

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1424-1	PH04D	Total/NA	Solid	5035	
nalysis Batch: 10	0083				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1424-1	PH04D	Total/NA	Solid	8021B	1004
nalysis Batch: 10	0878				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
390-1424-1	PH04D	Total/NA	Solid	Total BTEX	· · · ·
C Semi VOA					
nalysis Batch: 10					
Lab Sample ID	Client Sample ID		Matrix	Method	
	Client Sample ID PH04D	Prep Type Total/NA	Matrix Solid	Method 8015B NM	
890-1424-1	PH04D				
890-1424-1 rep Batch: 10061	PH04D				1006
890-1424-1 rep Batch: 10061 Lab Sample ID	PH04D	Total/NA	Solid	8015B NM	1006
890-1424-1 Prep Batch: 10061 Lab Sample ID 890-1424-1	PH04D Client Sample ID PH04D PH04D	Total/NA Prep Type	Solid	8015B NM Method	Prep Batcl 1006 Prep Batcl
Lab Sample ID 890-1424-1 Prep Batch: 10061 Lab Sample ID 890-1424-1 Analysis Batch: 10 Lab Sample ID	PH04D Client Sample ID PH04D PH04D	Total/NA Prep Type	Solid	8015B NM Method	1006

# 890-1424-1 HPLC/IC

## Leach Batch: 10654

Lab Sample ID 890-1424-1	Client Sample ID PH04D	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
Analysis Batch: 10	0793				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1424-1	PH04D	Soluble	Solid	300.0	10654

Initial

Amount

5.04 g

5 mL

10.02 g

5.05 g

Final

Amount

5 mL

5 mL

10 mL

50 mL

Batch

10041

10083

10878

10676

10061

10051

10654

10793

Number

Dil

1

1

1

1

1

Factor

Run

## Client Sample ID: PH04D Date Collected: 10/08/21 14:21 Date Received: 10/14/21 12:12

Batch

Туре

Prep

Analysis

Analysis

Analysis

Analysis

Analysis

Leach

Prep

Job ID: 890-1424-1 SDG: 31402909.130

Lab

XEN MID

# Lab Sample ID: 890-1424-1 Matrix: Solid

Analyst

Prepared

or Analyzed

10/21/21 10:15 KL

10/21/21 21:15 KL

10/28/21 17:22 AJ

10/27/21 12:19 AJ

10/21/21 09:42 AM

10/21/21 17:54 AJ

10/26/21 16:57 CA

10/28/21 10:44 CH

Laboratory References:

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Soluble

Soluble

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

Batch

5035

8021B

Total BTEX

8015NM Prep

8015 NM

8015B NM

DI Leach

300.0

Method

**Accreditation/Certification Summary** 

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1424-1 SDG: 31402909.130

# Laboratory: Eurofins Xenco, Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority Prog		gram	Identification Number	Expiration Date
exas	NEL	AP	T104704400-21-22	06-30-22
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Eurofins Xenco, Carlsbad

Page 82 of 286

10

# **Method Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1424-1 SDG: 31402909.130

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B 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
OI 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

Page 84 of 286

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1424-1 SDG: 31402909.130

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1424-1	PH04D	Solid	10/08/21 14:21	10/14/21 12:12	8

Bill to: (( different)       Company Name:       Address:       City, State ZIP:       Email:     kaleijennings@wsp.com       Rush:       Due Date:       Rush:       Due Date:       Rush:       Due Date:       Rush:       Depth       Themometer ID       Containers:       Containers:       Containers:       Containers:       Depth       Number of Containers       The       BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co       1       TCLP / SPLP 6010:       BRCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co       Cutor form diant company to Xanco, its affiliates and subootshall not assume any responsibility for any losses or expanses incurred by the client if audiopic and a charge of 55 to each sample submitted to Xanco, but not analyzed. These term form client form client form client if audiopic and a charge of 55 to each sample submitted to Xanco.		6 4		4				5 2
Project Manager         Kalei Jennings         Bill to: (r different)           Company Name         WSP USA         Company Name           Address:         3300 North A Street         City, Stale ZIP.           City, Stale ZIP.         Milland, TX 79705         Email: Kell-jennings@wsp.com           Project Name         617) 683-2503         Email: Kell-jennings@wsp.com           Project Name         617) 683-2503         Email: Kell-jennings@wsp.com           Sampler S Name         Farima Smith         Due Date           Sampler S Name         Farima Smith         Due Date           Sampler S Name         Farima Smith         Due Date           Sampler Custody Seals:         Yes         No         Wei Joz           Sample Custody Seals:         Yes         No         Depth         Themometer ID           Received Intact:         Singlind         Singlind         Depth         No         No           Sample Custody Seals:         Yes         No         No         Conclamers         No         No           City State         Si 10/8/2021         1420         12         1         PH (EPA 8001.9)         Bit Ex (EPA 40=8021)         <		4.21 1212	10.	MIP	lex C		2	· takel
Project Manager         Kallei Jennings         Bill to (i direent)           Company Name         WSP USA         Company Name           Address:         3300 North A Street         City, Stale ZIP:           City, Stale ZIP:         Midland, TX 79705         City, Stale ZIP:           Project Name         Azores Fed Com 4H         Routing           Project Name         Failma Smith         Due Date           Sample's Name         Failma Smith         Due Date           Sample's Name         Failma Smith         Due Date           Sample's Name         Failma Smith         Due Date           Sample durification         Matrix         Sampled Sampled         No           Sample durification         Matrix         Sampled         Sampled         Depth           PH04D         S         10/8/2021         14/21         8         1           PH04E         S         10/8/2021         14/40         12         1           PH04E         S         10/8/2021         14/40         12         1         Bittoiride (EPA 300.0)           B00:         Circle Method(s) and Metal(s) in ble analyzed         TCPA 12PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Cr Circle Methods         Circle Cr Co Cu C	ture)	ate/Time Relinquished by: (Signature)	D	yy: (Signature)	Received	ire)	/⊶(Signatu	Relinquished by
Manager.       Kalei Jennings         ny Name:       WSP USA         s:       3300 North A Street         ate ZIP:       Midland, TX 79705         (B17) 683-2503       (B17) 683-2503         Name:       Azores Fed Com 4H         Number:       31402909.130         Lea County       Fatima Smith         PLE RECEIPT       Temp Blank         Ves       No         d Intact:       Yes         Custody Seals:       Yes         PH04E       S         PH04E       S         PH04E       S         No       Natrix         Sample Identification       Matrix         Sample Identification       S         PH04E       S         N0/8/2021       No/8/2021         PH04E       S         N0/8/2021       No/8/2021         PH04E       S         No/8/100       200.8 / 6020:         BRC       BRC         I 200.7 / 6010       200.8 / 6020:         BRC       S         I 200.7 / 6010       200.8 / 6020:	<ul> <li>It assigns standard terms and condi are due to circumstances beyond the ci enforced unless previously negotiated.</li> </ul>	ompany to Xenco, its affiliates and subcontractors. It or expanses incurred by the client if such losses are d to Xenco, but not analyzed. These terms will be ent	order from client c bility for any losses th sample submitte	itutes a valid purchase assume any responsit d a charge of \$5 for eac	of samples cons ples and shall no peach project ar	nd relinquishment o or the cost of samp 10 will be applied to	document ar liable only fo narge of \$75.0	Notice: Signature of this of service. Xenco will be of Xenco. A minimum cl
Manager:     Kalei Jennings     Bill to: (ri different)       vy Name:     WSP USA     Company Name:       ate ZIP:     Midland, TX 79705     City, State ZIP:       ate ZIP:     Midland, TX 79705     City, State ZIP:       Name:     Azores Fed Com 4H     Turn Around       Number:     31402909 130     Enail:       Address:     Laa County     Rutine:       Number:     State ZIP:     Laa County       Number:     Temp Blank:     Ves No       Ves No     Ves No     Ves No       Aurer CO:     Z-H / Z. 2.     Thermometer ID       dinact:     Tes No     Ves No       Custody Seals:     Yes No     Ves No       PH04D     S     10/8/2021       PH04D     S     10/8/2021       PH04E     S     10/8/2021       Phote     S     1       Phote     S     1       Phote     S     10/8/2021       Phote     S     1 <tr< td=""><td>o Ni S</td><td>to As Ba Be Cd Cr Co Cu Pb Mn M</td><td>0: BRCRA S</td><td>TCLP / SPLP 601</td><td></td><td>tal(s) to be ar</td><td>(s) and Me</td><td>Circle Method</td></tr<>	o Ni S	to As Ba Be Cd Cr Co Cu Pb Mn M	0: BRCRA S	TCLP / SPLP 601		tal(s) to be ar	(s) and Me	Circle Method
Manager     Kalei Jennings     Bill to (I different)       sv     3300 North A Street     Company Name:       sv     3300 North A Street     Address:       ate ZIP:     Midland, TX 79705     City, State ZIP:       (e17) 683-2503     Email: kale: jennings@wsp.com       Number:     Azores Fed Com 4H     Turn Around       Number:     14.02909.130     Email: kale: jennings@wsp.com       Lea County     Faitina Smith     Due Date:       Custody Seals:     Yes No     Wet Ice:     No       PH04D     S     10/8/2021     1421     8'       PH04E     S     10/8/2021     1420     12'       H     Time     Depth     Bit (Lepa 300.0)     1	Pb Mg Mn Mo Ni	Ba Be B Cd Ca Cr Co Cu Fe	- 11	13PPM	8RC	0.8 / 6020:		Total 200.7 / 6
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Manager.     Kalei Jennings     Bill to: (if different)       ny Name:     WSP USA     Company Name:       ate ZIP:     Midland, TX 79705     Email:       different     Azores Fed Com 4H     Turn Around       Number:     31402309.130     Email:       Azores Fed Com 4H     Turn Around       Number:     Statute (°C):       PLE RECEIPT     Temp Blank:       Ves No     Wet Ice:       Ves No     Wet Ice:       Outlody Seals:     Yes No       Ves No     Wet Ice:       PH04D     S       PH04E     S       No     Watrix       Sample Identification     Matrix       Date     Time       PH04E     S       Ves No     Ves No       Ves No     1       PH04E     S       ID/8/2021     1440       ID     EIPA 0=8021)       Chloride (EPA 300.0)     EIPA 0=8021)				7				
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Manager         Kalei Jennings         Bill to: (if different)           ny Name:         WSP USA         Company Name:           3300 North A Street         Address:           ate ZIP:         Midland, TX 79705           (B17) 683-2503         Email:           kalei. jennings@wsp.com           Name:         Azores Fed Com 4H           1         Turn Around           Number:         31402909.130	-			Rush:	nty	Lea Cou		Location:
Manager.     Kalei Jennings     Bill to: (if different)       ny Name:     WSP USA     Company Name:       3300 North A Street     Address:       ate ZIP:     Midland, TX 79705       (B17) 683-2503     Email: kalei.jennings@wsp.com       Name:     Azores Fed Com 4H				Routine:	.130	31402909		Project Number:
ManagerKalei Jenningsny Name:WSP USAs:3300 North A Streetate ZIP:Midland, TX 79705(817) 683-2503Email:	EQUEST	ANALYSIS R	pur	Turn Arot	Com 4H	Azores Fed (		Project Name:
Ianager.       Kalei Jennings         Name:       WSP USA         3300 North A Street         e ZIP:       Midland, TX 79705	Deliverables: EDD	.com	ennings@wsp			3-2503	(817) 68:	Phone:
anager. Kalei Jennings Name: WSP USA 3300 North A Street	Reporting:Level I		tate ZIP:	City, S		TX 79705	Midland,	City, State ZIP:
Kalei Jennings WSP USA	State of Project:		Ś	Addres		rth A Street	3300 No	Address:
Kalei Jennings	Program: UST/PST PRF Brownfield RR		any Name:	Compa		A	WSP US	Company Name:
			(if different)	Bill to:		Inings	Kalei Jer	Project Manager:
(a)	561) 689-670	ahassee FI (850) 756-0747 Delrav Beach, FL (	131 620-2000 Tal	Tamna FL (8				-
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701	b	Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-09	1 (575) 392-7550,	Hobbs, NN				

Page 85 of 286

XENCO

5

13

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

Work Order No:

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1424 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1424-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

Eurofins Xenco, Carlsbad Released to Imaging: 4/27/2022 11:07:44 AM

Job Number: 890-1424-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 09:51 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1424 List Number: 2 Creator: Kramer, Jessica

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is	N/A	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Received by OCD: 3/18/2022 1:35:11 PM

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

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1425-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

# For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/29/2021 7:32:59 PM Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

Visit us at: www.eurofinsus.com/Env

LINKS

Review your project results through

Total Access

**Have a Question?** 

Ask-

Released to Imaging: 4/27/2022 11:07:44 AM

•

Laboratory Job ID: 890-1425-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	7
QC Sample Results	8
	12
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19

2

DLC

EDL

LOD

LOQ

MCL

MDA

MDC MDL

ML MPN

MQL

NC

ND

NEG

POS

PQL PRES

QC

RL RPD

TEF

TEQ

TNTC

RER

Page 90 of 286

	Definitions/Glossary		
Client: WSP US Project/Site: Az		890-1425-1 402909.130	
Qualifiers			
GC VOA Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VOA			
Qualifier	Qualifier Description		
F1	MS and/or MSD recovery exceeds control limits.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		8
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not		
	applicable.		9
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		

Decision Level Concentration (Radiochemistry)

EPA recommended "Maximum Contaminant Level"

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

Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)

Estimated Detection Limit (Dioxin)

Limit of Detection (DoD/DOE)

Method Detection Limit Minimum Level (Dioxin)

Most Probable Number

Not Calculated

Negative / Absent

Positive / Present Practical Quantitation Limit

Presumptive

**Quality Control** 

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

Method Quantitation Limit

Limit of Quantitation (DoD/DOE)

4

Job ID: 890-1425-1 SDG: 31402909.130

### Job ID: 890-1425-1

Client: WSP USA Inc.

#### Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

#### Narrative

Job Narrative 890-1425-1

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### **Receipt Exceptions**

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PH03D (890-1425-1) and PH03E (890-1425-2). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>. coc: PH03D 10-8-21 1308 PH03E 10-8-21 1345

Samples: PH03C 10-8-21 1308 PH03D 10-8-21 1345

Analysis for TPH 8015, BTEX 8021, CHLORIDE for the following samples were put on hold by the client on 10/14/2021: PH03D (890-1425-1) and PH03E (890-1425-2). This analysis was originally requested on the chain-of-custody (COC).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03D (890-1425-1) and (890-1456-A-1-C). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10061 and analytical batch 880-10051 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.

Job ID: 890-1425-1 SDG: 31402909.130

# Client Sample ID: PH03D

Method: 8021B - Volatile Organic Compounds (GC)

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 13:08 Date Received: 10/14/21 12:12

Sample Depth: 9

Client: WSP USA Inc.

SDG: 31402909.13

### Lab Sample ID: 890-1425-1 Matrix: Solid

c: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
Toluene	0.00592		0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
Ethylbenzene	0.00529		0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
m-Xylene & p-Xylene	0.0186		0.00396	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
o-Xylene	0.0110		0.00198	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
Xylenes, Total	0.0296		0.00396	mg/Kg		10/21/21 10:15	10/21/21 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130			10/21/21 10:15	10/21/21 21:56	1
1,4-Difluorobenzene (Surr)	88		70 - 130			10/21/21 10:15	10/21/21 21:56	1
Method: Total BTEX - Total BTEX	(Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0408		0.00396	mg/Kg			10/28/21 17:22	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	315		49.9	mg/Kg		,	10/27/21 12:19	1
Method: 8015B NM - Diesel Rang	ne Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9		49.9	mg/Kg		10/21/21 09:42	10/21/21 18:34	1
(GRO)-C6-C10				0 0				
Diesel Range Organics (Over	315		49.9	mg/Kg		10/21/21 09:42	10/21/21 18:34	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/21/21 09:42	10/21/21 18:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/21/21 09:42	10/21/21 18:34	1
o-Terphenyl	106		70 - 130			10/21/21 09:42	10/21/21 18:34	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	521		5.05	mg/Kg			10/28/21 10:56	1
Client Sample ID: PH03E						Lab San	nple ID: 890-	1425-2
Date Collected: 10/08/21 13:45								x: Solid
Date Received: 10/14/21 12:12								
Sample Depth: 16								
-								
Method: 8021B - Volatile Organic Analyte		( <mark>GC)</mark> Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	- Kesun <0.00199		0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:16	1
		5						1
Toluene	0.00261		0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:16	-
Ethylbenzene	<0.00199		0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:16	
m-Xylene & p-Xylene	<0.00398	0	0.00398	mg/Kg		10/21/21 10:15	10/21/21 22:16	1

<0.00199	U	0.00199	mg/Kg	10/21/21 10:15	10/21/21 22:16	1
<0.00398	U	0.00398	mg/Kg	10/21/21 10:15	10/21/21 22:16	1
%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
129		70 - 130		10/21/21 10:15	10/21/21 22:16	1
	<0.00398 %Recovery	<0.00199 U <0.00398 U - <u>%Recovery</u> <u>Qualifier</u> 129	<0.00398 U 0.00398 <i>%Recovery Qualifier Limits</i>	<0.00398 U 0.00398 mg/Kg <u>%Recovery</u> Qualifier Limits	<0.00398         U         0.00398         mg/Kg         10/21/21 10:15           %Recovery         Qualifier         Limits         Prepared	<0.00398       U       0.00398       mg/Kg       10/21/21       10/21/21       22:16         %Recovery       Qualifier       Limits       Prepared       Analyzed

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Page 5 of 20

Project/Site: Azores Fed Com 4H

**Client Sample ID: PH03E** 

# **Client Sample Results**

Job ID: 890-1425-1 SDG: 31402909.130

# Lab Sample ID: 890-1425-2

Matrix: Solid

5

Date Collected: 10/08/21 13:45 Date Received: 10/14/21 12:12

Sample Depth: 16

Client: WSP USA Inc.

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	86		70 - 130			10/21/21 10:15	10/21/21 22:16	1
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			10/28/21 17:22	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			10/27/21 12:19	
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)		Qualifier U U	RL 49.9 49.9 49.9	Unit mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 10/21/21 09:42 10/21/21 09:42 10/21/21 09:42	Analyzed 10/21/21 18:54 10/21/21 18:54 10/21/21 18:54	Dil Fac 1 1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<b>Result</b> <49.9 <49.9	Qualifier U U U	49.9	mg/Kg mg/Kg	<u> </u>	10/21/21 09:42 10/21/21 09:42	10/21/21 18:54 10/21/21 18:54	Dil Fac 1 1 1 Dil Fac
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 U U	49.9 49.9 49.9	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42	10/21/21 18:54 10/21/21 18:54 10/21/21 18:54	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result           <49.9	Qualifier U U U	49.9 49.9 49.9 Limits	mg/Kg mg/Kg	<u> </u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b>	10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 <b>Analyzed</b>	1
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 U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42           10/21/21 09:42           10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 <u>Analyzed</u> 10/21/21 18:54	1
Analyte         Gasoline Range Organics         GRO)-C6-C10         Diesel Range Organics (Over         C10-C28)         Oll Range Organics (Over C28-C36)         Surrogate         1-Chlorooctane         p-Terphenyl	Result           <49.9	Qualifier U U Qualifier	49.9 49.9 49.9 <u>Limits</u> 70 - 130	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42           10/21/21 09:42           10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 10/21/21 18:54 <u>Analyzed</u> 10/21/21 18:54	1

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

### Matrix: Solid

-				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-1425-1	PH03D	149 S1+	88		
890-1425-2	PH03E	129	86		
890-1456-A-1-B MSD	Matrix Spike Duplicate	121	85		
890-1456-A-1-D MS	Matrix Spike	121	112		
LCS 880-10041/1-A	Lab Control Sample	109	102		
LCSD 880-10041/2-A	Lab Control Sample Dup	110	93		
MB 880-10041/5-A	Method Blank	106	99		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				

DFBZ = 1,4-Difluorobenzene (Surr)

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

#### Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
96-A-1-B MS	Matrix Spike	111	106	
96-A-1-C MSD	Matrix Spike Duplicate	117	115	
425-1	PH03D	101	106	
125-2	PH03E	101	108	
-10061/2-A	Lab Control Sample	104	103	
880-10061/3-A	Lab Control Sample Dup	101	102	
0-10061/1-A	Method Blank	106	116	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Prep Type: Total/NA

Prep Type: Total/NA

Page 94 of 286

|2 |3

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

Lab Sample ID: MB 880-10041/5-A	

#### Matrix: Solid Analysis Batch: 10083

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/21/21 10:15	10/21/21 15:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/21/21 10:15	10/21/21 15:47	1

#### Lab Sample ID: LCS 880-10041/1-A Matrix: Solid

## Analysis Batch: 10083

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	
Toluene	0.100	0.08587		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 _ 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08832		mg/Kg		88	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

## Lab Sample ID: LCSD 880-10041/2-A

## Matrix: Solid

Analysis Batch: 10083							Prep	Batch:	10041
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.08951		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08985		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09454		mg/Kg		95	70 - 130	7	35

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

# Lab Sample ID: 890-1456-A-1-B MSD

#### Matrix: Solid .....

Analysis Batch: 10083									Pre	p Batch:	10041
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.05173		mg/Kg					
Toluene	<0.00202	U	0.100	0.07158		mg/Kg					

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

**Client Sample ID: Method Blank** 

# Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

**Client Sample ID: Matrix Spike Duplicate** 

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1425-1 SDG: 31402909.130

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

Lab Sample ID: 890-1456-A-1-I Matrix: Solid	5 WISD							uller	IT 58		: Matrix Spil		-
											Prep Ty	-	
Analysis Batch: 10083	Sample S	Samn		Spike	MSD	MSD					Prep E %Rec.	batch.	RP
Analyte	Result C			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00202	-		0.100	0.07812	Quaimer	mg/Kg		<u> </u>	/01.00			
m-Xylene & p-Xylene	<0.00403 L			0.201	0.1557		mg/Kg						
o-Xylene	<0.00202 L	J		0.100	0.07460		mg/Kg						
	MSD M	MSD											
Surrogate	%Recovery G	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	121			70 - 130									
1,4-Difluorobenzene (Surr)	85			70 - 130									
Lab Sample ID: 890-1456-A-1-I	DMS									Client	Sample ID: I	Matrix	c Spik
Matrix: Solid											Prep Ty		
Analysis Batch: 10083													
	MS N	MS											
Surrogate	%Recovery G	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	121			70 - 130									
1,4-Difluorobenzene (Surr)	112			70 - 130									
ethod: 8015B NM - Diese													
Matrix: Solid										onent o	ample ID: M Prep Ty Prep E	pe: To	otal/N
Matrix: Solid Analysis Batch: 10051	r	мв									Prep Ty Prep E	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 ^{Analyte}	Res	sult	Qualifier	RL		Unit		D	Pi	repared	Prep Ty Prep E Analyzed	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	Res		Qualifier			Unit mg/K	g	<u>D</u> .	Pi		Prep Ty Prep E	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50	sult	Qualifier U					<u>D</u>	<b>Pi</b> 10/2	repared	Prep Ty Prep E Analyzed	pe: To Batch: 1 :42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Res <50	<b>sult</b> 0.0	<b>Qualifier</b> U U	50.0		mg/k	g	<u>D</u> .	<b>Pi</b> 10/2 10/2	<b>repared</b> 1/21 09:42	Prep Ty           Prep E           Analyzed           10/21/21 11	<b>pe: Tc</b> Batch: 1 :42 :42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	 Res <50 <50 <50 <50	<b>Sult</b> 50.0 50.0 50.0 <b>MB</b>	Qualifier U U U MB	50.0 50.0 50.0		mg/k	g	<u>D</u>	<b>Pi</b> 10/2 ⁻¹ 10/2 ⁻¹	repared 1/21 09:42 1/21 09:42 1/21 09:42	Prep Ty Prep E <u>Analyzec</u> 10/21/21 11 10/21/21 11 10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	Res <50 <50 <50 <50 %Recove	sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	Qualifier U U U MB	50.0 50.0 50.0 <i>Limits</i>		mg/k	g	<u>D</u> .	Pr 10/2 ⁻¹ 10/2 ⁻¹ 10/2 ⁻¹ Pr	repared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42 repared	Prep Ty Prep E <u>Analyzec</u> 10/21/21 11 10/21/21 11 10/21/21 11 <u>Analyzec</u>	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Res <5( <5( 	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g	<u>D</u> .	Pi 10/2 10/2 10/2 Pi 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42	Prep Ty           Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42 <b>b</b> :42	Dill F
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate I-Chlorooctane	Res <5( <5( 	sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	Qualifier U U U MB	50.0 50.0 50.0 <i>Limits</i>		mg/k	g	<u>D</u> .	Pi 10/2 10/2 10/2 Pi 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42 repared	Prep Ty           Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42 <b>b</b> :42	Dil F
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11 <i>Analyzed</i> 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11	<b>pe: To</b> <b>Batch:</b> <b>1</b> :42 :42 :42 :42 <b>1</b> :42 <b>1</b> :42 <b>1</b> :42 <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/k mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11 <i>Analyzed</i> 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Basoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	LCS	mg/k mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> 70.130 70.130 <b>Spike</b>	LCS	mg/k mg/k mg/k	a		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 Spike Added	LCS Result	mg/k mg/k mg/k	g g <u>Unit</u>		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50 <50 <50 // // // // // // // // // //////////	sult 0.0 0.0 0.0 <b>MB</b> 106 116	Qualifier U U U MB	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u> 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Prep Ty Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor Prep Ty Prep E           %Rec.           Limits           70 - 130	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	N Res <5( <5( <i>%Recove</i> 1 1/2-A	sult 0.0 0.0 0.0 MB ery 106 116	Qualifier U U MB Qualifier	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u> 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Prep Ty Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor Prep Ty Prep E           %Rec.           Limits           70 - 130	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa Dil Fa Dil Fa
Lab Sample ID: MB 880-10061/ Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Res <5( <5( // %Recove 1 1/2-A	sult 0.0 0.0 0.0 MB ery 106 116	Qualifier U U MB Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 1000	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Prep Ty Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor Prep Ty Prep E           %Rec.           Limits           70 - 130	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa Dil Fa Dil Fa

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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Job ID: 890-1425-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-1	0061/3-A					Clier	nt Sam	ple ID:	Lab Contro		-
Matrix: Solid										ype: To	
Analysis Batch: 10051										Batch:	
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	886.7		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	851.4		mg/Kg		85	70 - 130	3	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	101		70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: 880-7396-A	-1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051										Batch:	
	Sample	Sample	Spike	MS	MS				«Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	1000	1264		mg/Kg		126	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over	69.3		1000	1021		mg/Kg		95	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	106		70 - 130								
Lab Sample ID: 880-7396-A	-1-C MSD					CI	ient Sa	ample IC	: Matrix Sp	oike Dup	olicate
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 10051									Prep	Batch:	10061
-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U F1	997	1312	F1	mg/Kg		132	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	69.3		997	1071		mg/Kg		101	70 - 130	5	20
/	M00	MSD									
Surrogate			Limito								
Surrogate	%Recovery	Qualifier	Limits								
			70 400								
1-Chlorooctane o-Terphenyl			70 ₋ 130 70 ₋ 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10654/1-A Matrix: Solid Analysis Batch: 10793							Client Sa	ample ID: Metho Prep Type:	
		МВ	МВ						
	Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	<5.00	U	5.00	mg/Kg			10/28/21 10:03	1

Page 97 of 286

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

## Job ID: 890-1425-1 SDG: 31402909.130

Method: 300.0 - Anions, Ion Chromatography (Continued)

- Lab Sample ID: LCS 88	80-10654/2-4						Client	Sample	D: Lab C	ontrol S	amnlo
Matrix: Solid	00-10004/2-74						Unern	Campic		Type: S	
Analysis Batch: 10793										.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	010010
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		
Lab Sample ID: LCSD	880-10654/3-A					Clier	nt Sam	nple ID: I	Lab Contro	ol Sampl	e Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 10793	}										
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	245.8		mg/Kg		98	90 _ 110	2	20
- Lab Sample ID: 890-14	23-A-1-J MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										Type: S	
Analysis Batch: 10793	}										
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1020		253	1281	4	mg/Kg		103	90 _ 110		
- Lab Sample ID: 890-14	23-A-1-K MSD					CI	ient Sa	ample IC	): Matrix S	oike Dup	olicate
Matrix: Solid								-		Type: S	
Analysis Batch: 10793	•									-	
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1020		253	1272	4	mg/Kg		100	90 - 110	1	20

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

### Prep Bat

): 890-1425-1	
1402909.130	

Prep Batch: 10041					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1425-1	PH03D	Total/NA	Solid	5035	
890-1425-2	PH03E	Total/NA	Solid	5035	
MB 880-10041/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10041/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10041/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1456-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
Analysis Batch: 10083					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batc
890-1425-1	PH03D	Total/NA	Solid	8021B	1004
890-1425-2	PH03E	Total/NA	Solid	8021B	1004
MB 880-10041/5-A	Method Blank	Total/NA	Solid	8021B	1004
LCS 880-10041/1-A	Lab Control Sample	Total/NA	Solid	8021B	1004
LCSD 880-10041/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	1004
890-1456-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	1004
890-1456-A-1-D MS	Matrix Spike	Total/NA	Solid	8021B	
Analysis Batch: 10878					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batc
890-1425-1	PH03D	Total/NA	Solid	Total BTEX	
890-1425-2	PH03E	Total/NA	Solid	Total BTEX	
GC Semi VOA					

# Analysis Batch: 10051

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1425-1	PH03D	Total/NA	Solid	8015B NM	10061
890-1425-2	PH03E	Total/NA	Solid	8015B NM	10061
MB 880-10061/1-A	Method Blank	Total/NA	Solid	8015B NM	10061
LCS 880-10061/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10061
LCSD 880-10061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10061
880-7396-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	10061
880-7396-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10061

### Prep Batch: 10061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1425-1	PH03D	Total/NA	Solid	8015NM Prep	
890-1425-2	PH03E	Total/NA	Solid	8015NM Prep	
MB 880-10061/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10061/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10061/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-7396-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-7396-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1425-1	PH03D	Total/NA	Solid	8015 NM	
890-1425-2	PH03E	Total/NA	Solid	8015 NM	

# **QC** Association Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1425-1 SDG: 31402909.130

## HPLC/IC

## Leach Batch: 10654

_ab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
390-1425-1	PH03D	Soluble	Solid	DI Leach	
390-1425-2	PH03E	Soluble	Solid	DI Leach	
VIB 880-10654/1-A	Method Blank	Soluble	Solid	DI Leach	
CS 880-10654/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
CSD 880-10654/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1423-A-1-J MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1423-A-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
alysis Batch: 10793					
	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
ab Sample ID		Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 10654
ab Sample ID 90-1425-1	Client Sample ID				
ab Sample ID 90-1425-1 90-1425-2	Client Sample ID PH03D	Soluble	Solid	300.0	10654
Lab Sample ID 190-1425-1 190-1425-2 MB 880-10654/1-A	Client Sample ID PH03D PH03E	Soluble	Solid Solid	300.0 300.0	10654 10654
ab Sample ID 390-1425-1 390-1425-2 //B 880-10654/1-A .CS 880-10654/2-A	Client Sample ID PH03D PH03E Method Blank	Soluble Soluble Soluble	Solid Solid Solid	300.0 300.0 300.0	10654 10654 10654
Alysis Batch: 10793 .ab Sample ID 390-1425-1 390-1425-2 MB 880-10654/1-A .CS 880-10654/2-A .CSD 880-10654/3-A 390-1423-A-1-J MS	Client Sample ID PH03D PH03E Method Blank Lab Control Sample	Soluble Soluble Soluble Soluble	Solid Solid Solid Solid	300.0 300.0 300.0 300.0	10654 10654 10654 10654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1425-1	PH03D	Soluble	Solid	300.0	10654
890-1425-2	PH03E	Soluble	Solid	300.0	10654
MB 880-10654/1-A	Method Blank	Soluble	Solid	300.0	10654
LCS 880-10654/2-A	Lab Control Sample	Soluble	Solid	300.0	10654
LCSD 880-10654/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10654
890-1423-A-1-J MS	Matrix Spike	Soluble	Solid	300.0	10654
890-1423-A-1-K MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	10654

Job ID: 890-1425-1 SDG: 31402909.130

# Lab Sample ID: 890-1425-1

**Client Sample ID: PH03D** Date Collected: 10/08/21 13:08 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 21:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 18:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 10:56	СН	XEN MID

### **Client Sample ID: PH03E** Date Collected: 10/08/21 13:45

Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 22:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 11:13	СН	XEN MID

#### Laboratory References:

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

# Matrix: Solid

### Lab Sample ID: 890-1425-2 Matrix: Solid

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# Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1425-1 SDG: 31402909.130

### Laboratory: Eurofins Xenco, Midland

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

uthority		ogram	Identification Number	Expiration Date	
xas	NELAP		T104704400-21-22		
The following analytes	are included in this report by	ut the laboratory is not certif	ied by the governing authority. This list ma	av include analytes for w	
the agency does not o	fer certification.	·		,, ,	
• ,		Matrix	Analyte		
the agency does not o	fer certification.	·			

Project/Site: Azores Fed Com 4H

# Job ID: 890-1425-1

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:

Client: WSP USA Inc.

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

SDG: 31402909.130

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8	
9	
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# **Sample Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1425-1 SDG: 31402909.130

Depth	Received	Collected	Matrix	Client Sample ID	Lab Sample ID
 9	10/14/21 12:12	10/08/21 13:08	Solid	PH03D	890-1425-1
16	10/14/21 12:12	10/08/21 13:45	Solid	PH03E	890-1425-2

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www.xenco.com         work Order Cc         erogram:       Work Order Cc         state of Project:       Reporting Level []       Level []       PST/U         state of Project:       Reporting Level []       Level []       PST/U         peliverables:       EDD []       ADaPT         AMALYSIS       REOUEST       ADaPT         AMALYSIS       REOUEST       ADaPT         State of Project:       Reporting Level []       Level []       PST/U         B0       ADaPT       MON       ADaPT       ADaPT         State of Cu Co       State of Custody       State of Custody       State of Custody       State of Custody         B0       AS Ba Be B Cd Ca Cr Co Cu Fo Pb Mg Mn Mo NI K Se Ag Sto2 r       Sto2 r       Sto3 r       Sto2 r         Sto As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag Ti U       1631       1631       1631         Sto As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag Ti U       1631       1631       1631         Sto As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag Ti U       1631       1631       1631         Sto As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag Ti U       1631       1631       1631         Sto As Ba Be Cd Cr Co Cu Pb Mn Mo NI Se Ag Ti U       1631       1631       1631         Sto As	Ensure finanze         Kalia - January Name         Bits // statem         Page 1 of 1           Ensure finanze         Midde:         State // Statem         State // Statem         Non Kort/N - Statem         State // Statem         Non Kort/N - Sta	9 - <u>S</u>	Relinquished by: (Signau				-			- mark
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Brownfi Brownfi ADaPT SiO2 N 1631	Brownfill Brownfill ADaPT SiO2 N 1631	- <u>S</u>			Dat	(Signature)	Received by:	e)	¥∕¶Signatur	Relinquished b
Brownfi Brownfi ADaPT ADaPT SiO2 N 1631	Brownfi Brownfi ADaPT SiO2 N SiO2 N	$\odot$	ts affiliates and subcontractors. It average the client if such losses are du tanalyzed. These terms will be enfort	mpany to Xenco, it r expenses incurr to Xenco, but not	<ul> <li>from client cor or any losses o nple submitted</li> </ul>	tes a valid purchase orde sume any responsibility t charge of \$5 for each sat	samples constitues and shall not as each project and a	relinquishment of the cost of sample will be applied to	s document and e liable only for harge of \$75.00	lotice: Signature of this of service. Xenco will b of Xenco. A minimum c
anager         Kalei Jennings         Bill to // detreenty         Mill to // detreenty         Mill to // detreenty         Monto Street         Program: USTRST Per Bonding Level I         Program: USTRST Per IS Bonding Level I <t< td=""><td>Tanga Production Factors       Name       Nume Colspan="2"&gt;Nume Colspan="2"         Nume       Sign Africt of answer       Nume Colspan="2"       Nume Colspan="2"</td><td>Mg Mn Mo Ni K Se Ag Si</td><td>Cd Cr Co Cu Pb Mn Mc</td><td>As Ba Be</td><td>RCRA Sb</td><td>LP / SPLP 6010: (</td><td>ilyzed TC</td><td>al(s) to he ana</td><td>(s) and Met</td><td>Circle Method</td></t<>	Tanga Production Factors       Name       Nume Colspan="2">Nume Colspan="2"         Nume       Sign Africt of answer       Nume Colspan="2"	Mg Mn Mo Ni K Se Ag Si	Cd Cr Co Cu Pb Mn Mc	As Ba Be	RCRA Sb	LP / SPLP 6010: (	ilyzed TC	al(s) to he ana	(s) and Met	Circle Method
Banger     Kalei Jennings     Bill to (raterent)       Name     VSP USA.     Company Name       3000 North A Siret     Company Name     State 21P       ame     Azores Fed Com 4H     Tum Around       mmer:     1402309 130     Finali Jaglei Jennings@web com       Name     Faitna Smith     Lee County       LE RECEIPT     Terp Blank (w) No     Wet Ice       Innact:     Visit No     Wet Ice       PH03C     S 106/2021     1306       PH03D     S 106/2021     1306       9     1     TPH (EPA 6015)       800-1425     Tain       PH03D     S 106/2021       9     1       PH03D     S 106/2021       1345     16       1     TPH (EPA 6015)       800-1425     Tain of Custory       800-1425     Tain of Custory	Aname     Name     Top of the unit of the u		Cd Ca Cr Co Cu Fe Pt	As Ba Be B	1 AI Sb /	13PPM Texas	8RCR/	).8 / 6020:		Total 200.7 / 6
Banger     Kalei Jennings     Bill h; (rateren)       Name     3300 North A Street     Company Name       3300 North A Street     Address       me     Azores Fed Com 4H     Tum Avoind       ILE RECEIPT     Terp Blank (kale jenning@wsp.com)     Autysis REOLEST       ILE RECEIPT     Terp Blank (kale jenning@wsp.com)     Autysis REOLEST       Index:     Ves. No     No       Index:     Ves. No     Ves. No	Ianager       Kalei Jennings       Omgany Kalei Jennings       Owner Company Vaneues         1300 North A Street       Company Vaneues       Company Vaneues       Program: USTPS [] PRE]       Program: USTPS [] PRE] </td <td></td> <td></td> <td></td> <td>Z</td> <td></td> <td></td> <td></td> <td></td> <td></td>				Z					
Janager         Kalei Jennings         Bill to: (// affreent)         Bill to: (// affreent)         With With With With With Water         Work Order Cor         Work Order Cor           2/P         Midland, TX 79705         Cm/gany Name.         Company Name.         State 2/P         Project:         State of Project:         State of Project:         State of Project:         <	Image:       Kale Jennings       Bill to (referent)       Wark Concerctor         Aname       VSP USA       Company Name       Company Name       Status of Project:       Program: USTPST_PRT_Brown       Program: USTPST_Brown       Program: USTPST				-					
Banager         Kalei Jennings         Bill to: (Jaffrever)         WWW Xenco.com           Anne         WGP USA         Company Name         State of Project:         Program: USTPGT]         PRCI PRCI         State of Project:         Rounding:         Rounding:         Nonth A Street         Address:         Nonth A Street         PROJECT         PROJECT         PROJECT         PROJECT         Rounding:	Ianager       Kalei Jennings       Bill to: (I afferent)       Mana, GA (700) 4404000       Ware Cran (100) 4404000       Work Order Company Name:       Work Order Company Name:       Work Order Company Name:       Program: UST/PST    PFL    Brown         anaer       3100 North Street       Address       City, Sala ZIP       Program: UST/PST    PFL    Brown       State of Projet:       Reporting Lavel    Level    PSTU       Putwarables: EDD    ADPT       Adatass         Name       Failing Smith       Lea County       Rush:       Adatass       Putwarables: EDD    ADPT       Adatass         Intract:       Lea County       Rush:       Lea County       Rush:       Adatass       Adatass         Intract:       Lea County       Rush:       Lea County       Rush:       Adatass       Adatass       Adatass         Intract:       Lea County       Rush:       Lea County       Rush:       Adatass       Adatass       Adatass         Intract:       Lea County       Rush:       Lea County       Rush:       Adatass       Adatass       Adatass       Adatass       Adatass       Adatass       Adat									
Ianager     Kalei Jennings     Bill by (u afficent)     WWW Kenco company Name       2P     Midland, TX 79705     Cmpany Name     State of Project:       ame     Azores Fed Com 4H     Tum Around     State of Project:       umber:     1402009 130     Email: kalei ennings@wsp.com     Address:       umber:     1402009 130     Routine:     X       unaber:     Faima Smith     Due Dalte:     Address:       unaber:     Faima Smith     Due Dalte:     Address:       unaber:     Faima Smith     Due Dalte:     Address:       PH03D     5     10/8/2021     1308     9'       PH03D     5     10/8/2021     1345     16'       PH03D     5     10/8/2021     1345     16'	Ianager       Kalei Jennings       Bill to: (r different)       Mains, GA (700) 442-800       Mains, GA (70									
Ianager     Kalei Jennings     Bill to: (II different)     WWW.YENCO.0001       Anne     WSP USA     Company Name     WSP USA       3300 North A Street     Address:     Company Name     Program: USTPSTI PREI Brown fill       ame     Azores Fed Com 4H     Tum Around     Address:       umber:     3402:903     Email (ale) enning@wsp.com     Antrysts REOUEST       umber:     1402:909     Nu     Tum Around     Address:       ustody Seals     Yes No     Work Conterior     Appring Level [ PSTU       Intact:     Failing Smith     Due Date:     Appring Level [ PSTU       Intact:     Failing Smith     Due Date:     Appring Level [ PSTU       Intact:     Yes No     With Contenion Factor:     Circle (Sign No       PH03C     S     10/8/2021     1306     9'       PH03D     S     10/8/2021     1345     16'	anger       Kalei Jennings       Bill () (// diferent)       Bill () (// diferent)       Clays (A(770) 449-800)       Wark (A(770) 449-800)       Wark (A(770) 449-800)         Aname       VSP USA       Company Name       Company Name       Program: UST PRE]       Program: UST PST []       Progra					Xar 1	-+			
lanager       Kalei Jennings       Bill to: (f afferent)       WWW VENCO COM         VAnne       WSP USA       Company Name.       Work Order Cc         3300 North A Street       Address:       Company Name.       Program: USTPST    PRF	anager       Kalei Jennings       Bill to: (I different)       Mana, CA (770) 440-800       With VA       Ministere									
Ianager:       Kalei Jennings       Bill to. (r dimenu)       WWW XENCO. Company Name:       Work Order Company Name:         3300 North A Street:       Address:       Company Name:       Program: USTPST[] PRE]	anager       Kalei Jennings       Bill to (# different)       Maina GA (770) (Jacov 4, Jonary Bala)       Maina GA (770) (Jacov 4, Jonary Bala)       Multication (Mainabaser, Transport, Liver)       Multication (Mainabaser, Liver)       Mu						4			
Ianager       Kalei Jennings       Bill to: (rafferen)       WWW.YENCO.com         Name       WSP USA       Company Name:       WSP USA       Work Order Cc         3300 North A Street       Address       Address       Program: UST/PST]       Program: UST/PST]         2IP       Midland, TX 79705       Email: kalei jenning@wsp.com       Program: UST/PST]       Program: UST/PST]       Program: UST/PST]         ame       Azores Fed Com 4H       Turn Around       State of Project:       Reporting Level ]       Level ]       PST/U         umber       31402909.130       Routine:       X       X       Lea County       Rush:       Adaetes         Name       Fallma Smith       Lea County       Rush:       X       Adaetes       ADaetes         Innet:       Ves       No       No       Wet Lee:       No       No       Adaetes         Innet:       Ves       No       No       No       No       Adaetes       Adaetes         PH03C       S 100/2021       Sampled       Sampled       Sampled       Sampled       Sampled       Sampled       Adaetes         PH04D       S 100/2021       Sampled       Sampled       Sampled       Sampled       Sampled       Sampled       Adaete	langer       Kalei Jennings       Midland, TX 79705       Bill to: (r atream)       Work Order Company Name:       Work Order Company Name:       Normality					•				סחד
Ianager     Kalei Jennings     Bill to: (ridfleren)     WWW.YENCO. com       Name:     WSP USA     Company Name:     Work Order Cc       3300 North A Street     Address     Address     Program: UST/PST] PRF]     Program: UST/PST] PRF]       ame:     Azores Fed Com 4H     Turn Around     State of Project:       ame:     Azores Fed Com 4H     Turn Around     Address       umber:     1402309 130     Routine:     Address       umber:     Fatima Smith     Due Date:     Project:       LE RECEIPT     Terpp Blank     Email kalei ennings@wsp.com     ANALYSIS REQUEST       ustody Seals:     Yes No     Work Corder CC       water (°C):     2.4 (2.2 C     Thermometer ID       Inme:     Total Containers     Thermometer ID       Watory Seals:     Yes No     Orrection Factor:       vasiody Seals:     Yes No     Orrection Factor:       90:0-1425 Chain of Custody     90:0-1425 Chain of Custody <td>Ianager.       Kalei Jennings       Bill to: (r different)       Manta, GA (770) 448800       Wanta, GA (770) 448800&lt;</td> <td></td> <td></td> <td></td> <td>-</td> <td>+</td> <td>10/8/2021</td> <td></td> <td></td> <td></td>	Ianager.       Kalei Jennings       Bill to: (r different)       Manta, GA (770) 448800       Wanta, GA (770) 448800<				-	+	10/8/2021			
Ianager       Kalei Jennings       Bill Io. (I different)       WWW.Xenco.com         Name       WSP USA       Company Name:       Company Name:       Program: USTPST[] PRF]       Program: USTPST[] PRF]       Bownin         2IP:       Midland, TX 79705       Email: Kalei jennings@wsp.com       Frains: USTPST[] PRF]       Bownin       State of Project:       Program: USTPST[] PRF]       Bownin         ame:       Azores Fed Com 4H       Tum Around       Xence       No       No       Program: USTPST[] PRF]       Bownin         umber:       31402209 130       Routine:       Xence       No       No <td< td=""><td>Iangager       Kalei Jennings       Bit Io: (ratificeren)       Warra GA (770) 40-800       Warra GA (770) 40-800</td><td></td><td></td><td></td><td>-`</td><td></td><td>10/8/2021</td><td></td><td>3C</td><td>PHO</td></td<>	Iangager       Kalei Jennings       Bit Io: (ratificeren)       Warra GA (770) 40-800				-`		10/8/2021		3C	PHO
Ianager       Kalei Jennings       Bill to. (if different)       WWW.XENCO.COM         Name       WSP USA       Company Name:       Moderess:       Work Order Cc         3300 North A Street       Address:       Address:       Program: UST/PST[] PR[] Brownfi         3300 North A Street       Address:       City, State ZIP.       Program: UST/PST[] PR[] Brownfi         ame:       Azores Fed Com 4H       Turn Around       Reporting: Evel [] Evel [] PST/U         ame:       Azores Fed Com 4H       Turn Around       Adaress:         umber:       31402909.130       Routine:       A         s Name:       Fatima Smith       Due Date:       ADaPT         LE RECEIPT       Temp Blank:       Wet Ice:       S No         under (*C):       2.4       Z.2       Thermometer ID         Imad:       Ves No       Moral Containers       S00-1425 Chain of Custody         Stato of Custody       S01425 Chain of Custody       S02-1425 Chain of Custody	Ianager       Kalei Jennings       Bill to: (if different)       Atlanta, GA (770) 449.800       WWW Xenco.com         Aname       WSP USA       Company Name:       Company Name:       Program: UST/PST        Program: UST/PST        Program: UST/PST        Program: UST/PST        Project:       Project:       Project:       Project:       State of Project:       Project	Samp						Matrix	ntification	Sample Ide
lanager:       Kalei Jennings       Bill to: (r different)       WWW.xenco.com         Name:       WSP USA       Company Name:       Company Name:       Program: UST/PST[] PRF[] Brownfi         3300 North A Street       Address:       Address:       Program: UST/PST[] PRF[] Brownfi         2IP:       Midland, TX 79705       Email: kalei.jennings@wsp.com       Program: UST/PST[] PRF[] Brownfi         ame:       Azores Fed Com 4H       Tum Around       Reporting: Level [] PST/U         umber:       31402909.130       Routine:       X         Name:       Fatima Smith       Due Date:       ADaPT         LE RECEIPT       Temp Blank:       No       No       Wet Lee:       No         Under:       Ves. No       Moderes:       No       Ves. No       PA         Ustody Seals:       Yes. No       Moderector:       C0 / 2       Containers         90-1425       Chain of Custody       400-1425       400-1425       400-1425	Hangar, FL(31) pour-uou, unargioreau, Loval Journay Level, Landiausser, FL (SA) Address:       Multina, GA (770) 44800       Www.xenco.com         Atlanta, TX 79705       Bill to: (if different)       Company Name:       Program: UST/PST] PRF] Brownfi       Program: UST/PST] PRF] Brownfi         ame:       Azores Fed Com 4H       Turn Around       City, State ZIP:       Program: UST/PST] PRF] Brownfi       State of Project:         ame:       Azores Fed Com 4H       Turn Around       AuALYSIS REOUEST       Reporting Level [] Level [] ADPT       PST/U         amme:       Fatima Smith       Due Daite:       Alainers       ADPT       ADPT         LE RECEIPT       Temp Blank:       No       Wet Lee:       Cisi No       No       No         Imad:       Ves No       Orrection Factor:       Cisi Reoutine:       Sign A       Sign A       Sign A         March (Cisi)       Ves No       Orrection Factor:       Cisi A       Sign A       Sign A       Sign A         March (Cisi)       Ves No       Orrection Factor:       Cisi A       Sign A       Sign A       Sign A         Bill to:       Wet Lee:       Cisi B       Sign A       Sign A       Sign A       Sign A		-	-	-	S.	Total Container	NO NIA	-	Sample Custody Se
lanager       Kalei Jennings       Bill to: (if different)       WWW. Xenco. com         Name:       WSP USA       Company Name:       Company Name:       Work Order Comm         21P:       Midland, TX 79705       City, State ZIP:       Address:       Frogram: UST/PST        PRF        Brownfield         ame:       Azores Fed Com 4H       Turn Around       Multiple       Analysis REQUEST       Reporting Level         PST/UL         umber:       31402309.130       Routine:       No       Analysis REQUEST       Apres       Apres         LE RECEIPT       Terp Blank:       Bulk (Briester D)       No       Multiple       No       No       No       No       No         Intact:       No       Internenter ID       No       N	Ianger: Kalei Jennings       Nume: Kalei Jennings       WWW.Xenco.com         Name:       Kalei Jennings       Bill to: (if different)       WW.Xenco.com       Work Order Comm         Alama, GA (770) 449800       WWW.Xenco.com       Forgram: UST/PST[] PRF[] Brownfield[       Program: UST/PST[] PRF[] Brownfield[         Alame:       Azores Fed Com 4H       Turn Around       Address:       Program: UST/PST[] PRF[] Brownfield[         umber:       3140/2909130       Email: kalei jennings@wsp.com       AnALVSIS REQUEST       Reporting.Level [] Evel [] PST/U[]         Name:       Failma Smith       Due Date:       ADaPT []       ADaPT []         Intact:       Wet Ice:       Image: No       No       Wet Ice:       Image: No		0			1	Correction Fact	NO NIA		Cooler Custody Sea
Ianager:       Kalei Jennings       Bill to: (if afferent)       WWW Xenco.com         Name:       WSP USA       Company Name:       Work Order Comm         3300 North A Street       Address:       Image:       North A Street       Program: UST/PST[] PRF]       Program: UST/PST[] PRF]       Brownfield         2IP:       Midland, TX 79705       Email:       kalei jennings@wsp.com       State of Project::       Reporting:Level [] Level [] PST/U§]         ame:       Azores Fed Com 4H       Turn Around       AnALYSIS REQUEST       ADaPT []       ADaPT []         umber:       31402309.130       Routine:       X       AnALYSIS REQUEST       ADaPT []         s Name:       Fatima Smith       Due Date:       Vel Lea County       Multice:       Yes No         LE RECEIPT       Temp Blank       No       Wet Ice:       Yes No       Yes No       Yes No         Le CEIPT       Thermometer ID       Image: No       Yes No       Yes No       Yes No       Yes No	Initial Server, L (ox) porcerver, L (ox) process, L			-		17	(M)			Received Intact:
Ianager:       Kalei Jennings       Bill to: (// dfferent)       WWW.XENCO.COM         Name:       WSP USA       Company Name:       Company Name:       Work Order Comm         3300 North A Street       Address:       Program: UST/PST PRF       Program: UST/PST PRF       Brownfield         e ZIP:       Midland, TX 79705       City, State ZIP:       Program: UST/PST PRF       Brownfield         (817) 683-2503       Email:       kalei.jennings@wsp.com       Engoting Level []       Pstruf]         ame:       Azores Fed Com 4H       Tum Around       AnALYSIS REQUEST       Deliverables: EDD       ADaPT []         wmber:       31402309 130       Routine:       X       AnALYSIS REQUEST       H       H         s Name:       Fatima Smith       Due Date:       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H       H	Image: Kalei Jennings       www.xenco.com         Ianager: Kalei Jennings       Bill to. (r different)       Witherent)       Www.xenco.com         Aname:       WSP USA       Street       Company Name:       Work Order Comm         2IP:       Midland, TX 79705       City, State ZIP:       Work Order Comm         ame:       Azores Fed Com 4H       Tum Around       Anatus@wsp.com       State of Project::         ame:       Azores Fed Com 4H       Tum Around       Anatysis REQUEST       Deliverables: EDD       Adarpt         s Name:       Fatima Smith       Due Date:       No       No       Wet Ice:       No       No       Net Ice:       No			-	ine	rmometer ID	The	N	r.	Temperature (°C):
Ianager:       Kalei Jennings       Bill to: (if different)       WWW.Xenco.com         Name:       WSP USA       Company Name:       Work Order Comm         3300 North A Street       Address:       Program: UST/PST[] PRF[] Brownfield[         EZIP:       Midland, TX 79705       City, State ZIP:       Program: UST/PST[] PRF[] Brownfield[         (817) 683-2503       Email: kalei jennings@wsp.com       Peporting:Level [] Level [] PST/UG]         ame:       Azores Fed Com 4H       Turn Around       ANALYSIS REQUEST         umber:       314022909.130       Rush:       Aldress:         Lea County       Rush:       Due Date:       Manutunumunumunumunumunumunumunumunumunumu	Tampa, FL (p1) pour 2000, Tampa, FL (p3) pour 2000, T				-	(ie)		Temp Blank:	EIPT	SAMPLE RECI
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Ianager:       Kalei Jennings       Bill to: (if different)       WWW.Xenco.com         Name:       WSP USA       Company Name:       Company Name:       Work Order Comm         3300 North A Street       Address:       Program: UST/PST    PRF    Brownfield       State of Project::         e ZIP:       Midland, TX 79705       City, State ZIP:       Program: UST/PST    PRF    Brownfield       State of Project::         e ZIP:       Midland, TX 79705       Email: kalei.jennings@wsp.com       Deliverables: EDD    ADaPT           ame:       Azores Fed Com 4H       Turn Around       ANALYSIS REQUEST       Deliverables: ED    ADaPT	Tampa, FL (or J) bZ/- ZOUV, Tallanassee, FL (oor) / DOUVH, Denay Decut, FL (oor) Courts         Allania, GA (770) 449-8800       WWX.Xencocom         Allania, GA (770) 449-8800       WWX.Xencocom         Vame:       WSP USA       Bill to: (if different)       Work Order Comprised         3300 North A Street       Address:       Program: UST/PST[] PRF]       Program: UST/PST[] PRF]       Brownfield[         e ZIP:       Midland, TX 79705       City, State ZIP:       City, State ZIP:       Reporting: Level [] Level [] PST/U4]       Beliverables: EDD [] ADaPT []       Poleiverables: EDD [] ADaPT []         ame:       Azores Fed Com 4H       Turn Around       ANALYSIS REQUEST       ADaPT []         Mible:       31402909.130       Routine:       X       Analysis Request       Analysis Request					Rush:	ty	Lea Coun		Location:
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Ianager:     Kalei Jennings     Bill to: (if different)       Name:     WSP USA     Company Name:       3300 North A Street     Address:	Iampa, FL (013) 020-2000, Tailaliassee, FL (003) 730-0747, Deray Deaul, FL (013)       Ianager:     Kalei Jennings       Name:     WSP USA       3300 North A Street     Address:				ZIP	City, State		TX 79705	Midland, T	City, State ZIP:
Kalei Jennings     Bill to: (if different)       WSP USA     Company Name:	Kalei Jennings     Bill to: (# different)       WSP USA     Company Name:					Address:		h A Street	3300 Nort	Address:
Kalei Jennings     Bill to: (// different)     Work Order Comme	I ampa, FL (813) 620-2000, Tailainassee, FL (900) 700-0141, Lettay beaut, FL (901) 000-0141         Atlanta, GA (770) 49-8800         Work Order Comme         Bill to: (if different)	Program: UST/PST PRF Brownfield RR			lame:	Company N			WSP USA	Company Name:
www.xenco.com	www.xenco.com	Work Order Comments			erent)	Bill to: (if diff		nings	Kalei Jenr	Project Manager:
	i ampa, FL (סוס) סבע-בעעע, railainassee, הר (סאט) גיטייטיאי, שמופץ שפטע, יי ב (סטי) איטייטייטי Allanta, GA (770) 449-8800									



Chain of Custody

13

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

Work Order No:

14

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1425 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1425-1

SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

Job Number: 890-1425-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 09:51 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1425 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Eurofins Xenco, Carlsbad Released to Imaging: 4/27/2022 11:07:44 AM Received by OCD: 3/18/2022 1:35:11 PM

# 1 2 3 4 5

# ANALYTICAL REPORT

America

**Environment Testing** 

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

# Laboratory Job ID: 890-1426-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H Revision: 1

# For:

eurofins 🔅

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/11/2021 10:21:52 AM

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

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

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

LINKS **Review your project** results through Total Access Have a Question? Ask-The Expert

Visit us at: www.eurofinsus.com/Env Released to Imaging: 4/27/2022 11:07:44 AM

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Laboratory Job ID: 890-1426-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

2

# **Definitions/Glossary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1426-1 SDG: 31402909.130

# Qualifiers

Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	4
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO		5
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	
Glossary		7
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	8
%R	Percent Recovery	
CFL	Contains Free Liquid	Q
CFU	Colony Forming Unit	
CNF	Contains No Free Liquid	
DER	Duplicate Error Ratio (normalized absolute difference)	
Dil Fac	Dilution Factor	
DL	Detection Limit (DoD/DOE)	
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample	
DLC	Decision Level Concentration (Radiochemistry)	
EDL	Estimated Detection Limit (Dioxin)	
LOD	Limit of Detection (DoD/DOE)	
LOQ	Limit of Quantitation (DoD/DOE)	
MCL	EPA recommended "Maximum Contaminant Level"	
MDA	Minimum Detectable Activity (Radiochemistry)	
MDC	Minimum Detectable Concentration (Radiochemistry)	
MDL	Method Detection Limit	
ML	Minimum Level (Dioxin)	
MPN	Most Probable Number	
MQL	Method Quantitation Limit	
NC	Not Calculated	
ND	Not Detected at the reporting limit (or MDL or EDL if shown)	
NEG	Negative / Absent	
POS	Positive / Present	
PQL	Practical Quantitation Limit	
PRES	Presumptive	
QC	Quality Control	
RER	Relative Error Ratio (Radiochemistry)	
RL	Reporting Limit or Requested Limit (Radiochemistry)	
RPD	Relative Percent Difference, a measure of the relative difference between two points	
TEF	Toxicity Equivalent Factor (Dioxin)	
TEQ	Toxicity Equivalent Quotient (Dioxin)	
TNTC	Too Numerous To Count	

## Job ID: 890-1426-1

## Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1426-1

#### REVISION

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to Per client email, requested depth 7' to be removed.

Report revision history

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### **Receipt Exceptions**

The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): PH02E (890-1426-1) and PH02F (890-1426-2). The container labels list <SAMPLE_ID>, while the COC lists <SAMPLEID>. The client was contacted, and the lab was instructed to <EXPLANATION_REQUIRED>. coc: PH02F 10-8-21 1229 PH02E 10-8-21 1221 Samples: PH02E 10-8-21 1229 PH02D 10-8-21 1221

Analysis for TPH 8015, BTEX 8021, CHLORIDE for the following samples were put on hold by the client on 10/14/2021: PH02E (890-1426-1) and PH02F (890-1426-2). This analysis was originally requested on the chain-of-custody (COC).

#### GC VOA

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

#### GC Semi VOA

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

#### HPLC/IC

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

# **Client Sample Results**

### **Client Sample ID: PH02E** Date Collected: 10/08/21 12:21 Date Received: 10/14/21 12:12

Sample Depth: 5

Method: 8021B - Volatile Orga	nic Compo	unds (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
Toluene	<0.00199	U	0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		10/21/21 10:15	10/21/21 22:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130			10/21/21 10:15	10/21/21 22:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130			10/21/21 10:15	10/21/21 22:36	1
 Method: Total BTEX - Total BT		tion						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398		0.00398	mg/Kg			10/28/21 17:22	1
	-0.000000	0	0.00000	mg/rtg			10/20/21 17.22	
Method: 8015 NM - Diesel Ran	nge Organic	s (DRO) (0	SC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	61.2		50.0	mg/Kg			10/27/21 12:19	1
Mothod: 2015P NM Dissol Pr								
Method: 8015B NM - Diesel Ra Analyte		Qualifier	(GC) RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0		50.0	mg/Kg		10/21/21 09:42	10/21/21 19:13	
(GRO)-C6-C10	<50.0	0	50.0	ing/itg		10/21/21 09.42	10/21/21 19:15	1
Diesel Range Organics (Over	61.2		50.0	mg/Kg		10/21/21 09:42	10/21/21 19:13	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/21/21 09:42	10/21/21 19:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			10/21/21 09:42	10/21/21 19:13	1
o-Terphenyl	106		70 - 130			10/21/21 09:42	10/21/21 19:13	1
 Method: 300.0 - Anions, Ion C	hromatogra	nhy - Solu	ible					
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	32.2		4.98	mg/Kg			10/28/21 11:19	1
	02.2							

5

Job ID: 890-1426-1 SDG: 31402909.130

# Lab Sample ID: 890-1426-1

Matrix: Solid

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

## Job ID: 890-1426-1 SDG: 31402909.130

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

-					
			-	Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
390-1426-1	PH02E	122	95		
Surrogate Legend					
BFB = 4-Bromofluo	robenzene (Surr)				
DFBZ = 1,4-Difluor	obenzene (Surr)				
	NM - Diesel Range O	rganics (DR	O) (GC)	Prep Type: Total/NA	
	NM - Diesel Range O	rganics (DR		Prep Type: Total/NA Recovery (Acceptance Limits)	
	NM - Diesel Range O	rganics (DR			
latrix: Solid	NM - Diesel Range O	<b>-</b> .	Percent Surrogate F		
latrix: Solid Lab Sample ID		1CO1	Percent Surrogate F		
latrix: Solid Lab Sample ID	Client Sample ID PH02E	1CO1 (70-130)	Percent Surrogate R OTPH1 (70-130)		
Lab Sample ID 890-1426-1	Client Sample ID PH02E	1CO1 (70-130)	Percent Surrogate R OTPH1 (70-130)		
Aatrix: Solid Lab Sample ID 890-1426-1 Surrogate Legend	Client Sample ID PH02E	1CO1 (70-130)	Percent Surrogate R OTPH1 (70-130)		

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

Lab Sample ID: MB 880-10041/5-A	
Matrix: Solid	

Analysis Batch: 10083							Prep Batch	n: 10041
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/21/21 10:15	10/21/21 15:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/21/21 10:15	10/21/21 15:47	1

#### Lab Sample ID: LCS 880-10041/1-A Matrix: Solid

## Analysis Batch: 10083

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	
Toluene	0.100	0.08587		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08832		mg/Kg		88	70 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

## Lab Sample ID: LCSD 880-10041/2-A

## Matrix: Solid

Analysis Batch: 10083							Prep	Batch:	10041
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.08951		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08985		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09454		mg/Kg		95	70 - 130	7	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

## Lab Sample ID: 890-1456-A-1-B MSD

#### Matrix: Solid Analysis Potoby 10092

Analysis Batch: 10083									Pre	p Batch:	10041
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.05173		mg/Kg					
Toluene	<0.00202	U	0.100	0.07158		mg/Kg					

Xenco, Carlsbad

Prep Type: Total/NA

**Client Sample ID: Method Blank** 

## **Client Sample ID: Lab Control Sample**

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

Eurofins Xenco,	Carlsb

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

## **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1426-1 SDG: 31402909.130

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

Lab Sample ID: 890-1456-A-1-I Matrix: Solid	5 WISD							uller	IT 58		: Matrix Spil		-
											Prep Ty	-	
Analysis Batch: 10083	Sample S	Samn		Spike	MSD	MSD					Prep E %Rec.	batch.	RP
Analyte	Result C			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00202	-		0.100	0.07812	Quaimer	mg/Kg		<u> </u>	/01.00			
m-Xylene & p-Xylene	<0.00403 L			0.201	0.1557		mg/Kg						
o-Xylene	<0.00202 L	J		0.100	0.07460		mg/Kg						
	MSD M	MSD											
Surrogate	%Recovery G	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	121			70 - 130									
1,4-Difluorobenzene (Surr)	85			70 - 130									
Lab Sample ID: 890-1456-A-1-I	DMS									Client	Sample ID: I	Matrix	c Spik
Matrix: Solid											Prep Ty		
Analysis Batch: 10083													
	MS N	MS											
Surrogate	%Recovery G	Quali	fier	Limits									
4-Bromofluorobenzene (Surr)	121			70 - 130									
1,4-Difluorobenzene (Surr)	112			70 - 130									
ethod: 8015B NM - Diese													
Matrix: Solid										onent o	ample ID: M Prep Ty Prep E	pe: To	otal/N
Matrix: Solid Analysis Batch: 10051	r	мв									Prep Ty Prep E	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 ^{Analyte}	Res	sult	Qualifier	RL		Unit		D	Pi	repared	Prep Ty Prep E Analyzed	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	Res		Qualifier			Unit mg/K	g	<u>D</u> .	Pi		Prep Ty Prep E	pe: To Batch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50	sult	Qualifier U					<u>D</u>	<b>Pi</b> 10/2	repared	Prep Ty Prep E Analyzed	pe: To Batch: 1 :42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Res <50	<b>sult</b> 0.0	<b>Qualifier</b> U U	50.0		mg/k	g	<u>D</u> .	<b>Pi</b> 10/2 10/2	repared 1/21 09:42	Prep Ty           Prep E           Analyzed           10/21/21 11	<b>pe: Tc</b> Batch: 1 :42 :42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	 Res <50 <50 <50 <50	<b>Sult</b> 50.0 50.0 50.0 <b>MB</b>	Qualifier U U U MB	50.0 50.0 50.0		mg/k	g	<u>D</u>	<b>Pi</b> 10/2 ⁻¹ 10/2 ⁻¹	repared 1/21 09:42 1/21 09:42 1/21 09:42	Prep Ty Prep E <u>Analyzec</u> 10/21/21 11 10/21/21 11 10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate	Res <50 <50 <50 <50 %Recove	sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	Qualifier U U U MB	50.0 50.0 50.0 <i>Limits</i>		mg/k	g	<u>D</u> .	Pr 10/2 ⁻¹ 10/2 ⁻¹ 10/2 ⁻¹ Pr	repared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42 repared	Prep Ty Prep E <u>Analyzec</u> 10/21/21 11 10/21/21 11 10/21/21 11 <u>Analyzec</u>	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	Res <5( <5( 	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g	<u>D</u> .	Pi 10/2 10/2 10/2 Pi 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42	Prep Ty           Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42 <b>b</b> :42	Dill F
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate I-Chlorooctane	Res <5( <5( 	sult 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.	Qualifier U U U MB	50.0 50.0 50.0 <i>Limits</i>		mg/k	g	<u>D</u> .	Pi 10/2 10/2 10/2 Pi 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 1/21 09:42 repared	Prep Ty           Prep E           Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11	<b>pe: Tc</b> <b>Batch:</b> :42 :42 :42 :42 <b>b</b> :42	Dil F
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11 <i>Analyzed</i> 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11	<b>pe: To</b> <b>Batch:</b> <b>1</b> :42 :42 :42 :42 <b>1</b> :42 <b>1</b> :42 <b>1</b> :42 <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b> <b>1</b>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130		mg/k mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11 <i>Analyzed</i> 10/21/21 11 10/21/21 11 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Basoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane D-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 50.0 <u>Limits</u> 70 - 130		mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	LCS	mg/k mg/k	g		<b>P</b> 1 10/2 10/2 10/2 <b>P</b> 1 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> 70.130 70.130 <b>Spike</b>	LCS	mg/k mg/k mg/k	a		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) DII Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50 <50 <50 // // // // // // // // // //////////	<b>Sult</b> 0.0 0.0 0.0 <b>MB</b> <b>rery</b> 106	Qualifier U U U MB	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 Spike Added	LCS Result	mg/k mg/k mg/k	g g <u>Unit</u>		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample %Rec	Prep Ty Prep E Analyzed 10/21/21 11 10/21/21 11 10/21	pe: To         Batch:         :42 <td:42< td=""> <td:42< td=""> <td:42< td="">         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42</td:42<></td:42<></td:42<>	Dil Fi Dil Fi Dil Fi
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Res <50 <50 <50 // // // // // // // // // //////////	sult 0.0 0.0 0.0 <b>MB</b> 106 116	Qualifier U U U MB	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u> 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty           Prep Ty           %Rec.           Limits           70 - 130	pe: To         Batch:         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	N Res <5( <5( <i>%Recove</i> 1 1/2-A	sult 0.0 0.0 0.0 MB ery 106 116	Qualifier U U MB Qualifier	50.0 50.0 50.0 <u>50.0</u> <u>50.0</u> <u>50.0</u> 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty           Prep Ty           %Rec.           Limits           70 - 130	pe: To         Batch:         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42	Dil Fa Dil Fa Dil Fa
Lab Sample ID: MB 880-10061/ Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	Res <5( <5( // %Recove 1 1/2-A	sult 0.0 0.0 0.0 MB ery 106 116	Qualifier U U MB Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130 70 - 130 <b>Spike</b> Added 1000	LCS Result 974.4	mg/k mg/k mg/k	g - <u>Unit</u> mg/Kg		Pr 10/2 10/2 10/2 Pr 10/2 10/2 10/2	repared 1/21 09:42 1/21 09:42 1/21 09:42 repared 1/21 09:42 1/21 09:42 Sample <u>%Rec</u> 97	Analyzed           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10/21/21 11           10: Lab Cor           Prep Ty           Prep Ty           %Rec.           Limits           70 - 130	pe: To         Batch:         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42         :42	Dil Fa Dil Fa Dil Fa

## **QC Sample Results**

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

Lab Sample ID: LCSD 880-1	0061/3-A					Clier	nt Sam	ple ID:	ab Contro		
Matrix: Solid									Prep 1	ype: To	tal/NA
Analysis Batch: 10051									Prep	Batch:	10061
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	886.7		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	851.4		mg/Kg		85	70 - 130	3	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: 880-7396-A-	4 D MC							Client	Sample ID	Motrix	Spilka
								Client			
Matrix: Solid										ype: To	
Analysis Batch: 10051	•	<b>.</b> .								Batch:	10061
	-	Sample	Spike		MS		_		%Rec.		
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0	U F1	1000	1264		mg/Kg		126	70 - 130		
(GRO)-C6-C10			1000	1001				05	70 100		
Diesel Range Organics (Over	69.3		1000	1021		mg/Kg		95	70 - 130		
C10-C28)											
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	111		70 - 130								
o-Terphenyl	106		70 - 130								
Lab Sample ID: 880-7396-A-	1-C MSD					CI	ient Sa	mple IC	): Matrix Sp	oike Dur	olicate
Matrix: Solid								•		· ype: To	
Analysis Batch: 10051										Batch:	
·····,	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<50.0	U F1	997	1312	F1	mg/Kg		132	70 - 130	4	20
(GRO)-C6-C10											
Diesel Range Organics (Over	69.3		997	1071		mg/Kg		101	70 _ 130	5	20
C10-C28)											
C10-C28)	MSD	MSD									
C10-C28) Surrogate	MSD %Recovery		Limits								
			Limits								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10654/1-A Matrix: Solid Analysis Batch: 10793						Client Sa	ample ID: Metho Prep Type:	
	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 10:03	1

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 88 Matrix: Solid	30-10654/2-A						Client	Sample	D: Lab C	ontrol Sa Type: S	
Analysis Batch: 10793									Пер	Type. O	oluble
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride			250	249.7		mg/Kg		100	90 - 110		
Lab Sample ID: LCSD	880-10654/3-A					Clier	nt San	ple ID:	Lab Contro	ol Sampl	le Dup
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 10793											
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	245.8		mg/Kg		98	90 - 110	2	20
_ Lab Sample ID: 890-14	22 A 4 I MC							Client	Sample ID	Motrix	Spilko
Matrix: Solid	23-A-1-J WI3							Client	Sample ID		
									Frep	Type: S	oluble
Analysis Batch: 10793	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Chloride	1020		253	1281		mg/Kg		103	90 - 110		
-											
Lab Sample ID: 890-14	23-A-1-K MSD					CI	ient Sa	ample IC	): Matrix S	oike Dup	olicate
Matrix: Solid										Type: S	
Analysis Batch: 10793											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	1020		253	1272	4	mg/Kg		100	90 - 110	1	20

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

Prep Batch: 10041

**GC VOA** 

## Job ID: 890-1426-1 SDG: 31402909.130

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
90-1426-1	PH02E	Total/NA	Solid	5035	
nalysis Batch: 10	083				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Total/NA	Solid	8021B	10041
nalysis Batch: 10	878				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Total/NA	Solid	Total BTEX	
GC Semi VOA					
nalysis Batch: 10	051				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Total/NA	Solid	8015B NM	10061
rep Batch: 10061					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Total/NA	Solid	8015NM Prep	
nalysis Batch: 10	676				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Total/NA	Solid	8015 NM	
IPLC/IC					

## Lab Sample ID

Lab Sample ID 890-1426-1	Client Sample ID PH02E	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
Analysis Batch: 107	93				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1426-1	PH02E	Soluble	Solid	300.0	10654

Job ID: 890-1426-1 SDG: 31402909.130

Matrix: Solid

Lab Sample ID: 890-1426-1

## Client Sample ID: PH02E Date Collected: 10/08/21 12:21 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 22:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 19:13	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 11:19	CH	XEN MID

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

**Released to Imaging: 4/27/2022 11:07:44 AM** 

Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Authority

Job ID: 890-1426-1 SDG: 31402909.130

Page 120 of 286

## Laboratory: Eurofins Xenco, Midland Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below. **Expiration Date** Program **Identification Number**

Texas NELAP T104704400-21-22 06-30-22 The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method Prep Method Analyte Matrix 8015 NM Solid Total TPH Total BTEX Solid Total BTEX

## **Method Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1426-1 SDG: 31402909.130

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

Page 122 of 286

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1426-1 SDG: 31402909.130

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1426-1	PH02E	Solid	10/08/21 12:21	10/14/21 12:12	5

	Ļ	)	
	8	5	
1		2	2
			6

Project Manager: Company Name: 1 Address: City, State ZIP: Phone:	Kalei Jennings WSP USA 3300 North A Street Midland, TX 79705 (817) 683-2503	Bill to: (if different) Company Name: Address: City, State ZIP: Email: kalei.jennings@wsp.com
Name:	Azores Fed Com 4H	
Location:	Lea County	
Sampler's Name:	Fatima Smi	Due Date:
SAMPLE RECEIPT	Temp Blank:	(es) No Wet Ice: (Yes No
Temperature (°C): Received Intact:	2.4/2.2	Thermometer ID
Cooler Custody Seals:	Yes No MA	Correction Factor:
Sample Custody Seals:	Yes No (N/A)	Total Containers:
Sample Identification	Matrix	Date Time Depth Sampled Sampled
PH02E	S	10/8/2021 1221 5'
PH02F	s	10/8/2021 1229 7'
		DYX
		/
Total 200.7 / 6010	010 200.8 / 6020:	8RC
Circle Method(s	Circle Method(s) and Metal(s) to be analyzed	ICLP/SPLP 60/10: BRUIVA SD As Barber und un co un Polimin mo NI se Ag II u
Notice: Signature of this d of service. Xenco will be l of Xenco. A minimum cha	document and relinquishment of s liable only for the cost of samples large of \$75.00 will be applied to ea	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 contro
Relinquished by; (Signature)	(Signature)	ch project and a charge of \$5 for each
1 tak		A <u>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 will have by the sample submitted by the sample </u>
3		Acceived by: (Signature)

## 11/11/2021 (Rev. 1)

Page 123 of 286

Chain of Custody

13

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Work Order No:

14

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1426 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

Job Number: 890-1426-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 09:51 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1426 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Received by OCD: 3/18/2022 1:35:11 PM

# 286 1 2 3 4 5 6 7 8 9 9 10 11

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1427-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H Revision: 1

# For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 11/11/2021 11:03:17 AM

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

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

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

LINKS Review your project results through TOTOLACCESS Have a Question? Ask The Expert

www.eurofinsus.com/Env Released to Imaging: 4/27/2022 11:07:44 AM

Laboratory Job ID: 890-1427-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	6
QC Sample Results	7
QC Association Summary	11
Lab Chronicle	12
Certification Summary	13
Method Summary	14
Sample Summary	15
Chain of Custody	16
Receipt Checklists	17

2

	Definitions/Glossary		
Client: WSP l	JSA Inc.	Job ID: 890-1427-1	
Project/Site: A	Azores Fed Com 4H	SDG: 31402909.130	
Qualifiers			3
GC VOA			
Qualifier	Qualifier Description		
S1+	Surrogate recovery exceeds control limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		5
GC Semi VO	Α		
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		8
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		0
CFL	Contains Free Liquid		3
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)		13
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

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 POS Positive / Present

PQL Practical Quantitation Limit

Presumptive PRES QC

**Quality Control** RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

Toxicity Equivalent Factor (Dioxin) TEF

TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

## Job ID: 890-1427-1

### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1427-1

#### REVISION

The report being provided is a revision of the original report sent on 10/29/2021. The report (revision 1) is being revised due to Per client email, requested sample depth 16.5' to be removed from report.

Report revision history

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### **Receipt Exceptions**

Analysis for TPH 8015, BTEX 8021, Chloride for the following samples were put on hold by the client on 10/14/2021: PH01E (890-1427-1) and PH01F (890-1427-2). This analysis was originally requested on the chain-of-custody (COC).

#### GC VOA

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01E (890-1427-1) and (890-1456-A-1-C). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

#### HPLC/IC

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

### Job ID: 890-1427-1 SDG: 31402909.130

# **Client Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

## **Client Sample ID: PH01E** Date Collected: 10/08/21 09:42 Date Received: 10/14/21 12:12

Sample Depth: 14

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
Toluene	0.00228		0.00200	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		10/21/21 10:15	10/21/21 23:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	137	S1+	70 - 130			10/21/21 10:15	10/21/21 23:17	1
1,4-Difluorobenzene (Surr)	94		70 - 130			10/21/21 10:15	10/21/21 23:17	1
Method: Total BTEX - Total B	TEX Calcula	tion						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00399	U	0.00399	mg/Kg			10/28/21 17:22	1
Method: 8015 NM - Diesel Ran Analyte	Result	Qualifier		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 12:19	1
Method: 8015B NM - Diesel R	ange Organ	ics (DRO)	(GC)					
Analyte	• •	· · · · ·						
	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
			<b>RL</b> 50.0	Unit mg/Kg	D	Prepared 10/21/21 09:42	Analyzed 10/21/21 19:53	Dil Fac
(GRO)-C6-C10 Diesel Range Organics (Over		U			<u>D</u>	10/21/21 09:42		
(GRO)-C6-C10	<50.0	U	50.0	mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42	10/21/21 19:53	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0	U U U	50.0	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42	10/21/21 19:53 10/21/21 19:53	1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	<50.0 <50.0 <50.0	U U U	50.0 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42	10/21/21       19:53         10/21/21       19:53         10/21/21       19:53	1 1 1
Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) <b>Surrogate</b>	<50.0 <50.0 <50.0 <b>%Recovery</b>	U U U	50.0 50.0 50.0 <b>Limits</b>	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21 19:53 10/21/21 19:53 10/21/21 19:53 <b>Analyzed</b>	1 1 1 <b>Dil Fac</b>
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	<50.0 <50.0 <50.0 <b>%Recovery</b> 101 108	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	mg/Kg mg/Kg	<u>D</u>	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21       19:53         10/21/21       19:53         10/21/21       19:53 <b>Analyzed</b> 10/21/21       19:53	1 1 1 <b>Dil Fac</b> 1
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	<50.0 <50.0 <50.0 %Recovery 101 108 Chromatogra	U U Qualifier	50.0 50.0 50.0 <u>Limits</u> 70 - 130 70 - 130	mg/Kg mg/Kg	D	10/21/21 09:42 10/21/21 09:42 10/21/21 09:42 <b>Prepared</b> 10/21/21 09:42	10/21/21       19:53         10/21/21       19:53         10/21/21       19:53 <b>Analyzed</b> 10/21/21       19:53	1 1 1 <b>Dil Fac</b> 1

5

Job ID: 890-1427-1 SDG: 31402909.130

## Lab Sample ID: 890-1427-1 Matrix: Solid

Released to Imaging: 4/27/2022 11:07:44 AM

## Job ID: 890-1427-1 SDG: 31402909.130

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

			Percent Surrogate	Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
_ab Sample ID	Client Sample ID	(70-130)	(70-130)		
390-1427-1	PH01E	137 S1+	94		l r
Surrogate Legend					
BFB = 4-Bromofluo					1
DFBZ = 1,4-Difluor	obenzene (Surr)				
,					
lethod: 8015B	NM - Diesel Range O	rganics (DR	O) (GC)		
lethod: 8015B	, , , , , , , , , , , , , , , , , , ,	rganics (DR	O) (GC)	Prep Type: Total/NA	
lethod: 8015B	, , , , , , , , , , , , , , , , , , ,	rganics (DR		Prep Type: Total/NA Recovery (Acceptance Limits)	
lethod: 8015B	, , , , , , , , , , , , , , , , , , ,	organics (DR 1C01		· · · ·	
lethod: 8015B latrix: Solid	, , , , , , , , , , , , , , , , , , ,		Percent Surrogate	· · · ·	
lethod: 8015B latrix: Solid Lab Sample ID	NM - Diesel Range O	1CO1	Percent Surrogate OTPH1	· · · ·	
Aethod: 8015B latrix: Solid Lab Sample ID 890-1427-1	NM - Diesel Range O         Client Sample ID         PH01E	1CO1 (70-130)	Percent Surrogate OTPH1 (70-130)	· · · ·	
Aethod: 8015B latrix: Solid Lab Sample ID 890-1427-1 Surrogate Legend	NM - Diesel Range O         Client Sample ID         PH01E	1CO1 (70-130)	Percent Surrogate OTPH1 (70-130)	· · · ·	
Aethod: 8015B latrix: Solid Lab Sample ID 890-1427-1 Surrogate Legend 1CO = 1-Chloroocta	NM - Diesel Range O Client Sample ID PH01E ane	1CO1 (70-130)	Percent Surrogate OTPH1 (70-130)	· · · ·	
Aethod: 8015B latrix: Solid Lab Sample ID 890-1427-1 Surrogate Legend	NM - Diesel Range O Client Sample ID PH01E ane	1CO1 (70-130)	Percent Surrogate OTPH1 (70-130)	· · · ·	

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

Lab Sample ID: MB 880-10041/5-A	
Matrix: Solid	

## Analysis Batch: 10083

	МВ	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/21/21 10:15	10/21/21 15:47	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			10/21/21 10:15	10/21/21 15:47	1
1,4-Difluorobenzene (Surr)	99		70 - 130			10/21/21 10:15	10/21/21 15:47	1

#### Lab Sample ID: LCS 880-10041/1-A Matrix: Solid

## Analysis Batch: 10083

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08697		mg/Kg		87	70 - 130	
Toluene	0.100	0.08587		mg/Kg		86	70 - 130	
Ethylbenzene	0.100	0.08675		mg/Kg		87	70 - 130	
m-Xylene & p-Xylene	0.200	0.1814		mg/Kg		91	70 - 130	
o-Xylene	0.100	0.08832		mg/Kg		88	70 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

## Lab Sample ID: LCSD 880-10041/2-A

### Matrix: Solid

Analysis Batch: 10083							Prep	Batch:	10041
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08674		mg/Kg		87	70 - 130	0	35
Toluene	0.100	0.08951		mg/Kg		90	70 _ 130	4	35
Ethylbenzene	0.100	0.08985		mg/Kg		90	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1897		mg/Kg		95	70 - 130	5	35
o-Xylene	0.100	0.09454		mg/Kg		95	70 - 130	7	35

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

## Lab Sample ID: 890-1456-A-1-B MSD

#### Matrix: Solid .....

Analysis Batch: 10083									Pre	p Batch:	10041
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.100	0.05173		mg/Kg					
Toluene	<0.00202	U	0.100	0.07158		mg/Kg					

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

**Client Sample ID: Matrix Spike Duplicate** 

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 10041

Prep Type: Total/NA

## **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1427-1 SDG: 31402909.130

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

Lab Sample ID: 890-1456-A-1-I Matrix: Solid									: Matrix Spik Prep Typ		-
Analysis Batch: 10083									Prep B		
Analysis Datch. 10005	Sample Sa	mnle	Spike	MSD	MSD				%Rec.	aten.	RP
Analyte	Result Q	-	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Ethylbenzene	<0.00202 U		0.100	0.07812		mg/Kg					
m-Xylene & p-Xylene	<0.00403 U		0.201	0.1557		mg/Kg					
o-Xylene	<0.00202 U		0.100	0.07460		mg/Kg					
- <b>,</b>						5 5					
	MSD M										
Surrogate		ualifier	Limits								
4-Bromofluorobenzene (Surr)	121		70 - 130								
1,4-Difluorobenzene (Surr)	85		70 - 130								
Lab Sample ID: 890-1456-A-1-I	DMS							Client	Sample ID: N	/latrix	c Spik
Matrix: Solid									Prep Ty		
Analysis Batch: 10083											
	MS M	s									
Surrogate		ualifier	Limits								
4-Bromofluorobenzene (Surr)	121		70 - 130								
1,4-Difluorobenzene (Surr)	112		70 - 130								
ethod: 8015B NM - Diese	Range Orga	anics (D	RO) (GC)								
Matrix: Solid								onom o	ample ID: Me Prep Typ Prep B	be: To	otal/N
Matrix: Solid Analysis Batch: 10051	м	B MB It Qualifie	· RL		Unit		D	Prepared	Prep Typ	oe: To atch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 ^{Analyte}	м	It Qualifie	·		Unit mg/K	g			Prep Typ Prep B Analyzed	oe: To atch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu <50	It Qualifie	50.0		mg/K	-	10	<b>Prepared</b> /21/21 09:42	Prep Typ Prep B Analyzed	atch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50	It Qualifie				-	10	Prepared	Prep Typ Prep B Analyzed	atch:	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50 <50	It Qualifie	50.0		mg/K	g	10	<b>Prepared</b> /21/21 09:42	Prep Typ Prep B Analyzed 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50 <50 <50	It Qualifie 0 U 0 U	50.0		mg/K	g	10	<b>Prepared</b> /21/21 09:42 /21/21 09:42	Prep Typ Prep B Analyzed 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42	otal/N : 1006
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	M Resu <50 <50 <50	It Qualifie U U U U U B MB	50.0 50.0 50.0		mg/K	g	- 10 10 10	<b>Prepared</b> /21/21 09:42 /21/21 09:42	Prep Typ Prep B Analyzed 10/21/21 11: 10/21/21 11:	<b>atch:</b> 42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate	M Resu <50 <50 <50 <50	It Qualifie U U U U U U U U U U U U U U U U U U U	50.0 50.0 50.0		mg/K	g	- 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42	Prep Typ Prep B Analyzed 10/21/21 11: 10/21/21 11: 10/21/21 11: Analyzed	<b>atch:</b> 42 42 42	Dill Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane	M Resu <50 <50 <50 %Recover	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0		mg/K	g	- 10 10 10 - 10 - 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared	Prep Typ           Prep B           Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:	Atch:       42       42       42       42       42       42       42       42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130		mg/K	g	- 10 10 10 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42	Prep Typ           Prep B           Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:	Atch:       42       42       42       42       42       42       42       42       42       42       42       42       42       42       42	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130		mg/K	g	- 10 10 10 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:	<b>be: To</b> <b>atch:</b> 42 42 42 42 42 42 42 42 42 42 <b>trol S</b>	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130		mg/K	g	- 10 10 10 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:	dee:         To           atch:	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130	LCS	mg/K	g	- 10 10 10 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Typ	dee:         To           atch:	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006 Matrix: Solid Analysis Batch: 10051	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	<ul> <li>50.0</li> <li>50.0</li> <li>50.0</li> <li>50.0</li> <li>70.130</li> <li>70.130</li> </ul>		mg/K mg/K	g	- 10 10 10 10 10 10	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 nt Sample	Analyzed           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10/21/21 11:           10:           Lab Con           Prep Typ           Prep B	dee:         To           atch:	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130		mg/K mg/K mg/K	- g g	- 10 10 10 10 10 10 Clien	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 /21/21 09:42 nt Sample	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab           Prep B           %Rec.	dee:         To           atch:	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg	- 10 10 10 10 10 10 Clien	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42 nt Sample %Rec 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab Con           Prep B           %Rec.           Limits           70 - 130	dee:         To           atch:	Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U B MB Y Qualifie Qualifie	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130	Result	mg/K mg/K mg/K	g g	- 10 10 10 10 10 10 Clien	Prepared (21/21 09:42 (21/21 09:42) (21/21 09:42 (21/21 09:42) (21/21	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           10:           Lab           Prep           %Rec.           Limits	dee:         To           atch:	Dil Fa
Lab Sample ID: MB 880-10061 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-10067 Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50 <50 <50 <i>%Recove</i> 10 11	It Qualifie U U U U U U U Q U Q Qualifie G G	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg	- 10 10 10 10 10 10 Clien	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42 nt Sample %Rec 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab Con           Prep B           %Rec.           Limits           70 - 130	dee:         To           atch:	Dil Fa Dil Fa Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	M Resu <50 <50 %Recovel 10 11 1/2-A	It Qualifie U U U B MB <u>y</u> Qualifie 6 CS	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg	- 10 10 10 10 10 10 Clien	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42 nt Sample %Rec 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab Con           Prep B           %Rec.           Limits           70 - 130	dee:         To           atch:	Dil Fa Dil Fa Dil Fa
Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCS 880-1006' Matrix: Solid Analysis Batch: 10051 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	M Resu <50 <50 %Recover 10 11/2-A	It Qualifie U U U B MB <u>y</u> Qualifie 6 CS	50.0 50.0 50.0 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 1000	Result 974.4	mg/K mg/K mg/K	g g - <u>Unit</u> mg/Kg	- 10 10 10 10 10 10 Clien	Prepared /21/21 09:42 /21/21 09:42 /21/21 09:42 Prepared /21/21 09:42 /21/21 09:42 nt Sample %Rec 97	Analyzed           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10/21/21           10:           Lab Con           Prep B           %Rec.           Limits           70 - 130	dee:         To           atch:	Dil Fa Dil Fa Dil Fa

## **QC Sample Results**

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

Lab Sample ID: LCSD 880-10	0061/3-A					Clier	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 10051			<b>.</b>							Batch:	
			Spike		LCSD		_		%Rec.		RPD
Analyte			Added		Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Limi
Gasoline Range Organics			1000	886.7		mg/Kg		89	70 - 130	9	20
(GRO)-C6-C10			1000	054.4				05	70 400	2	0
Diesel Range Organics (Over			1000	851.4		mg/Kg		85	70 - 130	3	20
C10-C28)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane			70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: 880-7396-A-	1-B MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										ype: To	
Analysis Batch: 10051										Batch:	
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	-	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<50.0		1000	1264		mg/Kg		126	70 - 130		
GRO)-C6-C10						5 5					
Diesel Range Organics (Over	69.3		1000	1021		mg/Kg		95	70 - 130		
C10-C28)											
	МС	MS									
Sume note		MS Qualifier	Limits								
Surrogate	%Recovery	Quaimer									
1-Chlorooctane	111		70 - 130								
p-Terphenyl	106		70 - 130								
Lab Comple ID: 990 7200 A						0			Mateix Or		liest
Lab Sample ID: 880-7396-A-						U U	ient Sa	imple IL	: Matrix Sp		
Matrix: Solid										ype: To	
Analysis Batch: 10051										Batch:	
	-	Sample	Spike	MSD	MSD				%Rec.		RPI
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
	<50.0	U F1	997	1312	F1	mg/Kg		132	70 - 130	4	2
										_	
GRO)-C6-C10				10-11					70 _ 130	5	2
GRO)-C6-C10 Diesel Range Organics (Over	69.3		997	1071		mg/Kg		101			
(GRO)-C6-C10 Diesel Range Organics (Over	69.3		997	1071		mg/Kg		101			
GRO)-C6-C10 Diesel Range Organics (Over	69.3 <b>MSD</b>	MSD	997	1071		mg/Kg		101			
(GRO)-C6-C10 Diesel Range Organics (Over C10-C28)			997 Limits	1071		mg/Kg		101			
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	MSD			1071		mg/Kg		101			

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-1065 Matrix: Solid Analysis Batch: 10793	4/1-A					Client S	ample ID: Metho Prep Type:	
	MB	МВ						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/28/21 10:03	1

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

#### Job ID: 890-1427-1 SDG: 31402909.130

Method: 300.0 - Anions, Ion Chromatography (Continued)

_ 	E 4/0 A						Client	Comula		entrel C	
Lab Sample ID: LCS 880-106 Matrix: Solid	54/2-A						Client	Sample	ID: Lab C	Type: S	
Analysis Batch: 10793									гтер	Type. 5	oluble
Analysis Datch. 10755			Spike	LCS	LCS				%Rec.		
Analyte			Added		Qualifier	Unit	D	%Rec	Limits		
Chloride		·	250	249.7	Quanner	mg/Kg		100	90 - 110		
			200	210.7		mg/rtg		100	00-110		
Lab Sample ID: LCSD 880-10	0654/3-A					Clier	nt Sam	ple ID:	Lab Contro	ol Sampl	e Dup
Matrix: Solid								· · · ·	Prep	Type: S	oluble
Analysis Batch: 10793										~ •	
-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	245.8		mg/Kg		98	90 - 110	2	20
_											
Lab Sample ID: 890-1423-A-	1-J MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid									Prep	Type: S	oluble
Analysis Batch: 10793											
	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	1020		253	1281	4	mg/Kg		103	90 - 110		
									. Matela O		
Lab Sample ID: 890-1423-A- Matrix: Solid	I-K WISD					CI	ient Sa	ample IL	D: Matrix S		
									Prep	Type: S	oluble
Analysis Batch: 10793	Commis	Sampla	Spike	MSD	MSD				%Rec.		RPD
Analysis	•	Sample	Spike Added			11	-	% Dec		000	
Analyte	Result	Qualifier		1272	Qualifier		<u>D</u>	%Rec 100	Limits	RPD	
Chloride	1020		253	1272	4	mg/Kg		100	90 - 110	1	20

Project/Site: Azores Fed Com 4H

Job ID: 890-1427-1 SDG: 31402909.130

## GC VOA

## Prep Batch: 10041

Client: WSP USA Inc.

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1427-1	PH01E	Total/NA	Solid	5035	
analysis Batch: 10	0083				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1427-1	PH01E	Total/NA	Solid	8021B	10041
Analysis Batch: 10	)878				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1427-1	PH01E	Total/NA	Solid	Total BTEX	
GC Semi VOA					
Analysis Batch: 10	0051				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1427-1	PH01E	Total/NA	Solid	8015B NM	10061
Prep Batch: 10061					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1427-1	PH01E	Total/NA	Solid	8015NM Prep	
Analysis Batch: 10	0676				
- Analysis Batch: 10 - Lab Sample ID	D676 Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
		Prep Type Total/NA	Matrix Solid	Method 8015 NM	Prep Batch

#### Leach Batch: 10654

Lab Sample ID 890-1427-1	Client Sample ID PH01E	Prep Type Soluble	Matrix Solid	DI Leach	Prep Batch
Analysis Batch: 1079	3				
Lab Sample ID 890-1427-1	Client Sample ID PH01E	Prep Type Soluble	Matrix Solid	Method 300.0	Prep Batch 10654

Job ID: 890-1427-1 SDG: 31402909.130

Matrix: Solid

Lab Sample ID: 890-1427-1

## Client Sample ID: PH01E Date Collected: 10/08/21 09:42 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	10041	10/21/21 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10083	10/21/21 23:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10878	10/28/21 17:22	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 12:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10061	10/21/21 09:42	AM	XEN MID
Total/NA	Analysis	8015B NM		1			10051	10/21/21 19:53	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10654	10/26/21 16:57	CA	XEN MID
Soluble	Analysis	300.0		1			10793	10/28/21 11:31	СН	XEN MID

#### Laboratory References:

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

**Accreditation/Certification Summary** 

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1427-1

# 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 encluter	are included in this read	with the leberatory is r	at cartified by the governing outbority	This list may include analytes for which
the agency does not o	•	sit, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
• •	•	Matrix	Analyte	This list may include analytes for which
the agency does not o	ffer certification.	•		

SDG: 31402909.130

## **Method Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1427-1 SDG: 31402909.130

lethod	Method Description	Protocol	Laboratory
021B	Volatile Organic Compounds (GC)	SW846	XEN MID
otal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
0.00	Anions, Ion Chromatography	MCAWW	XEN MID
6035	Closed System Purge and Trap	SW846	XEN MID
015NM Prep	Microextraction	SW846	XEN MID
01 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

Page 140 of 286

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1427-1 SDG: 31402909.130

Lab Sample IDClient Sample IDMatrixCollectedReceivedDepth890-1427-1PH01ESolid10/08/21 09:4210/14/21 12:1214							
890-1427-1 PH01E Solid 10/08/21 09:42 10/14/21 12:12 14	Lab Sample ID	Client Sample ID			Collected	Received	Depth
	890-1427-1	PH01E	Soli	d	10/08/21 09:42	10/14/21 12:12	14

Manager:     Kalei Jennings       ny Name:     WSP USA       s:     3300 North A Street       ate ZIP:     Midland, TX 79705       (817) 683-2503     (817) 683-2503       Name:     Azores Fed Conners       ns:     Itea Count       ns:     Itea Count       rs:     Name:       PLE RECEIPT     Temp Blank:       ature (°C):     Z.4       Custody Seals:     Yes No       Custody Seals:     Yes No       Custody Seals:     Yes No       PH01E     S       PH01F     S       PH01F     S       PH01F     S       PH01F     S       PH01F     S       PH01F     S       Name:     S       PH01F     S       Aninor of this document and relinquishment of sample       Aninimum change of \$75.00 will be applied to a phole of \$75.00 will be applied to a ph			4			J			-	3 (
Brownfi Brownfi Brownfi Brownfi 1631	Dat	Received by: (Signature)	Relinquished by: (Signature)	ate/Time	10.14	(Signature)	Received by:		Signature	Relinquished by
Brownfi Brownfi ADaPT SiQ2 N SiQ2 N		ndard terms and conditions mstances beyond the control previously negotiated.	ts affiliates and subcontractors. It assigns stated by the client if such losses are due to circur analyzed. These terms will be enforced unless	ompany to Xenco, il or expenses incurr d to Xenco, but not	rom client c r any losses ple submitte	es a valid purchase order sume any responsibility fo charge of \$5 for each sam	f samples constitut es and shall not as each project and a	relinquishment of the cost of sampli will be applied to	document and liable only for large of \$75.00	lotice: Signature of this of service. Xenco will be of Xenco. A minimum ch
Hote, NU (219) 322-2500, Cartabal MR (219) 362-2500, Cartabal MR (219) 362-2500, Cartabal MR (219) 362-2760, Cartabal MR (219) 362-2770, Cartabal MR (219) 362-3700, Cart	Sr Ti Sn U 245.1 / 7470 /	<u>S</u>	Cd Ca Cr Co Cu Fe Pb Mg M <del>Cd Cr Co Cu Pb Mn Mo Ni Se</del>	As Ba Be B <del>b As Ba Be</del>	RCRA S	13PPM Texas 1 LP / SPLP 6010: 8	8RCRA alyzed TC	.8 / 6020: al(s) to be ani	010 200 (s) and Meta	Total 200.7 / 6 Circle Method
Manager:       Kalei Jennings       Carlson Mi (59) 992-7500. Carlson Mi (59) 992-7500. Trans. CA (700) 43-0900       Trans. CA (700) 752/770. Trans. Carlson Mi (59) 992-7500. Trans. CA (770) 43-0900       Trans. CA (770) 43-0000       Trans. CA (770) 43-0000       Trans. CA (770) 43-0000       Trans. CA (770) 40-0000       Trans. CA (770) 40					F					
Hotes, MI (59) 922-7550. Carlated, MI (59) 922-750. Car										
Hotos NM (379) 902-7500. Carabad, NM (379) 902-7500. Carabad, NM (379) 902-7500. Carabad, NM (379) 902-7500. Training Science (1.00) 750-077. Daray Beach, FL (90) 908-5700       Manager     Kalei Jennings     Bill to (f differen)       vy Name:     3300 North A Street     Actores       as ZIP     Midland, TX 79705     City, State ZIP.       (817) 902-7503     Enail: [adialignings]/ kine     State of Project:       visit North     Tim Acound     North       Number     3140/3009 130     Routine:       visit North     Conngany Name     Name       Azores Fed Com 4H     Tim Acound     North       rise RECEIPT     Top Blank     Onion       PLE RECEIPT     Top Blank     Wish     Due Dage:       raine (C)     2.41, 72, 700, 000     Thermometer I.0       outseds     No     Tim Acound       sample identification     Matrix sampled     Depth       PH01E     S 1008/2021     0942       Visit No     Date     1       PH01F     S 1008/2021     0942       No     Date     1       PH01F     S 1008/2021       No     Date       No     Date       No     Date       No     Date       No     Date       No     Date										
Hobbs: NM (575) 392-7550; Carlsbad, NM (575) 392-750; C						ARTIN				
Hobox, NM (575) 982.7560, Carabad, NM (575)						111				
Manager       Kalel Jennings       Hobs. NM (375) 392-7550. Carlsbad. NM (675) 982-3199. Proemix, A2 (480) 355-090       Tampa. FL (813) 820-2000. Talabasee, FL (850) 786-0747. Delray Beab., FL (851) 889-570         Manager       Kalel Jennings       Bit I or. (If alfreen)       Company Name.       Kalel Jennings       Bit I or. (If alfreen)       Work Order Company Name.         as ZIP:       Midland, TX 79705       Enail (kalel jennings@wsp.com)       City, State ZIP:       Program: USTIPST        PRE        Bit I or. (If alfreen)       Image.       State of Project:       Roonfing Level         Psr011       State of Project:       Roonfing Level         Psr011       State of Project:       Roonfing Level         Psr011       Tampa. FL (B2)       Delta       Marking Signal and the project:       Roonfing Level         Psr011       State of Project:       Roonfing Level         Psr011       Delta       Marking Signal and the project:       Roonfing Level         Psr011       Signal and the psr01       Delta       Address       Roonfing Level         Psr011       Signal and the psr01       Roonfing Level         Psr011       Roonfing Level         Address       Roonfing Level					_					
Manager       Kalel Jennings       Hobs. NM (375) 392.7550, Carlsbad, NM (675) 392.7560, Carlsbad, NM (675) 392.750, Carlsbad, NM (675)										
Manager       Kalei Jennings       Hobs. MK (57) 392.750. Carlebad. MK (57) 398.3199. Pheenik, AZ (480) 355.900         Manager       Kalei Jennings       Bill (1) (1 different)       Alamassee, FL (851) 785.0747. Deray Beach, FL (561) 883-5101         Manager       Kalei Jennings       Bill (2) (1 different)       Alamassee, FL (851) 785.0747. Deray Beach, FL (561) 883-5101         Manager       Kalei Jennings       Bill (2) (1 different)       Alamassee, FL (561) 883-5101         Manager       Kalei Jennings       Bill (2) (1 different)       Alamassee, FL (561) 883-5101         Manager       Kalei Jennings       Bill (2) (1 different)       Alamassee, FL (561) 883-5101         Manager       Kalei Jennings       Bill (2) (1 different)       Alamassee, FL (561) 883-5101         Manager       Azores Fed Com 4H       Turn Around       State of Project:         Number       31402909.130       Routine:       Alamassee, FL (561) 883-510       AbaPT         Numer (2)       C.4.4.2.7       Thermometer ID       Alamassee, FL (561) 88-511       AbaPT         Samplei Identification       Matrix       Samplei Samplei       Depth       Matrix       Samplei Samplei       Depth         PHOTE       S       10/8/2021       Og42       14'//2       1       Hoba       Hoba	HOLD				4	-		S		PHO
Hobbs. NM (575) 392-7550. Carlsbad. NM (675) 982-3199. Phoenix, AZ (480) 355-0900         Manager:       Kallei Jennings       Bill to: ((anferen)       Warnassee. FL (850) 756-0747. Delray Beach. FL (650) 988-5101         Manager:       Kallei Jennings       Bill to: ((anferen)       With Order Company Name.       With Order Company Name.         s:       3300 North A Street       Address:       City, State ZIP:       Moldand. TX 79705       Email: (alei Jennings@wsb.com)       North Order Company Name.         Number:       Azores Fed Com 4H       Tum Around       Antrostic Ves No       Antrostic Ves No       Address:       City, State ZIP:       North Order Company Name.       Pogram: USTPST   PRE   Brown         Number:       Azores Fed Com 4H       Tum Around       Antrostic Ves No       No       Antrostic Ves No       No       Antrostic Ves No       No       Address:       Antrostic Ves No       No       Antrostic Ves No	HOLD			$\left\{ \right\}$	1	_	-	S	Ē	PHO
Manager:       Kalei Jennings       Bill to (if different)       Alamasee, FL (850) 756-0747, Deray Beach, FL (850) 855-0900         Manager:       Kalei Jennings       Bill to (if different)       Alamasee, FL (850) 756-0747, Deray Beach, FL (850) 868-6701         Ananger:       Kalei Jennings       Bill to (if different)       Alamasee, FL (850) 756-0747, Deray Beach, FL (850) 868-6701         Ananger:       WSP USA       Company Name:       WSP USA       Company Name:       Not Korder of Project:         alamacity       (817) 683-2503       Enaiti kalei jennings@wsb.com       Frequencies       PRE Brownfi State of Project:       Program: UST/PST    PRE    Brownfi State of Project:       Program: UST/PST    PRE    Brownfi State of Project:       Roporting Level    EVE     PST/U         Number:       3140/2909.1300       Routine:       Alamase       Anat_YSIS REGUEST       Alamase: ED    PR     Brownfi State of Project:       Roporting Level    PST/U         Name:       Fatima Smith       Due Daite:       Alamase       Alamase       Alamase       Alamase         ris Name:       Fatima Smith       Due Daite:       No       Alamase       Alamase       Alamase         alinet:       Viei Ice:       Viei Ice:       Viei Ice:       Viei Ice:       Alamase       Alamase         State of Project:       Alamase       Viei Ice:       Vi	Sample Com			BTEX (				Matrix	ntification	Sample Ider
Manager:       Kalei Jennings       Bill to: (r/ameen)       Tampa. FL (813) 620-2000. Tailahassee. FL (850) 756-0747. Delray Beach, FL (561) 689-6701         Manager:       Kalei Jennings       Bill to: (r/ameen)       Manager.       Kalei Jennings       Work Order Company. Name:         s:       3300 North A Street       Address:       Address:       Address:       Fragman: UST/PST PRF Bownfill         set ZIP       Midland, TX 79705       Email:       Kalei Jennings@wsp.com       Fragman: UST/PST PRF Bownfill         Number       Azores Fed Com 4H       Tum Around       AnuLYSIS REQUEST       Reporting: Level    PST/U         Number       13402209.130       Rush:       Address:       ADII Termp Biank: Mes No       Wet toe:         Yes No       Non       Correction Factor:       -O.7.2       0       01       40         State of Project:       Thermometer ID       1       1       4       4       ADII Termo         State of Project:       Yes No       No       Thermometer ID       40       4       4       4       4         State of Project:       Yes No       No       Thermometer ID       4       4       4       4       4       4         State of Project:       Yes No       No       Thermometer       4 <td>lab, if received by</td> <td>-</td> <td></td> <td>EPA</td> <td></td> <td>S.</td> <td>Total Container</td> <td>No</td> <td></td> <td>Sample Custody Sea</td>	lab, if received by	-		EPA		S.	Total Container	No		Sample Custody Sea
Manager:     Kalei Jennings     Bill to: (fr differen)     Warren     Warren     WSP USA     Bill to: (fr differen)     Warren     WSP USA     Sale of Project:     Page       s.     3300 North A Street     Address:     Address:     Company Name:     Address:     Sale of Project:     Program: UST/PST    PRF      Brownfield     RR()       s.     3300 North A Street     Address:     City, State ZIP:     Address:     Sale of Project:     Reporting: Level    Level    PST/U\$     TRf        state of Project:     1100     Routine:     X     Address:     Nonth Creer Comments       n.     Lea County     Email:     Kalei jennings@wsp.com     Palitic:     Nonth Creer     Nonth Creer       n.     Lea County     Rush:     X     Nonth Creer     Nonth Creer     Nonth Creer       name:     Faima Smith     Due Date:     Nonth Creer     Nonth Creer     Nonth Creer       name:     Faima Smith     Due Date:     Nonth Creer     Nonth Creer     Nonth Creer       name:     Faima Smith     Due Date:     Nonth Creer     Nonth Creer     Nonth Creer       name:     Faima Smith     Due Date:     Nonth Creer     Nonth Creer     Nonth Creer       name:     Faima Smith     Due Date:     Nonth Creer     Nonth Creer	T starts the day re			0=8(		10	Correction Fact	No	~	Cooler Custody Seal
Hobs. NM (575) 982-7500. Carlsbad. NM (575) 982-7500.       Hobs. NM (575) 982-7500. Carlsbad. NM (575) 982-3199. Phoenix, AZ (480) 335-0900         Manager.       Kalei Jennings       Bill to: (faffeen)       Manager.       Kalei Jennings       Num. (515) 920-2000. Tailahassee. FL (950) 756-0747. Delray Beach. FL (551) 980-8701       Manager.       Kalei Jennings       Wark Order Comments         sv.       3300 North A Street       Address:       Address:       Address:       Program: UST/PST    PRF   Brownfield    RR()       State of Project:       Reporting:Level    Level    PST/U\$   TRf        State of Project:       Reporting:Level    PST/U\$   TRf        Num. Vonk Order. Comments         Name:       Azores Fed Com 4H       Tum Around       AnaLySIS REQUEST       AnaLySIS REQUEST       Mork Order       Oner         ris Name:       Fatima Smith       Due Date:       Vork Order       Vork Or       Vork Or         ris Name:       Fatima Smith       Due Date:       Vork Or       Vork Or       Vork Or         ris Name:       Fatima Smith       Due Date:       Vork Or       Vork Or       Vork Or         ris Name:       Fatima Smith       Due Date:       Vork Or       Vork Or       Vork Or         ris Name:       Fatima Smith       Due Date:       Vork Or       Vork Or       Vork Or         ris Name:       <				-	ntai	Eco-W	11		6	Received Intact:
Hobbs. NM (575) 392-7560. Carlsbad. NM (575) 982-7369. Phoenix, AZ (460) 355-0900         Tampa, FL (813) 620-2000. Tailahassee. FL (850) 756-0747. Deiray Beach, FL (650) 889-8191       Manager:       Name:       Wish Size t       Size 7560. Carlsbad. NM (575) 989-3199. Phoenix, AZ (460) 355-0900         Manager:       Kalei Jennings       Bill to: (if affreen)       Itamia. GA (770) 449-8800       Num. Xenco. com       Page         Manager:       Kalei Jennings       Bill to: (if affreen)       Company Name:       Company Name:       Num. Xenco. com       Page         Name:       Azores Fed Com 4H       Tum Around       Address:       Control (I evel    PST/US]       Reporting: Level    Level    PST/US]       Reporting: Level    PST/US]       Rale         Name:       Azores Fed Com 4H       Tum Around       AnaLYSIS REQUEST       Work Or         Name:       Fatima Smith       Due Date:       Work Or       Work Or         PLE RECEIPT       Tepp Blank       We tee       Yei No       Wei tee       Yei No       Wei tee       Wei tee					iner	mometer ID	The	12.2	2.1	Temperature (°C):
Hobs. NM (575) 392-7550. Carlsbad, NM (575) 988-3199. Phoentix, AZ (480) 355-0900         Tampa, FL (813) 820-2000. Tallahassee, FL (850) 756-0747. Delray Beach, FL (551) 898-3199.       Nume: Kalei Jennings       www.xenco.com       Page         Manager:       Kalei Jennings       Bill to: (f differen)       www.xenco.com       Page         Musp USA       Street       Company Name:       Company Name:       more company Name:       www.xenco.com       Page         size ZIP:       Midland, TX 79705       City, State ZIP:       Address:       Program: UST/PST    PRF   Brownfield    RR(])       State of Project:       Reporting: Level    Level    PST/U4   TRF        State of Project:       Page       Nume:       Adapt    work Order       Other:       Deliverables: EDD    ADapt    other:       Deliverables: EDD    ADapt    other:       Napt    work Order       Work Order       Work Order         Number:       31402909.130       Rush:       Nume:       ANALYSIS REQUEST       Work Or         r Name:       Fatima Smith       Due Date:       Ult all all all all all all all all all a					s	Tee	es	Temp Blank:	EIPT	SAMPLE RECE
Manager.       Kalei Jennings       Bill to: (If afferen)       Name:       Name:       MSP USA       Company Name:       Size of Project:       Name:       Not Size of Project:       Name:       Name:       Moldand, TX 79705       Email: kalei jennings@wsp.com       Forgram: UST/PST[] PRF[] Brownfield] RR(]       Size of Project:       Reporting: Level [] tevel [] PST/US] TRF[]       Bownfield [] RR(]       Size of Project:       Name:       Alanta Company Name:       Address:       Company Name:       Address:       Trm Around       Address:       Trm Around       Address:       Company Name:       Manager:       AnaLYSIS REQUEST       Address:       Trm Around       Mork Or         Number:       Azores Fed Com 4H       Tum Around       Tum Around       AnaLYSIS REQUEST       Work Or       Work Or         Name:       Azores Fed Com 4H       Tum Around       Mork Or       AnaLYSIS REQUEST       Work Or         Name:       Azores Fed Com 4H       Tum Around       Mork Or       Mork Or       Mork Or         Number:       Azores Fed Com 4H       Tum Around       Mork Or       Mork Or       Mork Or         Name:       Azores Fed Com 4H       Tum Around       Mork Or       Mork Or       Mork Or         Number:       Lea County       Rush:       Hor III (IIIII)       IIIIIIIII		-	_			Due Date:	nith	Fatima Sn		Sampler's Name:
Hobs. NM (575) 392-7560, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900         Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (51) 689-6701         Manager:       Kalei Jennings       Bill to: (If diferent)       Nume:       Wisp USA       Street       Mork Order Comments       Page         Midland, TX 79705       Crity, State ZIP:       Midland, TX 79705       Email: kalei Jennings@wsp.com       Crity, State ZIP:       Address:       Reporting: Level    Level    PST/US]       PRF   Brownfield   RR(   State of Project:       Reporting: Level    Level    PST/US]       TIRF         Other:         Name:       Azores Fed Com 4H       Tum Around       ANALYSIS REQUEST       Work Or         Number:       31402909.130       Routine: X       Mortine: X       Mortine       Work Or						Rush:	nty	Lea Cour		Location:
Manager:       Kalei Jennings       Bill to: (if different)       Nume:       Nume:       Maldland, TX 79705       Company Name:       Bill to: (if different)       Midei Jennings@wsp.com       Page         Mame:       Azores Fed Com 4H       Turn Around       Turn Around       Anatysis REQUEST       Manages:       Anatysis REQUEST       Page       Work Order Comments       Page         Mame:       Azores Fed Com 4H       Turn Around       Anatysis REQUEST       Page       Work Order Comments       Page         Manager:       Midland, TX 79705       Email:       kalei Jennings@wsp.com       Page       Page       State of Project:       Program: UST/PST PRF Brownfield PST/US TRF Other:       Page         Name:       Azores Fed Com 4H       Turn Around       AnaLysis REQUEST       Work Or       Work Or							130	31402909.		Project Number:
Manager:       Kalei Jennings       Bill to: (f affreen)       Italiahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701       Manager.       Kalei Jennings       WSP USA       Bill to: (f affreen)       Italiahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701       Manager.       Kalei Jennings       Midland, TX 79705       Bill to: (f affreen)       Italiahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701       Manager.       Kalei Jennings       Manager.       Kalei Jennings       Bill to: (f affreen)       Italiahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701       Page         s:       3300 North A Street       Bill to: (f affreen)       Company Name:       Vork Order Comments       Program: UST/PST[] PRF[] Brownfield[] RR(]       State of Project:       State of Project:       Reporting: Level [] Level [] Level [] PST/US] TRf[]       Deliverables: EDD [] ADaPT [] Other:	Work Order		ANALYSIS REQUEST			Turn Around	om 4H	Azores Fed C		Project Name:
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900       Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701       NWW. Xenco. com       Page         Kalei Jennings       Bill to: (if afferent)       Atlanta, GA (770) 449-8800       NWW. Xenco. com       Page         WSP USA       Company Name:       Company Name:       Work Order Comments       Program: UST/PST[] PRF[] Brownfield[] RR(]       State of Project:         Midland, TX 79705       City, State ZIP:       City, State ZIP:       Reporting:Level [] Level [] PST/US] TRf[]			Deliver	.com	ds@wsb	Email: kalei.jennir		2503	(817) 683-	Phone:
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900         Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701         Atlanta, GA (770) 449-8800         WSP USA         Bill to: (if different)         Company Name:         Address:         Address:		Level	Reporti		IP:	City, State Z		X 79705	Midland, T	City, State ZIP:
Kalei Jennings       Bill to: (if afferent)         WSP USA       Company Name:		п	Stat			Address:		h A Street	3300 North	Address:
Kalei Jennings       Bill to: (if different)		m: UST/PST PRF Brownfiel	Progra		ame	Company N		-	WSP USA	Company Name:
www.xenco.com Page 1	ments	Work Order Com			rent)	Bill to: (if diffe		lings	Kalei Jenn	Project Manager:
Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701		www.xenco.com	449-0000	Atlanta, GA (170						
LABORATORIES Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900			756-0747, Delray Beach, FL (561) 689-6701	ahassee, FL (850)	0-2000, Tal	Tampa, FL (813) 62				(
			) 988-3199, Phoenix, AZ (480) 355-0900	Carlsbad, NM (575)	392-7550,	Hobbs, NM (575)		KAI C		

5 13

Chain of Custody

Work Order No:

11/11/2021 (Rev. 1)

5

14

Job Number: 890-1427-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1427 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-1427-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 09:51 AM

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1427 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Received by OCD: 3/18/2022 1:35:11 PM

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

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1428-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

# For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/22/2021 11:57:51 AM Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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

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

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**Have a Question?** 

Ask-

The

Released to Imaging: 4/27/2022 11:07:44 AM
Laboratory Job ID: 890-1428-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	8
QC Sample Results	9
QC Association Summary	16
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	25

2

#### Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Qualifiers

Page 146 of 286

3	····· <b>,</b>	Job ID: 890-1428-1 SDG: 31402909.130	2
			3

	_
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.	5
MS and/or MSD recovery exceeds control limits.	C
Surrogate recovery exceeds control limits, low biased.	
Surrogate recovery exceeds control limits, high biased.	
Indicates the analyte was analyzed for but not detected.	
Α	
Qualifier Description	6
Surrogate recovery exceeds control limits, high biased.	- 0
Indicates the analyte was analyzed for but not detected.	6
	2
Qualifier Description	
Indicates the analyte was analyzed for but not detected.	
	- 1
	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.         MS and/or MSD recovery exceeds control limits.         Surrogate recovery exceeds control limits, low biased.         Surrogate recovery exceeds control limits, high biased.         Indicates the analyte was analyzed for but not detected.         Qualifier Description         Surrogate recovery exceeds control limits, high biased.         Indicates the analyte was analyzed for but not detected.

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

4

Job ID: 890-1428-1 SDG: 31402909.130

#### Job ID: 890-1428-1

Client: WSP USA Inc.

#### Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

#### Narrative

Job Narrative 890-1428-1

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9748 and analytical batch 880-9846 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH03 (890-1428-1) and PH03A (890-1428-2). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9911 and analytical batch 880-10084 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1434-A-1-D). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH03B (890-1428-3), (890-1428-A-3-D MS) and (890-1428-A-3-E MSD). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

RL

0.00200

Unit

mg/Kg

D

Prepared

10/18/21 14:06

Job ID: 890-1428-1 SDG: 31402909.130

#### **Client Sample ID: PH03**

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

0.0165

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 12:40 Date Received: 10/14/21 12:12

Sample Depth: 1

Analyte

Benzene

Client: WSP USA Inc.

Analyzed

10/20/21 01:38

5

Dil Fac

1

	9

Delizene	0.0100		0.00200	mg/rtg		10/10/21 11:00	10/20/21 01:00	
Toluene	0.107	F1	0.00200	mg/Kg		10/18/21 14:06	10/20/21 01:38	1
Ethylbenzene	0.181	F1	0.00200	mg/Kg		10/18/21 14:06	10/20/21 01:38	1
m-Xylene & p-Xylene	0.0164		0.00399	mg/Kg		10/18/21 14:06	10/20/21 01:38	1
o-Xylene	14.4		0.201	mg/Kg		10/19/21 15:07	10/21/21 17:48	100
Xylenes, Total	15.8		0.402	mg/Kg		10/19/21 15:07	10/21/21 17:48	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	535	S1+	70 - 130			10/18/21 14:06	10/20/21 01:38	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/18/21 14:06	10/20/21 01:38	1
Method: Total BTEX - Total BT	EX Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.7		0.00399	mg/Kg			10/21/21 16:53	1
Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6730		49.8	mg/Kg			10/20/21 13:58	1
– Method: 8015B NM - Diesel Ra	nge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	1090		49.8	mg/Kg		10/18/21 08:11	10/18/21 14:22	1
Diesel Range Organics (Over C10-C28)	4880		49.8	mg/Kg		10/18/21 08:11	10/18/21 14:22	1
Oll Range Organics (Over C28-C36)	763		49.8	mg/Kg		10/18/21 08:11	10/18/21 14:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	126		70 - 130			10/18/21 08:11	10/18/21 14:22	1
o-Terphenyl	103		70 - 130			10/18/21 08:11	10/18/21 14:22	1
_ Method: 300.0 - Anions, Ion Cł	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	918		4.96	mg/Kg			10/19/21 18:51	1
Client Sample ID: PH03A						Lab Sar	nple ID: 890-	1428-2
Date Collected: 10/08/21 12:43							Matri	ix: Solid
Date Received: 10/14/21 12:12								
Sample Depth: 3								
– Method: 8021B - Volatile Orgar	nic Compounds (	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.103		0.00198	mg/Kg		10/18/21 14:06	10/20/21 01:58	1
Toluene	5.60		0.200	ma/Ka		10/19/21 15:07	10/21/21 18:08	100

Toluene 5.60 0.200 mg/Kg 10/19/21 15:07 10/21/21 18:08 100 0.200 mg/Kg 10/19/21 15:07 10/21/21 18:08 100 Ethylbenzene 3.64 0.0534 0.00396 mg/Kg 10/18/21 14:06 10/20/21 01:58 1 m-Xylene & p-Xylene o-Xylene 7.32 0.200 mg/Kg 10/19/21 15:07 10/21/21 18:08 100 0.399 10/19/21 15:07 10/21/21 18:08 100 **Xylenes**, Total 20.5 mg/Kg

Eurofins Xenco, Carlsbad

Job ID: 890-1428-1 SDG: 31402909.130

#### **Client Sample ID: PH03A**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 12:43 Date Received: 10/14/21 12:12

Sample Depth: 3

Client: WSP USA Inc.

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	715	S1+	70 - 130			10/18/21 14:06	10/20/21 01:58	
1,4-Difluorobenzene (Surr)	56	S1-	70 - 130			10/18/21 14:06	10/20/21 01:58	
Method: Total BTEX - Total BTEX	Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	16.7		0.200	mg/Kg			10/21/21 17:04	
Method: 8015 NM - Diesel Range	Organics (DR	D) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	6640		49.9	mg/Kg			10/20/21 13:58	· · ·
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	· · ·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1060		49.9	mg/Kg		10/18/21 08:11	10/18/21 14:52	
Diesel Range Organics (Over C10-C28)	4780		49.9	mg/Kg		10/18/21 08:11	10/18/21 14:52	
Oll Range Organics (Over C28-C36)	799		49.9	mg/Kg		10/18/21 08:11	10/18/21 14:52	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	123		70 - 130			10/18/21 08:11	10/18/21 14:52	
o-Terphenyl	105		70 - 130			10/18/21 08:11	10/18/21 14:52	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4420		25.2	mg/Kg			10/19/21 18:57	Ę
lient Sample ID: PH03B						Lab San	nple ID: 890-	1428-3
ate Collected: 10/08/21 12:56							Matri	x: Solid
ate Received: 10/14/21 12:12								
ample Depth: 6								
Method: 8021B - Volatile Organic	Compounds (	GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:18	
Toluene	0.0222		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:18	
Ethylbenzene	0.00621		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:18	
m-Xylene & p-Xylene	0.0297		0.00398	mg/Kg		10/18/21 14:06	10/20/21 02:18	
o-Xylene	0.0242		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:18	
Xylenes, Total	0.0539		0.00398	mg/Kg		10/18/21 14:06	10/20/21 02:18	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1 D						10/10/01 1100		

Method: Total BTEX - Total BTEX C	alculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0823		0.00398	mg/Kg			10/21/21 17:04	1

112

105

70 - 130

70 - 130

10/20/21 02:18

10/20/21 02:18

10/18/21 14:06

10/18/21 14:06

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

1

1

Lab Sample ID: 890-1428-2 Matrix: Solid

SDG: 31402909.130

Lab Sample ID: 890-1428-3

#### Project/Site: Azores Fed Com 4H **Client Sample ID: PH03B**

Date Collected: 10/08/21 12:56

#### Date Received: 10/14/21 12:12 Sample Depth: 6

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	13900		249	mg/Kg			10/20/21 13:58	1
Method: 8015B NM - Diesel Range Or	ganics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
	3310		49.9	mg/Kg		10/19/21 09:45	10/19/21 12:01	1
	9320		249	mg/Kg		10/19/21 09:45	10/20/21 07:49	5
	1250		49.9	mg/Kg		10/19/21 09:45	10/19/21 12:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	259	S1+	70 - 130			10/19/21 09:45	10/19/21 12:01	1
1-Chlorooctane	147	S1+	70 - 130			10/19/21 09:45	10/20/21 07:49	5
o-Terphenyl	191	S1+	70 - 130			10/19/21 09:45	10/19/21 12:01	1
o-Terphenyl	111		70 - 130			10/19/21 09:45	10/20/21 07:49	5
Total TPH         13900         249         mg/Kg         10/20/21 13:58           Method: 8015B NM - Diesel Range Organics (DRO) (GC)         Analyte         Result         Qualifier         RL         Unit         D         Prepared         Analyzed         Di           Gasoline Range Organics         3310         49.9         mg/Kg         10/19/21 09:45         10/19/21 12:01         Di           Jbiesel Range Organics (Over         9320         249         mg/Kg         10/19/21 09:45         10/20/21 07:49           C10-C28)         0Il Range Organics (Over         1250         49.9         mg/Kg         10/19/21 09:45         10/19/21 12:01           C28-C36)         Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Di           1-Chlorooctane         147         S1+         70 - 130         10/19/21 09:45         10/19/21 09:45         10/19/21 07:49           o-Terphenyl         191         S1+         70 - 130         10/19/21 09:45         10/20/21 07:49           Method: 300.0 - Anions, Ion Chromatography - Soluble         1011         70 - 130         10/19/21 09:45         10/20/21 07:49								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	9070		49.7	ma/Ka			10/19/21 19:02	10

Job ID: 890-1428-1

Matrix: Solid

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-1428-1 PH03 535 S1+ 93 890-1428-1 MS PH03 98 107 890-1428-1 MSD PH03 107 105 890-1428-2 **PH03A** 715 S1+ 56 S1-890-1428-3 PH03B 105 112 890-1434-A-1-B MS Matrix Spike 136 S1+ 125 890-1434-A-1-C MSD Matrix Spike Duplicate 96 92 103 110 LCS 880-9748/1-A Lab Control Sample LCS 880-9911/1-A Lab Control Sample 88 99 LCSD 880-9748/2-A Lab Control Sample Dup 95 108 LCSD 880-9911/2-A Lab Control Sample Dup 88 102 MB 880-9747/5-A Method Blank 109 93 MB 880-9748/5-A Method Blank 114 104 MB 880-9911/5-A Method Blank 100 104 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Percent Surrogate Recovery (Acceptance Limits) 1001 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-1428-1 PH03 126 103 890-1428-2 **PH03A** 123 105 PH03B 890-1428-3 147 S1+ 111 890-1428-3 PH03B 259 S1+ 191 S1+ 890-1428-3 MS PH03B 312 S1+ 215 S1+ PH03B 890-1428-3 MSD 268 S1+ 203 S1+ 890-1441-A-1-D MSD Matrix Spike Duplicate 109 110 112 890-1441-A-1-E MS Matrix Spike 109 LCS 880-9628/2-A Lab Control Sample 92 95 LCS 880-9834/2-A Lab Control Sample 94 96 LCSD 880-9628/3-A Lab Control Sample Dup 89 93 LCSD 880-9834/3-A Lab Control Sample Dup 86 89 MB 880-9628/1-A Method Blank 112 130 MB 880-9834/1-A Method Blank 101 116

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

Job ID: 890-1428-1

Page 151 of 286

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

Lab Sample ID: MB 880-9747/	5-A								<b>Client Sa</b>	mple ID: Me		
Matrix: Solid										Prep Typ	e: To	tal/NA
Analysis Batch: 9846										Prep E	Batch	: 9747
	ME	MB										
Analyte	Result	Qualifier	RL	·	Unit		D	P	repared	Analyzed		Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Toluene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
	ME	МВ										
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
1,4-Difluorobenzene (Surr)	93	1	70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
Lab Sample ID: MB 880-9748/	5-A								Client Sa	mple ID: Me		
Matrix: Solid										Prep Typ	e: To	tal/NA
Analysis Batch: 9846										Prep E	Batch	: <b>974</b> 8
	MB	MB										
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed		Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Toluene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
	ME	МВ										
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130					10/1	8/21 14:06	10/20/21 01:	16	1
1,4-Difluorobenzene (Surr)	104	!	70 - 130					10/1	8/21 14:06	10/20/21 01:	16	1
- Lab Sample ID: LCS 880-9748	8/1-A						С	lient	Sample	ID: Lab Cont	rol S	ample
Matrix: Solid										Prep Typ		
Analysis Batch: 9846										Prep E		
			Spike	LCS	LCS					• %Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1040		mg/Kg			104	70 - 130		
Toluene			0.100	0.08958		mg/Kg			90	70 - 130		
Ethylbenzene			0.100	0.08535		mg/Kg			85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1765		mg/Kg			88	70 - 130		
o-Xylene			0.100	0.09487		mg/Kg			95	70 - 130		
0-Xylene			0.100	0.03407		ing/itg			30	70 - 100		
•	LCS LCS											
Surrogate	%Recovery Qu	aimer	Limits									
4-Bromofluorobenzene (Surr)	103		70 - 130									
1,4-Difluorobenzene (Surr)	110		70 - 130									
Lab Sample ID: LCSD 880-974	48/2-A					CI	ient	Sam	ple ID: L	ab Control S		
Matrix: Solid										Prep Typ		
Analysis Batch: 9846										Prep E	Batch	
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09387	-	mg/Kg			94	70 - 130	10	35

5

Job ID: 890-1428-1

SDG: 31402909.130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1428-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-9748/ Matrix: Solid	2-A					Clie	ent Sa	ample ID: I	ab Control: Prep Ty		
Analysis Batch: 9846										Batch	
			Spike	LCSD	LCSD				%Rec.		RPI
Analyte			Added	Result	Qualifier	Unit	I	D %Rec	Limits	RPD	Limi
Toluene			0.100	0.08336		mg/Kg		83	70 - 130	7	3
Ethylbenzene			0.100	0.07798		mg/Kg		78	70 - 130	9	3
m-Xylene & p-Xylene			0.200	0.1605		mg/Kg		80	70 ₋ 130	9	3
o-Xylene			0.100	0.08265		mg/Kg		83	70 - 130	14	3
_		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								
Lab Comple ID: 900 4429 4 MC									Client Com		
Lab Sample ID: 890-1428-1 MS Matrix: Solid									Client Sam		
									Prep Ty		
Analysis Batch: 9846	Sampla	Somela	Spike	ме	MS					Batch	. 9/4
Analyte	-	Sample Qualifier	Spike Added		MS Qualifier	Unit		D %Rec	%Rec. Limits		
Analyte	0.0165		Added	0.09876	Quaimer			D %Rec - 83			
	0.0165	<b>F</b> 4	0.0996		<b>F</b> 4	mg/Kg					
Toluene				0.08737		mg/Kg		-20	70 ₋ 130		
Ethylbenzene	0.181	F1	0.0996	0.08507	F1	mg/Kg		-96	70 - 130		
m-Xylene & p-Xylene	0.0164	_	0.199	0.1725		mg/Kg		78	70 ₋ 130		
o-Xylene	2.38	E	0.0996	0.08738	4	mg/Kg		-2301	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 890-1428-1 MSD	)								Client Sam	ple ID:	PH0:
Matrix: Solid									Prep Ty	pe: To	tal/N/
Analysis Batch: 9846									Prep	Batch	: 9748
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	I	D %Rec	Limits	RPD	Limi
Benzene	0.0165		0.100	0.08998		mg/Kg		73	70 - 130	9	3
Toluene	0.107	F1	0.100	0.08531	F1	mg/Kg		-22	70 - 130	2	3
Ethylbenzene	0.181	F1	0.100	0.08445	F1	mg/Kg		-96	70 ₋ 130	1	3
m-Xylene & p-Xylene	0.0164		0.200	0.1755		mg/Kg		80	70 - 130	2	3
o-Xylene	2.38	E	0.100	0.08882	4	mg/Kg		-2291	70 - 130	2	3
	MOD	MSD									
Surrogata	%Recovery		Limita								
Surrogate           4-Bromofluorobenzene (Surr)	107	Quaimer									
1,4-Difluorobenzene (Surr)			70 - 130 70 - 130								
	105		70 - 730								
Lab Sample ID: MB 880-9911/5-/	4							Client S	ample ID: M	ethod	Blanl
Matrix: Solid									Prep Ty	pe: To	tal/N/
Analysis Batch: 10084									Prep	Batch	: <b>991</b> 1
		MB MB									
Analyte	R	esult Qualifie	er R	L	Unit		<u>D</u>	Prepared	Analyzed	<u> </u>	Dil Fa
Benzene	<0.0	0200 U	0.0020	00	mg/K	g	1	0/19/21 15:07	10/21/21 13	:59	
Toluene	<0.0	0200 U	0.0020	00	mg/K	g	1	0/19/21 15:07	10/21/21 13	:59	
Ethylbenzene	<0.0	0200 U	0.0020	0	mg/K	a	1	0/19/21 15:07	10/21/21 13	:59	
						3					

Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

#### Job ID: 890-1428-1 SDG: 31402909.130

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

Analysis Batch: 10084										Prep E	satch	: 9911
	ME	MB										
Analyte		Qualifier			Unit		D		repared	Analyzed		Dil Fac
o-Xylene	<0.00200		0.00200		mg/ł	•		10/1	9/21 15:07	10/21/21 13:	59	1
Xylenes, Total	<0.00400	U	0.00400		mg/ł	٢g		10/1	9/21 15:07	10/21/21 13:	59	
	ME	B MB										
Surrogate	%Recovery	Qualifier	Limits					Р	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	100	)	70 - 130					10/1	9/21 15:07	10/21/21 13:	59	1
1,4-Difluorobenzene (Surr)	104	1	70 - 130					10/1	9/21 15:07	10/21/21 13:	59	1
Lab Sample ID: LCS 880-991	I1/1-A						C	lient	Sample	ID: Lab Cont	rol S	ample
Matrix: Solid									- C.	Prep Typ		
Analysis Batch: 10084										Prep E		
-			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1034		mg/Kg			103	70 - 130		
Toluene			0.100	0.1080		mg/Kg			108	70 - 130		
Ethylbenzene			0.100	0.1174		mg/Kg			117	70 - 130		
m-Xylene & p-Xylene			0.200	0.2275		mg/Kg			114	70 ₋ 130		
o-Xylene			0.100	0.1186		mg/Kg			119	70 - 130		
	LCS LC	s										
Surrogate	%Recovery Qu	alifier	Limits									
4-Bromofluorobenzene (Surr)	88		70 - 130									
1,4-Difluorobenzene (Surr)	99		70 - 130									
Lab Sample ID: LCSD 880-9	911/2-A					CI	ient	Sam	nple ID: L	ab Control S	ampl	le Dup
Matrix: Solid									· · · ·	Prep Typ		
Analysis Batch: 10084										Prep E		
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Benzene			0.100	0.1055		mg/Kg			105	70 - 130	2	35
Toluene			0.100	0.1109		mg/Kg			111	70 ₋ 130	3	35
Ethylbenzene			0.100	0.1167		mg/Kg			117	70 ₋ 130	1	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	102		70 _ 130

#### Lab Sample ID: 890-1434-A-1-B MS Matrix: Solid

Analysia Potaby 10094

m-Xylene & p-Xylene

o-Xylene

Analysis Batch: 10084									Pre	p Batch: 9911
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0990	0.09342		mg/Kg		94	70 - 130	
Toluene	<0.00199	U	0.0990	0.1154		mg/Kg		116	70 - 130	
Ethylbenzene	<0.00199	U	0.0990	0.1197		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2190		mg/Kg		111	70 - 130	
o-Xylene	<0.00199	U F1	0.0990	0.1308	F1	mg/Kg		131	70 - 130	

0.200

0.100

0.2266

0.1189

mg/Kg

mg/Kg

113

119

70 - 130

70 - 130

**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

0

0

35

35

Eurofins Xenco, Carlsbad

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

#### Lab Sample ID: 890-1434-A-1-B MS

#### Matrix: Solid Analysis Batch: 10084

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

#### Lab Sample ID: 890-1434-A-1-C MSD Matrix: Solid

#### Analysia Bataby 10094

Analysis Batch: 10084									Pre	p Batch	ı: 9911
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.07836		mg/Kg		78	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.09275		mg/Kg		92	70 - 130	22	35
Ethylbenzene	<0.00199	U	0.100	0.09852		mg/Kg		99	70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1818		mg/Kg		91	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.09965		mg/Kg		99	70 _ 130	27	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								

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

_ Lab Sample ID: MB 880-9628/1-A								Client S	ample ID: Metho	d Blank
Matrix: Solid								onone o	Prep Type:	
Analysis Batch: 9623									Prep Bat	
-	MB	MB								
Analyte	Result	Qualifier	RL		Unit		DF	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/k	(g	10/	18/21 08:11	10/18/21 11:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/k	g	10/	18/21 08:11	10/18/21 11:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/k	g	10/	18/21 08:11	10/18/21 11:23	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits				I	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130				10/	18/21 08:11	10/18/21 11:23	1
o-Terphenyl	130		70 - 130				10/	18/21 08:11	10/18/21 11:23	1
Lab Sample ID: LCS 880-9628/2-A Matrix: Solid Analysis Batch: 9623							Clien	t Sample	ID: Lab Control Prep Type: ⁻ Prep Bate	Total/NA
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	830.0		mg/Kg		83	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	95		70 - 130

#### Job ID: 890-1428-1 SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 9911

**Client Sample ID: Matrix Spike** 

Client Sample ID: Matrix Spike Duplicate

Diesel Range Organics (Over

C10-C28)

1000

925.1

mg/Kg

93

70 - 130

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

Lab Sample ID: LCSD 880-962 Matrix: Solid	.0/ <b>3-</b> A								ient a	am	Je ID. L	ab Control		
												Prep T		
Analysis Batch: 9623				Spike		LCSD						%Rec.	) Batc	h: 962 RP
Analyto				Spike Added			Qualifier	Unit		D	% Pac	%Rec. Limits	RPD	
Analyte							Qualifier			<u> </u>	%Rec			
Gasoline Range Organics (GRO)-C6-C10				1000		778.9		mg/Kg			78	70 - 130	6	2
Diesel Range Organics (Over				1000		929.8		mg/Kg			93	70 - 130	1	2
C10-C28)						020.0						10 100		-
,			_											
	LCSD													
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	89			70 - 130										
o-Terphenyl	93			70 - 130										
Lab Sample ID: 890-1441-A-1-									Clien	t Sai	mnle ID	: Matrix Sp	iko Dı	unlicat
Matrix: Solid									onen	t Oai	inple iD	Prep T		
Analysis Batch: 9623														h: 962
Analysis Batch. 5025												LICH	J Date	11. 302
	MSD	MSE	)											
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	109			70 - 130										
o-Terphenyl	110			70 - 130										
Lab Sample ID: 890-1441-A-1-	EMS										Client	Sample ID:		
Matrix: Solid												Prep T		
Analysis Batch: 9623													o Batc	h: 962
	Sample		-	Spike		MS	MS					%Rec.		
Analyte	Result		lifier	Added			Qualifier	Unit		<u>D</u>	%Rec	Limits		
Gasoline Range Organics	<49.9	U		999		882.7		mg/Kg			86	70 - 130		
(GRO)-C6-C10	<10.0			000		1055		malka			102	70 120		
Diesel Range Organics (Over C10-C28)	<49.9	U		999		1055		mg/Kg			103	70 - 130		
010-028)														
	MS	MS												
Surrogate	%Recovery	Qua	lifier	Limits										
1-Chlorooctane	109			70 - 130										
o-Terphenyl	112			70 - 130										
												and the line l		
Lab Sample ID: MB 880-9834/1	1-A										silent S	ample ID: M		
Matrix: Solid												Prep T		
Analysis Batch: 9827			мв									Prep	o Batc	h: 983
Awalada	_						1114		~			A	1	D!! E-
Analyte		50.0	Qualifier		RL		Unit		<u>D</u>		epared	Analyze		Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<	50.0	U		50.0		mg/k	kg		10/19	/21 09:45	10/19/21 1	0:56	
Diesel Range Organics (Over	<	\$0.0	U		50.0		mg/k	Kq		10/19	/21 09:45	10/19/21 1	0:56	
C10-C28)								5						
Oll Range Organics (Over C28-C36)	<	\$50.0	U		50.0		mg/k	٢g		10/19	/21 09:45	10/19/21 1	0:56	
		ΜВ	МВ											
										_				
Surrogate	%Reco	verv	Qualifier	Limit	s					Pre	epared	Analvze	ed	DIIFa
Surrogate 1-Chlorooctane	%Reco	<b>very</b> 101	Qualifier	<i>Limit</i> 70 _ 1					-		epared /21 09:45	Analyze		Dil Fa

Released to Imaging: 4/27/2022 11:07:44 AM

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1428-1 SDG: 31402909.130

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

Lab Sample ID: LCS 880-9834/2	- <b>A</b>						Client	Samp	le ID: Lab Co	ontrol Sa	ample
Matrix: Solid										ype: To	-
Analysis Batch: 9827										p Batch	
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	822.9		mg/Kg		82	70 - 130		
GRO)-C6-C10											
Diesel Range Organics (Over			1000	1015		mg/Kg		101	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	94		70 - 130								
p-Terphenyl	96		70 - 130								
Lab Sample ID: LCSD 880-9834/	/ <b>3-A</b>					Clie	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										ype: To	
Analysis Batch: 9827										p Batch	
			Spike		LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics			1000	825.7		mg/Kg		83	70 - 130	0	20
GRO)-C6-C10 Diesel Range Organics (Over			1000	965.7		ma/Ka		97	70 - 130	5	20
C10-C28)			1000	905.7		mg/Kg		97	10 - 130	Э	20
		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
-Chlorooctane	86		70 - 130								
-Terphenyl	89		70 - 130								
Lab Sample ID: 890-1428-3 MS									Client Sam		
Matrix: Solid										ype: To	
Analysis Batch: 9827										p Batch	
Analysis Buton. 3027	Sample	Sample	Spike	MS	MS				%Rec.	p Batell	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	3310		998	4234		mg/Kg		92	70 - 130		
GRO)-C6-C10	0010		000	1204				02	100		
	MS										
	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
p-Terphenyl	215	S1+	70 - 130								
Lab Sample ID: 890-1428-3 MSD									Client Sam		
Lab Sample ID. 690-1426-5 MSL Matrix: Solid	•									ype: To	
Analysis Batch: 9827										p Batch	
-1101y515 Daton. 3021	Sample	Sample	Spike	Men	MSD				%Rec.		. 9034 RPD
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	3310	quaimer	1000	4491	Quaimer	mg/Kg		118	70 - 130	6 KPD	20
GRO)-C6-C10	3310		1000	4491		myrky		110	10 - 130	U	20
	MSD										
Surrogate	%Recovery		Limits								
1-Chlorooctane		S1+	70 - 130								
o-Terphenyl	202	S1+	70 - 130								

#### **QC Sample Results**

Job ID: 890-1428-1 SDG: 31402909.130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

#### Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-9736/1-A Matrix: Solid										ample ID: Prep	Type: S	
Analysis Batch: 9838											~ •	
	, I	ИВ МВ										
Analyte	Res	ult Qualifier		RL	Unit	t	D	Pre	pared	Analyz	ed	Dil Fac
Chloride	<5.	.00 U		5.00	mg/	Kg				10/19/21	16:36	
Lab Sample ID: LCS 880-9736/2-A							Clie	ent S	Sample	ID: Lab C	ontrol S	ample
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 9838												
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		<u>D</u>	%Rec	Limits		
Chloride			250	238.4		mg/Kg			95	90 - 110		
Lab Sample ID: LCSD 880-9736/3-A						CI	ient S	amp	le ID: I	_ab Contro	ol Sampl	le Dup
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 9838												
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added		Qualifier	Unit		D	%Rec	Limits	RPD	Limi
Chloride			250	239.3		mg/Kg			96	90 - 110	0	20
Lab Sample ID: 890-1422-A-28-B MS	1								Client	Sample ID	: Matrix	Spike
Matrix: Solid										Prep	Type: S	oluble
Analysis Batch: 9838												
	Sample S	ample	Spike	MS	MS					%Rec.		
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits		
Chloride	967		251	1199	1	mg/Kg			93	90 ₋ 110		
Lab Sample ID: 890-1422-A-28-C MS	D						Client	San	nple ID	: Matrix S	oike Dup	plicate
Matrix: Solid									-		Type: S	
Analysis Batch: 9838												
	Sample S	ample	Spike	MSD	MSD					%Rec.		RPD
Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limi
-												

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

5

Job ID: 890-1428-1 SDG: 31402909.130

#### **GC VOA**

#### Prep Batch: 9747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9747/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 9748					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	5035	
890-1428-2	PH03A	Total/NA	Solid	5035	
890-1428-3	PH03B	Total/NA	Solid	5035	
MB 880-9748/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1428-1 MS	PH03	Total/NA	Solid	5035	
890-1428-1 MSD	PH03	Total/NA	Solid	5035	
Analysis Batch: 9846					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	8021B	9748

890-1428-1	PH03	Total/NA	Solid	8021B	9748	
890-1428-2	PH03A	Total/NA	Solid	8021B	9748	
890-1428-3	PH03B	Total/NA	Solid	8021B	9748	
MB 880-9747/5-A	Method Blank	Total/NA	Solid	8021B	9747	
MB 880-9748/5-A	Method Blank	Total/NA	Solid	8021B	9748	
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	8021B	9748	
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9748	
890-1428-1 MS	PH03	Total/NA	Solid	8021B	9748	
890-1428-1 MSD	PH03	Total/NA	Solid	8021B	9748	

#### Prep Batch: 9911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	5035	
890-1428-2	PH03A	Total/NA	Solid	5035	
MB 880-9911/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 10084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	8021B	9911
890-1428-2	PH03A	Total/NA	Solid	8021B	9911
MB 880-9911/5-A	Method Blank	Total/NA	Solid	8021B	9911
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	8021B	9911
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9911
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	9911
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9911

#### Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	Total BTEX	
890-1428-2	PH03A	Total/NA	Solid	Total BTEX	
890-1428-3	PH03B	Total/NA	Solid	Total BTEX	

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#### **QC** Association Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

#### GC Semi VOA

#### Analysis Batch: 9623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method
890-1428-1	PH03	Total/NA	Solid	8015B NM
890-1428-2	PH03A	Total/NA	Solid	8015B NM
MB 880-9628/1-A	Method Blank	Total/NA	Solid	8015B NM
LCS 880-9628/2-A	Lab Control Sample	Total/NA	Solid	8015B NM
LCSD 880-9628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM
890-1441-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM
890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM

#### Prep Batch: 9628

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Total/NA	Solid	8015NM Prep	
890-1428-2	PH03A	Total/NA	Solid	8015NM Prep	
MB 880-9628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1441-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 9827

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1428-3	PH03B	Total/NA	Solid	8015B NM	9834
890-1428-3	PH03B	Total/NA	Solid	8015B NM	9834
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015B NM	9834
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9834
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9834
890-1428-3 MS	PH03B	Total/NA	Solid	8015B NM	9834
890-1428-3 MSD	PH03B	Total/NA	Solid	8015B NM	9834

#### Prep Batch: 9834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-3	PH03B	Total/NA	Solid	8015NM Prep	-
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1428-3 MS	PH03B	Total/NA	Solid	8015NM Prep	
890-1428-3 MSD	PH03B	Total/NA	Solid	8015NM Prep	

#### Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-1428-1 PH03 Total/NA Solid 8015 NM PH03A Total/NA 890-1428-2 Solid 8015 NM PH03B Total/NA 890-1428-3 Solid 8015 NM

#### HPLC/IC

#### Leach Batch: 9736

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method Prep Ba	atch
890-1428-1	PH03	Soluble	Solid	DI Leach	
890-1428-2	PH03A	Soluble	Solid	DI Leach	
890-1428-3	PH03B	Soluble	Solid	DI Leach	
MB 880-9736/1-A	Method Blank	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

9628

8

Job ID: 890-1428-1

SDG: 31402909.130

#### HPLC/IC (Continued)

#### Leach Batch: 9736 (Continued)

Leach Batch: 9736 (Cor	ntinued)				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-9736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	5
890-1422-A-28-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1422-A-28-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
Analysis Batch: 9838					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-1	PH03	Soluble	Solid	300.0	9736
890-1428-2	PH03A	Soluble	Solid	300.0	9736
890-1428-3	PH03B	Soluble	Solid	300.0	9736 🧕
MB 880-9736/1-A	Method Blank	Soluble	Solid	300.0	9736
LCS 880-9736/2-A	Lab Control Sample	Soluble	Solid	300.0	9736 🧃
LCSD 880-9736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9736
890-1422-A-28-B MS	Matrix Spike	Soluble	Solid	300.0	9736
890-1422-A-28-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9736

Job ID: 890-1428-1 SDG: 31402909.130

Job ID: 890-1428-1 SDG: 31402909.130

#### Lab Sample ID: 890-1428-1 Matrix: Solid

Lab Sample ID: 890-1428-2

Lab Sample ID: 890-1428-3

Matrix: Solid

Matrix: Solid

Client Sample ID: PH03 Date Collected: 10/08/21 12:40 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 17:48	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 01:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 16:53	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		1			9838	10/19/21 18:51	СН	XEN MID

#### **Client Sample ID: PH03A**

Date Collected: 10/08/21 12:43 Date Received: 10/14/21 12:12

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 18:08	MR	XEN MID
Total/NA	Prep	5035			5.05 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 01:58	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		5			9838	10/19/21 18:57	СН	XEN MID

#### Client Sample ID: PH03B Date Collected: 10/08/21 12:56 Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9748	10/18/21 14:06	KL	XEN MIC
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 02:18	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 12:01	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		5			9827	10/20/21 07:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		10			9838	10/19/21 19:02	СН	XEN MID

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

428-1 c: Solid

10

#### Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1428-1 SDG: 31402909.130

#### Laboratory: Eurofins Xenco, Midland

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

hority	Pi	rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report in	ut the laboratory is not certit	ied by the governing authority. This list ma	av include analytes for w
the agency does not of	fer certification.	,	, , , , ,	
• •	•	Matrix Solid	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Project/Site: Azores Fed Com 4H

#### Job ID: 890-1428-1 SDG: 31402909.130

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:

Client: WSP USA Inc.

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

#### **Sample Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1428-1 SDG: 31402909.130

ID Client Sample ID	Matrix	Collected	Received	Depth	
PH03	Solid	10/08/21 12:40	10/14/21 12:12	1	4
PH03A	Solid	10/08/21 12:43	10/14/21 12:12	3	
PH03B	Solid	10/08/21 12:56	10/14/21 12:12	6	5
					6
					8
					9
					12
					1:

nings     Bill to: (r dreven)       A     Company Name:       A Street     Address:       TX 79705     Email: Kalei jennings@wsp.com       Azores Fed Com 4H     Turn Around       31402909.130     Email: Kalei jennings@wsp.com       Lea County     Rush:       Fatima Smith     Due Date:       Temp Blank     Correction Factor:       S     10/8/2021       1243     3'       1     1       S     10/8/2021       1243     3'       1     1       S     10/8/2021       1243     3'       1     1       Number of Containers       Is No     No	Anno     Bill or (reference)       A     Company Name:       th A Street     Address       TX 79705     Cuty, State ZIP:       140/2009 130     Email: [kalei.jennings@wsp.com       Temp Blank:     No       Vet ice:     No       No     No       Vet ice:     No       Vet ice:     State       No     No       Vet ice:     State       No     No       No     No       No     No       No     No	Mings     Billito (rameenti (mage)     Work     With Address     Millito (rameenti (mage)       14.02905 1300     Email: kalel (enrings@vsp.com)     Fillita (enrings@vsp.com)     Fillita (enrings@vsp.com)       14.02905 1300     Email: kalel (enrings@vsp.com)     Fillita (enrings@vsp.com)     Fillita (enrings@vsp.com)       14.02905 1300     Email: kalel (enrings@vsp.com)     Fillita (enrings@vsp.com)     Fillita (enrings@vsp.com)       14.02905 1300     Email: kalel (enrings@vsp.com)     Ant.YSIS RECUEST     Reporting Level []       14.02905 1300     Routine:     Fillita (enrings@vsp.com)     Ant.YSIS RECUEST       15.0100/02021     12.43     3     1     Fillita (enrings@vsp.com)       16.0100/02021     12.65     5     1     Fillita (enrings@vsp.com)       16.0100/02021     12.66     5     1     Fillita (enrings@vsp.com)       10.0100/021     12.66     5 </th <th>Bill to:     Indexem       Bill to:     Indexem       Address:     Address:       Company Name:     State of Project:       Rush:     No       Termonaler ID     No       Thermonaler ID     No       Thermonaler ID     No       Thermonaler ID     No       No     Wet fee:       No     Wet fee:       No     Wet fee:       No     Wet fee:       No     No       Thermonaler ID     Number of Containers       Thermonaler ID     Number of Containers       No     No       No</th> <th>Relipquished by (Signature)</th> <th>Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of sample of service. Xenco will be liable only for the cost of samples and s of Xenco. A minimum charge of \$75.00 will be applied to each pro</th> <th>Total 200.7 / 6010 200</th> <th></th> <th></th> <th></th> <th></th> <th>PH03B</th> <th>PH03A</th> <th>PH03</th> <th>Sample Identification</th> <th>Sample Custody Seals: Yes</th> <th>Cooler Custody Seals: Yes</th> <th>Received Intact:</th> <th>Temperature (°C): 2.</th> <th>SAMPLE RECEIPT</th> <th>Sampler's Name:</th> <th>Location:</th> <th>Project Number:</th> <th>Project Name:</th> <th></th> <th>City, State ZIP: Midland, TX 79705</th> <th></th> <th>Company Name: WSP USA</th> <th>Project Manager: Kalei Jennings</th> <th></th>	Bill to:     Indexem       Bill to:     Indexem       Address:     Address:       Company Name:     State of Project:       Rush:     No       Termonaler ID     No       Thermonaler ID     No       Thermonaler ID     No       Thermonaler ID     No       No     Wet fee:       No     Wet fee:       No     Wet fee:       No     Wet fee:       No     No       Thermonaler ID     Number of Containers       Thermonaler ID     Number of Containers       No     No       No	Relipquished by (Signature)	Circle Method(s) and Metal(s) to be analyzed Notice: Signature of this document and relinquishment of sample of service. Xenco will be liable only for the cost of samples and s of Xenco. A minimum charge of \$75.00 will be applied to each pro	Total 200.7 / 6010 200					PH03B	PH03A	PH03	Sample Identification	Sample Custody Seals: Yes	Cooler Custody Seals: Yes	Received Intact:	Temperature (°C): 2.	SAMPLE RECEIPT	Sampler's Name:	Location:	Project Number:	Project Name:		City, State ZIP: Midland, TX 79705		Company Name: WSP USA	Project Manager: Kalei Jennings	
Bill to:     (r different)       Company Name:     Address:       City, State ZIP:     City, State ZIP:       Turn Around     Routine:       Rush:     Due Date:       Due Date:     No       Thermometer ID     No       Wet Ice:     Ves.       No     Wet Ice:       No     Wet Ice:       Rush:     Due Date:       Rush:     Due Date:       Due Date:     No       Time     Depth       Rush:     Containers       1240     1'       1256     6'       11243     3'       1256     6'       11243     1       Number of Containers       TCLP / SPLP     6010:       BRCRA 13PPM Texas 11 Al Sb As Ba       TCLP / SPLP 6010:     BRCRA 3b As Ba       TCLP / SPLP 6010:     BRCRA 3b As Ba       TPH (EPA 88015)     BTEX (EPA 0=8021)	Bill to: (r different)       Company Name:       Company Name:       Address:       City, State ZIP:       Due Date:       Rush:       Due Date:       Rush:       Due Date:       No       Wet Lee:       Value:       Rush:       Due Date:       Rush:       Due Date:       No       Wet Lee:       Value:       Value:       Value:       No       Wet Lee:       Value:       Value:       No       No       Wet Lee:       Value:       Value:       No       Number of Containers       Infractor:       Ontainers:       Infractor:       No       Number of Containers       Infractor:       No       Number of Containers       No       Number of Containers       Infractor:       No	Bill to ( comeve)     mail       Bill to ( comeve)     mail       Company Name     model       Address     model       Company Name     model       Reporting Level D     model       Rush:     model	gnature		tat(s) to be analyzed d relinquishment of samples r the cost of samples and sh 0 will be applied to each proj				K.	_					NO NA	NO NA	No	.4/2.2	Ì	Fatima Smith	Lea County	31402909.130	Azores Fed Com 4H	3-2503	TX 79705	3300 North A Street	A	nings	
Image: Second	In the contract of the contrac	Indexem	gnature		ICLE / SPLF 607 constitutes a valid purchase all not assume any responsit lect and a charge of \$5 for eac	BRCRA 13PPM Tex		K	at 1/h		1256	1243	1240	Time Sampled	ontainers:	1	FOO-WM	Thermometer ID		Due Date:	Rush:	Routine:	Turn Arou	Email: kalei.j	City, S	Addres	Compa	Bill to:	
	ANALYSIS REC ANALYSIS REC Chloride (EPA 300.0) Be B Cd Ca Cr Co Cu Fe Be Cd Cr Co Cu P5 Mn o Xanco, Its affiliates and subcontractors. see incurred by the client if such losses an o, but not analyzed. These terms will be end by (Sign	AMALYSIS REQUEST AMALYSIS REQUEST AMALYSIS REQUEST AMALYSIS REQUEST BE B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se as incurred by the client if such orses are due to circumstances beyond the or owned by (Signature) Received by	gnature		order from client company to illity for any losses or expension h sample submitted to Xenc	as 11 Al Sb As Ba								Numbo TPH (E	PA 8	015)							Ind	ennings@wsp.com	tate ZIP:	Š.	iny Name:	(if different)	



XENCO

13

Houston, TX (281) 240-4200. Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Chain of Custody

Work Order No:

## Received by OCD: 3/18/2022 1:35:11 PM

	Custody Seals Intact: Custody Seal No	Relinquished by	Relinquished by	Relinquished by Up O4 10 · (4 · ·	Empty Kit Relinquished by	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	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 shippment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matinx 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.								PH03A (890-1428-2)	PH03 (890-1428-1)		Sample Identification - Client ID (Lab ID)		Site	Project Name Azores Fed Com 4H	Email	Phone 432-704-5440(Tel)	State Zip TX, 79701	City Midland	Address 1211 W Florida Ave	Company Eurofins Xenco	Client Contact Shipping/Receiving	Client Information (Sub Contract Lab)	Carlsbad, NM 88220 Phone. 575-988-3199 Fax: 575-988-3199	Eurofins Xenco, Carlsbad
		Date/Time.	Date/Time	24 Date/Time		Primary Deliverable Rank 2		LLC places the ownership atrix being analyzed the sa the signed Chain of Cus								10/8/21	10/8/21	N	Sample Date		SSOW#:	Project # 89000048	WO #	PO#		TAT Requested (days)	Due Date Requested 10/20/2021		Phone	Sampler		-
					Date	able Rank		of method ar imples must t stody attesting								12 43 Mountain	12 40 Mountain	M	Time	Sample						vs).	α. 					hain
						N		alyte & accreo be shipped bac to said comp										Preserv	G=grab)	Sample Type (C=comp,												
		Company	Company	Company				litation compli k to the Eurof licance to Eur								Solid	Solid	Preservation Code:	BT-Tissue, A=Alr	Matrix (W=water S=solid 0=waste/oli,									E-Mail jessic	Kn	, iouy	
		-			Time	ds.	Sa	ance upon ins Xenco   ofins Xenco										X	⊡ Fie	id Filtered S rform MS/M				o)		<u>.</u>		Accredi NELA	E-Mail jessica kramer@eurofinset.com	<u>,</u> er ~		
	Cooler	Received by	Recel	Receiv		Special Instructions/	Sample Disposal ( A fee	out subc LLC labo 5 LLC.								×	×		<u> </u>	6MOD_NM/8								Accreditations Required (See note). NELAP - Louisiana NELAP - Texas	ner@e	Jessica		2
	Cooler Temperature(	red by:	ved by	A A		nstruct	le Disposal ( A f Return To Client	ontract ratory o	<u> </u>							x x	× ×			0_ORGFM_28 21B/6036FP_0			Chlori	de				equired	urofing			
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	s) °C and			R		QC Re	l fee r nt	ories. 1 instruct								×	×	Koretaalio	801	5MOD_Caic							nalysis Requested	ote). AP - 1	З			
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	$ \mathcal{V} $		õ	Ψ			<b>tained lon</b> g Archive For	custody n status	10000	a Consessed	<u>etercia</u> nd	tor-décié	<u>annaite da</u>		<u>eentotiva</u> ?	n na tridelle	<u></u>	P			Other:		_			C Zn La	Prese	Job #: 890-1	Page: Page	COC No: 890-463 1		er Se
							nger than or	/ If the labo should be t											Special			EDA	lce Di Water	Amchlor Ascorbic Acid	Nitric Acid NaHSO4	NaOH Zn Acetate	Preservation Codes	Job #: 890-1428-1	Page: Page 1 of 1	lo: 163 1		🐝 eurofins
Ver 06/08/2021		Company	Company	Company			may be assessed if samples are retained longer than 1 month)	vratory does not currently brought to Eurofins Xenco LLC											Special Instructions/Note			vv рн 4-э Z - other (specify)			P Na2O4S Q Na2SO3	O AsNaO2	Ddes M Hexane				America	Environment Testing

13

Page 24 of 26

#### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1428 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1428-1 SDG Number: 31402909.130 List Source: Eurofins Xenco, Carlsbad 5 6 7 8 9 10 11 12 13

#### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1428 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-1428-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland List Creation: 10/15/21 12:19 PM

14

Eurofins Xenco, Carlsbad Released to Imaging: 4/27/2022 11:07:44 AM Received by OCD: 3/18/2022 1:35:11 PM

## 200 1 2 3 4 5 6 7 8 9 10 11 12 13

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

## Laboratory Job ID: 890-1429-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

## For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/22/2021 11:58:13 AM Jessica Kramer, Project Manager (432)704-5440 jessica.kramer@eurofinset.com

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

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

Visit us at: www.eurofinsus.com/Env Released to Imaging: 4/27/2022 11:07:44 AM

LINKS

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Have a Question?

Ask-

The

Expert

•

Laboratory Job ID: 890-1429-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	16
Lab Chronicle	19
Certification Summary	21
Method Summary	22
Sample Summary	23
Chain of Custody	24
Receipt Checklists	26

2

#### Client: WSP USA Project/Site: Azor

Qualifiers **GC VOA** Qualifier

GC Semi VOA Qualifier

4

F1

S1-

S1+ U

U

U

HPLC/IC Qualifier

: 3/18/2022 1:35:11 PM Page 172 of 286									
Definitions/Glossary		1							
SA Inc. Job II	D: 890-1429-1								
zores Fed Com 4H SDG: 3	31402909.130	2							
		3							
Qualifier Description		4							
MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not									
applicable. MS and/or MSD recovery exceeds control limits.		5							
Surrogate recovery exceeds control limits, low biased.									
Surrogate recovery exceeds control limits, high biased.		0							
Indicates the analyte was analyzed for but not detected.		7							
Qualifier Description		0							
Indicates the analyte was analyzed for but not detected.		0							
Qualifier Description		9							
Indicates the analyte was analyzed for but not detected.		10							
These commonly used abbreviations may or may not be present in this report.		11							
Listed under the "D" column to designate that the result is reported on a dry weight basis		4.0							

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

- TEQ Toxicity Equivalent Quotient (Dioxin)
- TNTC Too Numerous To Count

Project/Site: Azores Fed Com 4H

4

Job ID: 890-1429-1 SDG: 31402909.130

#### Job ID: 890-1429-1

Client: WSP USA Inc.

#### Laboratory: Eurofins Xenco, Carlsbad

#### Narrative

Job Narrative 890-1429-1

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9747 and analytical batch 880-9846 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH02 (890-1429-1) and PH02C (890-1429-4). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9911 and analytical batch 880-10084 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1434-A-1-D). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

#### HPLC/IC

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

Job ID: 890-1429-1 SDG: 31402909.130

#### **Client Sample ID: PH02**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 12:08 Date Received: 10/14/21 12:12

Sample Depth: 1

m-Xylene & p-Xylene

o-Xylene

Xylenes, Total

Client: WSP USA Inc.

Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0977	F1	0.00201	mg/Kg		10/18/21 14:01	10/19/21 14:46	1
Toluene	0.240		0.198	mg/Kg		10/19/21 15:07	10/21/21 19:58	100
Ethylbenzene	1.56		0.198	mg/Kg		10/19/21 15:07	10/21/21 19:58	100
m-Xylene & p-Xylene	5.13		0.396	mg/Kg		10/19/21 15:07	10/21/21 19:58	100
o-Xylene	7.64		0.198	mg/Kg		10/19/21 15:07	10/21/21 19:58	100
Xylenes, Total	12.8		0.396	mg/Kg		10/19/21 15:07	10/21/21 19:58	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	1128	S1+	70 - 130			10/18/21 14:01	10/19/21 14:46	1
1,4-Difluorobenzene (Surr)	118		70 - 130			10/18/21 14:01	10/19/21 14:46	1
Method: Total BTEX - Total BTEX Calc	ulation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	14.7		0.396	mg/Kg			10/21/21 17:04	1
Method: 8015 NM - Diesel Range Orga	nics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	7030		49.8	mg/Kg			10/20/21 13:58	1
Method: 8015B NM - Diesel Range Org								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics GRO)-C6-C10	1040		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:25	1
Diesel Range Organics (Over C10-C28)	5050		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:25	1
Oll Range Organics (Over C28-C36)	941		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130			10/18/21 08:11	10/18/21 15:25	1
o-Terphenyl	96		70 - 130			10/18/21 08:11	10/18/21 15:25	1
Method: 300.0 - Anions, Ion Chromato								
Analyte		Qualifier	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
Chloride	320		5.04	mg/Kg			10/19/21 19:08	1
lient Sample ID: PH02A						Lab San	nple ID: 890-	1429-2
ate Collected: 10/08/21 12:12							Matri	x: Solid
ate Received: 10/14/21 12:12 ample Depth: 2								
Method: 8021B - Volatile Organic Com	nounde	(6C)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
· · · · · · · · · · · · · · · · · · ·			0.00200	mg/Kg			10/19/21 15:07	1
Benzene	0.00800		0.00200	ing/itg		10/18/21 14:01	10/19/21 15.07	
Benzene Toluene	0.00800		0.200	mg/Kg		10/18/21 14:01	10/21/21 20:18	100

Eurofins Xenco, Carlsbad

10/21/21 20:18

10/19/21 15:07

10/21/21 20:18

Released to Imaging: 4/27/2022 11:07:44 AM

6.90

11.8

0.0248

0.400

0.400

0.00200

mg/Kg

mg/Kg

mg/Kg

10/19/21 15:07

10/18/21 14:01

10/19/21 15:07

10/22/2021

100

100

Job ID: 890-1429-1 SDG: 31402909.130

#### **Client Sample ID: PH02A**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 12:12 Date Received: 10/14/21 12:12

Sample Depth: 2

Surrogate

Analyte

Total BTEX

4-Bromofluorobenzene (Surr)

Method: Total BTEX - Total BTEX Calculation

1,4-Difluorobenzene (Surr)

Client: WSP USA Inc.

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	395	S1+	70 - 130			10/18/21 14:01	10/19/21 15:07	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/18/21 14:01	10/19/21 15:07	1
Method: Total BTEX - Total BTEX		-				-		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	10.6		0.400	mg/Kg			10/21/21 17:04	1
Method: 8015 NM - Diesel Range								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5950		49.8	mg/Kg	_		10/20/21 13:58	1
- Method: 8015B NM - Diesel Range	e Organics (DI	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	868		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:59	1
Diesel Range Organics (Over C10-C28)	4330		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:59	1
Oll Range Organics (Over C28-C36)	753		49.8	mg/Kg		10/18/21 08:11	10/18/21 15:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			10/18/21 08:11	10/18/21 15:59	1
o-Terphenyl	104		70 - 130			10/18/21 08:11	10/18/21 15:59	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1140		5.03	mg/Kg			10/19/21 19:14	1
lient Sample ID: PH02B						Lab San	nple ID: 890-	1429-3
ate Collected: 10/08/21 12:15							Matri	ix: Solid
Date Received: 10/14/21 12:12								
ample Depth: 3								
Method: 8021B - Volatile Organic	Compounds (	GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 15:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 15:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 15:27	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		10/18/21 14:01	10/19/21 15:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 15:27	1

Analyzed

10/19/21 15:27

10/19/21 15:27

Analyzed

10/21/21 17:04

Prepared

10/18/21 14:01

10/18/21 14:01

Prepared

D

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%Recovery Qualifier

106

110

<0.00399 U

Result Qualifier

Limits

70 - 130

70 - 130

RL

0.00399

Unit

mg/Kg

Dil Fac

Dil Fac

1

1

1

Lab Sample ID: 890-1429-2 Matrix: Solid 5

RL

RL

49.9

49.9

49.9

RL

4.97

Limits

70 - 130

70 - 130

49.9

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

D

Job ID: 890-1429-1 SDG: 31402909.130

# Project/Site: Azores Fed Com 4H Client Sample ID: PH02B

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

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

Method: 300.0 - Anions, Ion Chromatography - Soluble

Result Qualifier

Result Qualifier

Qualifier

263

<49.9 U

177

85.7

109

119

202

Result Qualifier

%Recovery

Date Collected: 10/08/21 12:15 Date Received: 10/14/21 12:12

Sample Depth: 3

Gasoline Range Organics

**Diesel Range Organics (Over** 

**Oll Range Organics (Over** 

Analyte

Analyte

C10-C28)

C28-C36)

Surrogate

o-Terphenyl

Analyte

Chloride

1-Chlorooctane

(GRO)-C6-C10

**Total TPH** 

Client: WSP USA Inc.

Lab Sample ID:	890-1429-3
	Matrix: Solid

Prepared

Prepared

10/18/21 08:11

10/18/21 08:11

10/18/21 08:11

Prepared

10/18/21 08:11

10/18/21 08:11

Prepared

Analyzed

10/19/21 19:19

Lab Sample ID: 890-1429-4

Dil Fac

Matrix: Solid

1

Client Sample II	D: PH02C
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Date Collected: 10/08/21 12:18

Date Received: 10/14/21 12:12

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.403	U	0.403	mg/Kg		10/19/21 15:07	10/21/21 20:38	200
Toluene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:01	10/19/21 15:47	1
Ethylbenzene	<0.403	U	0.403	mg/Kg		10/19/21 15:07	10/21/21 20:38	200
m-Xylene & p-Xylene	<0.806	U	0.806	mg/Kg		10/19/21 15:07	10/21/21 20:38	200
o-Xylene	<0.403	U	0.403	mg/Kg		10/19/21 15:07	10/21/21 20:38	200
Xylenes, Total	<0.806	U	0.806	mg/Kg		10/19/21 15:07	10/21/21 20:38	200
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	5	S1-	70 - 130			10/18/21 14:01	10/19/21 15:47	1
							10/10/01 15:17	
	EX Calculation	S1-	70 - 130			10/18/21 14:01	10/19/21 15:47	
Method: Total BTEX - Total BTI Analyte	EX Calculation Result	Qualifier	RL	Unit	<u>D</u>	10/18/21 14:01 Prepared	Analyzed	Dil Fa
Method: Total BTEX - Total BTI Analyte Total BTEX	EX Calculation Result <0.806	Qualifier U		<mark>Unit</mark> mg/Kg	<u>D</u>			Dil Fac
Method: Total BTEX - Total BTI	EX Calculation Result <a href="https://www.example.com">www.example.com</a> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com<=""> <a a="" href="https://wwww.example.com" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com<=""> <a a="" href="https://wwww.example.com" wwwww.example.com<=""> <a href="https://wwwwwwwwwwwwwwwwwwwwwwwwwwwww&lt;/td&gt;&lt;td&gt;Qualifier&lt;br&gt;U&lt;/td&gt;&lt;td&gt;RL&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt; &lt;u&gt;D&lt;/u&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Analyzed&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Method: Total BTEX - Total BTI&lt;br&gt;Analyte&lt;br&gt;Total BTEX&lt;br&gt;Method: 8015 NM - Diesel Rang&lt;/td&gt;&lt;td&gt;EX Calculation&lt;br&gt;Result&lt;br&gt;&lt;a href=" https:="" www.example.com"="">www.example.com</a> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com"="" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com<=""> <a a="" href="https://wwww.example.com" www.example.com<=""> <a a="" href="https://www.example.com" www.example.com<=""> <a a="" href="https://wwww.example.com" wwwww.example.com<=""> </a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a></a>							

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Job ID: 890-1429-1
SDG: 31402909.130

Lab Sample ID: 890-1429-4

#### **Client Sample ID: PH02C** Date Collected: 10/08/21 12:18

Project/Site: Azores Fed Com 4H

Date Received: 10/14/21 12:12

#### Sample Depth: 4

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	50.4		50.0	mg/Kg		10/18/21 08:11	10/18/21 16:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130			10/18/21 08:11	10/18/21 16:48	1
o-Terphenyl	107		70 - 130			10/18/21 08:11	10/18/21 16:48	1
Method: 300.0 - Anions, Ion C	hromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107		4.99	mg/Kg			10/19/21 19:25	1

Matrix: Solid

5

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Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

Percent Surrogate Recovery (Acceptance Limits) BFB1 DFBZ1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-1429-1 PH02 1128 S1+ 118 890-1429-1 MS PH02 104 105 890-1429-1 MSD PH02 105 106 890-1429-2 PH02A 395 S1+ 93 890-1429-3 PH02B 106 110 890-1429-4 PH02C 5 S1-0 S1-890-1434-A-1-B MS Matrix Spike 136 S1+ 125 890-1434-A-1-C MSD 92 Matrix Spike Duplicate 96 LCS 880-9747/1-A Lab Control Sample 108 103 LCS 880-9911/1-A Lab Control Sample 88 99 LCSD 880-9747/2-A Lab Control Sample Dup 106 102 LCSD 880-9911/2-A Lab Control Sample Dup 88 102 MB 880-9747/5-A Method Blank 109 93 MB 880-9911/5-A Method Blank 100 104 Surrogate Legend BFB = 4-Bromofluorobenzene (Surr) DFBZ = 1,4-Difluorobenzene (Surr)

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

Percent Surrogate Recovery (Acceptance Limits) 1001 OTPH1 (70-130) (70-130) Lab Sample ID **Client Sample ID** 890-1429-1 PH02 122 96 890-1429-2 PH02A 124 104 890-1429-3 PH02B 109 119 890-1429-4 PH02C 107 99 890-1441-A-1-D MSD Matrix Spike Duplicate 109 110 890-1441-A-1-E MS Matrix Spike 109 112 LCS 880-9628/2-A Lab Control Sample 92 95 LCSD 880-9628/3-A Lab Control Sample Dup 89 93 MB 880-9628/1-A Method Blank 112 130

Page 9 of 27

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Prep Type: Total/NA

Job ID: 890-1429-1 SDG: 31402909.130

Prep Type: Total/NA

Page 178 of 286

Job ID: 890-1429-1 SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 9747

**Client Sample ID: Method Blank** 

**Client Sample ID: Lab Control Sample** 

Client Sample ID: Lab Control Sample Dup

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

Lab Sample	ID: MB	880-9747/5-A

Project/Site: Azores Fed Com 4H

Matrix: Solid Analysis Batch: 9846

Client: WSP USA Inc.

Analysis Batch: 9846							Prep Bato	:h: 9747
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/18/21 14:01	10/19/21 14:25	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			10/18/21 14:01	10/19/21 14:25	1
1,4-Difluorobenzene (Surr)	93		70 - 130			10/18/21 14:01	10/19/21 14:25	1

#### Lab Sample ID: LCS 880-9747/1-A Matrix: Solid

#### Analysis Batch: 9846

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09354		mg/Kg		94	70 - 130	
Toluene	0.100	0.09048		mg/Kg		90	70 - 130	
Ethylbenzene	0.100	0.08880		mg/Kg		89	70 - 130	
m-Xylene & p-Xylene	0.200	0.1861		mg/Kg		93	70 - 130	
o-Xylene	0.100	0.09311		mg/Kg		93	70 - 130	

	LCS	LCS	
Surrogate 4-Bromofluorobenzene (Surr) 1 4-Difluorobenzene (Surr)	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

#### Lab Sample ID: LCSD 880-9747/2-A

#### Matrix: Solid

Analysis Batch: 9846							Pre	p Batch	: 9747
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09489		mg/Kg		95	70 - 130	1	35
Toluene	0.100	0.08862		mg/Kg		89	70 - 130	2	35
Ethylbenzene	0.100	0.08705		mg/Kg		87	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1827		mg/Kg		91	70 - 130	2	35
o-Xylene	0.100	0.09071		mg/Kg		91	70 - 130	3	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

#### Lab Sample ID: 890-1429-1 MS Matrix: Solid

#### Analysia Pataby 0946

Analysis Batch: 9846									Pro	ep Batch: 9747
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.0977	F1	0.100	0.1029	F1	mg/Kg		5	70 - 130	
Toluene	0.444	E	0.100	0.09589	4	mg/Kg		-346	70 - 130	

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Client Sample ID: PH02

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Method: 8021B - Volatile Or	rganic Cor	mpo	unds (C	€C) (Con	tinued)								
Lab Sample ID: 890-1429-1 MS										Client Sam	ple ID:	PH02	
Matrix: Solid										Prep Ty	/pe: To	tal/NA	
Analysis Batch: 9846										Prep	Batch	: 9747	
	Sample	Sam	ple	Spike	MS	MS				%Rec.			5
Analyte	Result	Qual	ifier	Added	Result	t Qualifier	Unit	D	%Rec	Limits			
Ethylbenzene	1.89	E		0.100	0.09382	4	mg/Kg		-1786	70 - 130			
m-Xylene & p-Xylene	3.13	Е		0.201	0.1961	4	mg/Kg		-1460	70 - 130			
o-Xylene	3.17	Е		0.100	0.09807	4	mg/Kg		-3056	70 - 130			7
	MS	MS											
Surrogate	%Recovery	Qual	lifier	Limits									8
4-Bromofluorobenzene (Surr)	104			70 - 130									
1,4-Difluorobenzene (Surr)	105			70 - 130									9
_ Lab Sample ID: 890-1429-1 MSI	п									Client Sam	nle ID:	PH02	
Matrix: Solid	5									Prep Ty	-		
Analysis Batch: 9846											Batch:		
Allalysis Daten. 3040	Sample	Sam	nle	Spike	MSD	MSD				%Rec.	Datom	. 9747 RPD	
Analyte	Result			Added		t Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.0977			0.101	0.1022		mg/Kg		4	70 - 130	1	35	
Toluene	0.444			0.101	0.09529		mg/Kg		-346	70 - 130	1	35	
Ethylbenzene	1.89			0.101	0.09345		mg/Kg		-1783	70 - 130	0	35	
m-Xylene & p-Xylene	3.13	E		0.201	0.1971		mg/Kg		-1456	70 - 130	0	35	
o-Xylene	3.17			0.101	0.09860		mg/Kg		-3049	70 - 130	1	35	
	MSD	MSD	,										
Surrogate	%Recovery	Qual	lifier	Limits									
4-Bromofluorobenzene (Surr)	105			70 - 130									
1,4-Difluorobenzene (Surr)	106			70 - 130									
_ Lab Sample ID: MB 880-9911/5-	-Δ								Client S	ample ID: M	/ethod	Blank	
Matrix: Solid	~								Unone c.	Prep Ty			
Analysis Batch: 10084											Batch		
Analysis baton. 10004		мв	МВ							1.100	Duton		
Analyte	R	esult	Qualifier		RL	Unit		D P	Prepared	Analyze	d	Dil Fac	
Benzene	<0.0	0200	U	0.00	0200	mg/K	g		19/21 15:07	/ 10/21/21 13	3:59	1	
Toluene	<0.0	0200	U	0.00	0200	mg/K	ζg	10/1	19/21 15:07	7 10/21/21 13	3:59	1	
Ethylbenzene	<0.0	0200	U	0.00	0200	mg/K	ġ	10/1	19/21 15:07	7 10/21/21 13	3:59	1	
Ethylbenzene m-Xylene & p-Xylene		)0200 )0400			0200 0400	mg/K mg/K			19/21 15:07 19/21 15:07			1	

	MB	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	10/19/21 15:07	10/21/21 13:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/19/21 15:07	10/21/21 13:59	1

0.00400

mg/Kg

<0.00400 U

#### Lab Sample ID: LCS 880-9911/1-A Matrix: Solid Analysis Batch: 10084

Xylenes, Total

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Benzene	0.100	0.1034		mg/Kg		103	70 - 130
Toluene	0.100	0.1080		mg/Kg		108	70 - 130
Ethylbenzene	0.100	0.1174		mg/Kg		117	70 - 130
m-Xylene & p-Xylene	0.200	0.2275		mg/Kg		114	70 - 130

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Prep Type: Total/NA

Prep Batch: 9911

10/19/21 15:07 10/21/21 13:59

Client Sample ID: Lab Control Sample
# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Lab Sample ID: LCS 880-9911/1-A

Matrix: Solid

Page 181 of 286

**Client Sample ID: Lab Control Sample** 

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

Analysis Batch: 10084									Pre	p Batch:	: 9911
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
o-Xylene			0.100	0.1186		mg/Kg		119	70 - 130		
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: LCSD 880-9	911/2-4					Clie	nt Sam	nle ID [.] I	Lab Contro	I Sample	
Matrix: Solid										ype: Tot	
Analysis Batch: 10084										p Batch:	
			Spike	LCSD	LCSD				%Rec.	p Baton.	RP
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Lim
Benzene			0.100	0.1055		mg/Kg		105	70 - 130	2	3
Toluene			0.100	0.1109		mg/Kg		111	70 - 130	3	3
Ethylbenzene			0.100	0.1167		mg/Kg		117	70 - 130	1	3
m-Xylene & p-Xylene			0.200	0.2266		mg/Kg		113	70 - 130	0	
o-Xylene			0.100	0.1189		mg/Kg		119	70 - 130	0	3
		LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)			70 - 130								
. ,											
Lab Sample ID: 890-1434-A	102 - <b>1-B MS</b>		70 - 130					Client	Sample ID:		
Lab Sample ID: 890-1434-A Matrix: Solid			70 - 130					Client	Prep T	: Matrix Type: Tot p Batch:	tal/N
Lab Sample ID: 890-1434-A Matrix: Solid	-1-B MS	Sample	70 - 130 Spike	MS	MS			Client	Prep T	ype: Tot	tal/N
1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte	-1-B MS Sample	Sample Qualifier			MS Qualifier	Unit	D	Client %Rec	Prep T Pre	ype: Tot	tal/N
Lab Sample ID: 890-1434-A Matrix: Solid Analysis Batch: 10084 ^{Analyte}	-1-B MS Sample	Qualifier	Spike			_ <mark>Unit</mark> mg/Kg	D		Prep T Pre %Rec.	ype: Tot	tal/N
Lab Sample ID: 890-1434-A Matrix: Solid Analysis Batch: 10084 Analyte Benzene	-1-B MS Sample Result	Qualifier	Spike Added	Result			D	%Rec	Prep T Pre %Rec. Limits	ype: Tot	tal/N
Lab Sample ID: 890-1434-A Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene	-1-B MS Sample 	Qualifier U U	Spike Added 0.0990	<b>Result</b> 0.09342		mg/Kg	D	%Rec 94	Prep T Pre %Rec. Limits 70 - 130	ype: Tot	tal/N
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene	-1-B MS Sample 	Qualifier U U U	Spike Added 0.0990 0.0990	<b>Result</b> 0.09342 0.1154		mg/Kg mg/Kg	<u> </u>	<b>%Rec</b> 94 116	Prep T Pre %Rec. Limits 70 - 130 70 - 130	ype: Tot	tal/N
Lab Sample ID: 890-1434-A Matrix: Solid Analysis Batch: 10084	-1-B MS Sample Result <0.00199 <0.00199 <0.00199	Qualifier U U U U U	Spike Added 0.0990 0.0990 0.0990	Result 0.09342 0.1154 0.1197	Qualifier	mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 94 116 121	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: Tot	tal/N
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U	Spike Added 0.0990 0.0990 0.0990 0.198	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	D	%Rec 94 116 121 111	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: Tot	tal/N
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199	Qualifier U U U U U U U F 1 <i>MS</i>	Spike Added 0.0990 0.0990 0.0990 0.198	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 94 116 121 111	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: Tot	tal/N
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Qualifier U U U U U U U F 1 <i>MS</i>	Spike Added 0.0990 0.0990 0.0990 0.198 0.0990	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	%Rec 94 116 121 111	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: Tot	tal/N/
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery	Qualifier U U U U U U U F 1 MS Qualifier	Spike Added 0.0990 0.0990 0.198 0.0990 Limits	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	%Rec 94 116 121 111	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: Tot	tal/N/
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 136 125	Qualifier U U U U U U U F 1 MS Qualifier	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 94 116 121 111 131	Prep T           %Rec.           Limits           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130           70 - 130	ype: Tot p Batch:	tal/N. : 991
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A-	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 136 125	Qualifier U U U U U U U F 1 MS Qualifier	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 94 116 121 111 131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot p Batch:	licat
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 136 125	Qualifier U U U U U U U F 1 MS Qualifier	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130	Result           0.09342           0.1154           0.1197           0.2190	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 94 116 121 111 131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot p Batch:  bike Dup ype: Tot	licat
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	-1-B MS Sample Result <0.00199 <0.00199 <0.00398 <0.00199 MS %Recovery 136 125 -1-C MSD	Qualifier U U U U U U U F 1 MS Qualifier	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130	Result 0.09342 0.1154 0.1197 0.2190 0.1308	Qualifier	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 94 116 121 111 131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	ype: Tot p Batch:	ilicat 1/N.
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084	-1-B MS Sample Result <ul> <li>&lt;0.00199</li> <li>&lt;0.00199</li> <li>&lt;0.00398</li> <li>&lt;0.00199</li> <li>&lt;0.00398</li> <li>&lt;0.00199</li> <li><i>MS</i></li> <li><i>%Recovery</i></li> <li>136</li> <li>125</li> <li>-1-C MSD</li> </ul>	Qualifier U U U U U F 1 MS Qualifier S 1+	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           0.198           70 - 130           70 - 130	Result 0.09342 0.1154 0.1197 0.2190 0.1308 MSD	<b>Qualifier</b> F1	mg/Kg mg/Kg mg/Kg mg/Kg		%Rec 94 116 121 111 131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Pre	pike Dup ype: Tot pike Sup ype: Tot p Batch:	ilicat silicat tal/N, signal silicat tal/N, signal silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat silicat sil
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084	-1-B MS Sample Result <ul> <li>&lt;0.00199</li> <li>&lt;0.00199</li> <li>&lt;0.00398</li> <li>&lt;0.00199</li> <li>&lt;0.00398</li> <li>&lt;0.00199</li> <li><i>MS</i></li> <li><i>%Recovery</i></li> <li>136</li> <li>125</li> <li>-1-C MSD</li> </ul>	Qualifier U U U U U F 1 MS Qualifier S 1+ Sample Qualifier	Spike           Added           0.0990           0.0990           0.198           0.0990           0.198           0.0990           0.198           0.091           0.198           0.0920           0.198           0.0930           0.198           0.0990           Limits           70 - 130           70 - 130           Spike	Result 0.09342 0.1154 0.1197 0.2190 0.1308 MSD	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl	ient Sa	%Rec 94 116 121 111 131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Pre %Rec.	ype: Tot p Batch:  bike Dup ype: Tot	llicat : 991 : 991 : 991 : 991 : 991 RP Lim
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 MS %Recovery 136 125 -1-C MSD Sample Result <0.00199	Qualifier U U U U U F1 MS Qualifier S1+ Sample Qualifier U	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130           70 - 130           Spike           Added           0.100	Result           0.09342           0.1154           0.1197           0.2190           0.1308	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	%Rec 94 116 121 111 131 ample ID %Rec 78	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Pre %Rec. Limits 70 - 130	bike Dup Type: Tot p Batch: Type: Tot p Batch: <u>RPD</u> 18	licat solution tal/N, solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00398 <0.00199 <i>MS</i> <i>%Recovery</i> 136 125 -1-C MSD Sample <u>Result</u> <0.00199 <0.00199 <0.00199	Qualifier U U U U U F1 MS Qualifier S1+ Sample Qualifier U U	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990              D.198           0.0990              70 - 130           70 - 130           Spike           Added           0.100	Result           0.09342           0.1154           0.1197           0.2190           0.1308             MSD           Result           0.07836           0.09275	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	ient Sa	%Rec           94           116           121           111           131	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 9: Matrix Sp Prep T Pre %Rec. Limits 70 - 130 70 - 130	Dike Dup Type: Tot Dike Dike Dike Dike Dike Dike Dike Dike Dike Dike Dike Dike	licat solution tal/N, solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution solution
Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Lab Sample ID: 890-1434-A- Matrix: Solid Analysis Batch: 10084 Analyte Benzene	-1-B MS Sample Result <0.00199 <0.00199 <0.00199 <0.00199 MS %Recovery 136 125 -1-C MSD Sample Result <0.00199	Qualifier U U U U U F 1 MS Qualifier S 1+ Sample Qualifier U U U	Spike           Added           0.0990           0.0990           0.0990           0.198           0.0990           Limits           70 - 130           70 - 130           Spike           Added           0.100	Result           0.09342           0.1154           0.1197           0.2190           0.1308	Qualifier F1	mg/Kg mg/Kg mg/Kg mg/Kg Cl Unit mg/Kg	ient Sa	%Rec 94 116 121 111 131 ample ID %Rec 78	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130 Prep T Pre %Rec. Limits 70 - 130	bike Dup Type: Tot p Batch: Type: Tot p Batch: <u>RPD</u> 18	licat

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

Method: 8021B - Volatile C	rganic Comp	ounds (	GC) (Continu	ued)							
Lab Sample ID: 890-1434-A-1-	C MSD						Client S	Sample ID	): Matrix Spik	e Dup	olicate
Matrix: Solid									Prep Typ		
Analysis Batch: 10084									Prep	Batch	: 9911
	MSD MS	n									
Surrogate		alifier	Limits								
4-Bromofluorobenzene (Surr)	<u>96</u>		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								
/ethod: 8015B NM - Diese		nics (DF									
Lab Sample ID: MB 880-9628/			,(,					Client S	ample ID: Me	othod	Blank
Matrix: Solid								Unchit C	Prep Typ		
Analysis Batch: 9623										Batch	
	ME	з мв							i i op i	Jacon	
Analyte	Resul	t Qualifier	RL		Uni	it	D	Prepared	Analyzed		Dil Fac
Gasoline Range Organics	<50.0		50.0			/Kg		/18/21 08:11			1
(GRO)-C6-C10					5	-					
Diesel Range Organics (Over C10-C28)	<50.0	) U	50.0		mg	/Kg	10/	/18/21 08:11	10/18/21 11:	23	1
Oll Range Organics (Over C28-C36)	<50.0	) U	50.0		mg	/Kg	10/	/18/21 08:11	10/18/21 11:	23	1
	ME										
Surrogate		Qualifier	Limits					Prepared	Analyzed		Dil Fac
1-Chlorooctane o-Terphenyl	11: 13		70 ₋ 130 70 - 130					/18/21 08:11 /18/21 08:11			1
Lab Sample ID: LCS 880-9628 Matrix: Solid Analysis Batch: 9623			Spike Added		LCS Qualifier	Unit	D	%Rec	ID: Lab Con Prep Typ Prep   %Rec. Limits		tal/NA
Analyte Gasoline Range Organics			1000	830.0		mg/Kg		83	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over C10-C28)			1000	925.1		mg/Kg		93	70 - 130		
0	LCS LC		l incide								
Surrogate 1-Chlorooctane	92 %Recovery	aiiiiei	Limits 70 - 130								
o-Terphenyl	92 95		70 - 130 70 - 130								
	50		10-100								
Lab Sample ID: LCSD 880-962 Matrix: Solid	8/3-A					Cli	ient Sa	mple ID: I	Lab Control S Prep Typ	-	
Analysis Batch: 9623									Prep	Batch	: <b>962</b> 8
Arrahar			Spike		LCSD		-	0/ F	%Rec.		RPD
Analyte	·		Added		Qualifier		D		Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10			1000	778.9		mg/Kg		78	70 - 130	6	20
Diesel Range Organics (Over C10-C28)			1000	929.8		mg/Kg		93	70 - 130	1	20
	LCSD LC	SD									
Surrogate	%Recovery Qu		Limits								
1-Chlorooctane	89		70 - 130								
			-								

o-Terphenyl

70 - 130

93

Lab Sample ID: 890-1441-A-1-D MSD

Lab Sample ID: 890-1441-A-1-E MS

# **QC Sample Results**

Limits

70 - 130 70 - 130

Spike

Added

999

999

Limits

70 - 130

70 - 130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Matrix: Solid

Surrogate 1-Chlorooctane

o-Terphenyl

Analyte

C10-C28)

Surrogate

o-Terphenyl

1-Chlorooctane

Matrix: Solid

Analyte

Chloride

Chloride

Analysis Batch: 9838

Matrix: Solid

(GRO)-C6-C10

Analysis Batch: 9623

Gasoline Range Organics

Diesel Range Organics (Over

Lab Sample ID: MB 880-9736/1-A

Lab Sample ID: LCS 880-9736/2-A

Analysis Batch: 9623

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

MSD MSD %Recovery Qualifier

Sample Sample

<49.9 U

<49.9 U

109

112

%Recovery

Method: 300.0 - Anions, Ion Chromatography

MS MS

Qualifier

MB MB Result Qualifier

<5.00 U

967

Result Qualifier

109

110

					SDG: 31402		2
ntinue	ed)						3
			Client S	Sample II	D: Matrix Spike D Prep Type: Prep Bat	Total/NA	4
							6
				Client	: Sample ID: Matr Prep Type: Prep Bat	Total/NA	8
MS	MS				%Rec.		9
Result	Qualifier	Unit	<u>D</u>	%Rec	Limits		
882.7		mg/Kg		86	70 - 130		10
1055		mg/Kg		103	70 - 130		11
							12
							13
							14
				Client	Sample ID: Metho Prep Type:		
	Unit		D	Prepared	Analyzed	Dil Fac	
	mg/Kg				10/19/21 16:36	1	
			Clier	nt Sample	e ID: Lab Control Prep Type:		

Matrix: Solid							Prep Ty	pe: Soluble
Analysis Batch: 9838								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	238.4		mg/Kg		95	90 - 110	

RL 5.00

Lab Sample ID: LCSD 880-9736/3-A Matrix: Solid Analysis Batch: 9838					Clie	nt Sam	nple ID:	Lab Contro Prep	l Sampl Type: S	
		Spike	LCSD	LCSD				%Rec.		RPD
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride		250	239.3		mg/Kg		96	90 - 110	0	20
Lab Sample ID: 890-1422-A-28-B MS Matrix: Solid							Client	Sample ID Prep	: Matrix Type: S	
Analysis Batch: 9838										
Sam	le Sample	Spike	MS	MS				%Rec.		
Analyte Res	ult Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		

251

1199

mg/Kg

93

90 - 110

Eurofins Xenco, Carlsbad

Page 183 of 286

Job ID: 890-1429-1

# QC Sample Results

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1429-1 SDG: 31402909.130

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1422-A-28-C MSD Matrix: Solid Analysis Batch: 9838				Client Sample ID: Matrix Spike Duplicate Prep Type: Soluble						4		
· · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD	5
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	967		251	1201		mg/Kg		93	90 - 110	0	20	
												7
												8
												9
												13

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1429-1 SDG: 31402909.130

# **GC VOA**

## Prep Batch: 9747

Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
PH02	Total/NA	Solid	5035		
PH02A	Total/NA	Solid	5035		5
PH02B	Total/NA	Solid	5035		
PH02C	Total/NA	Solid	5035		
Method Blank	Total/NA	Solid	5035		
Lab Control Sample	Total/NA	Solid	5035		
Lab Control Sample Dup	Total/NA	Solid	5035		
PH02	Total/NA	Solid	5035	<b>/</b>	8
PH02	Total/NA	Solid	5035		
					9
Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
PH02	Total/NA	Solid	8021B	9747	
PH02A	Total/NA	Solid	8021B	9747	
-	PH02 PH02A PH02B PH02C Method Blank Lab Control Sample Lab Control Sample Dup PH02 PH02 PH02 PH02 PH02	PH02     Total/NA       PH02A     Total/NA       PH02B     Total/NA       PH02C     Total/NA       Method Blank     Total/NA       Lab Control Sample     Total/NA       Lab Control Sample Dup     Total/NA       PH02     Total/NA       PH02     Total/NA       PH02     Total/NA       PH02     Total/NA       PH02     Total/NA       PH02     Total/NA	PH02       Total/NA       Solid         PH02A       Total/NA       Solid         PH02B       Total/NA       Solid         PH02C       Total/NA       Solid         Method Blank       Total/NA       Solid         Lab Control Sample       Total/NA       Solid         PH02       Total/NA       Solid         PH02       Total/NA       Solid         Lab Control Sample Dup       Total/NA       Solid         PH02       Total/NA       Solid         PH02       Total/NA       Solid         PH02       Total/NA       Solid         PH02       Total/NA       Solid	PH02Total/NASolid5035PH02ATotal/NASolid5035PH02BTotal/NASolid5035PH02CTotal/NASolid5035Method BlankTotal/NASolid5035Lab Control SampleTotal/NASolid5035Lab Control Sample DupTotal/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02Total/NASolid5035PH02BolidSolid5035PH03PH04Total/NASolid8021B	PH02       Total/NA       Solid       5035         PH02A       Total/NA       Solid       5035         PH02B       Total/NA       Solid       5035         PH02C       Total/NA       Solid       5035         PH02C       Total/NA       Solid       5035         Method Blank       Total/NA       Solid       5035         Lab Control Sample       Total/NA       Solid       5035         Lab Control Sample Dup       Total/NA       Solid       5035         PH02       Total/NA       Solid       5035         PH02       Total/NA       Solid       5035         Lab Control Sample Dup       Total/NA       Solid       5035         PH02       Total/NA       Solid       8021B       Prep Batch         PH02       Total/NA       Solid       8021B       9747

890-1429-2 PH02A Total/NA Solid 8021B	9747
890-1429-3 PH02B Total/NA Solid 8021B	9747
890-1429-4 PH02C Total/NA Solid 8021B	9747
MB 880-9747/5-A Method Blank Total/NA Solid 8021B	9747
LCS 880-9747/1-A Lab Control Sample Total/NA Solid 8021B	9747
LCSD 880-9747/2-A Lab Control Sample Dup Total/NA Solid 8021B	9747
890-1429-1 MS PH02 Total/NA Solid 8021B	9747
890-1429-1 MSD PH02 Total/NA Solid 8021B	9747 14

#### Prep Batch: 9911

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1429-1	PH02	Total/NA	Solid	5035	
890-1429-2	PH02A	Total/NA	Solid	5035	
890-1429-4	PH02C	Total/NA	Solid	5035	
MB 880-9911/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 10084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1429-1	PH02	Total/NA	Solid	8021B	9911
890-1429-2	PH02A	Total/NA	Solid	8021B	9911
890-1429-4	PH02C	Total/NA	Solid	8021B	9911
MB 880-9911/5-A	Method Blank	Total/NA	Solid	8021B	9911
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	8021B	9911
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9911
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	9911
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9911

#### Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1429-1	PH02	Total/NA	Solid	Total BTEX	
890-1429-2	PH02A	Total/NA	Solid	Total BTEX	
890-1429-3	PH02B	Total/NA	Solid	Total BTEX	
890-1429-4	PH02C	Total/NA	Solid	Total BTEX	

**Client Sample ID** 

PH02

PH02A

PH02B

PH02C

Method Blank

Lab Control Sample

Lab Control Sample Dup

Matrix Spike Duplicate

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Lab Sample ID

890-1429-1

890-1429-2

890-1429-3

890-1429-4

MB 880-9628/1-A

LCS 880-9628/2-A

LCSD 880-9628/3-A

890-1441-A-1-D MSD

### Analysis Batch: 9623

Matrix

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Solid

Prep Type

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Total/NA

Prep Batch

9628

9628

9628

9628

9628

9628

9628

9628

Job ID: 890-1429-1 SDG: 31402909.130

Method

8015B NM

890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	9628
Prep Batch: 9628					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1429-1	PH02	Total/NA	Solid	8015NM Prep	
890-1429-2	PH02A	Total/NA	Solid	8015NM Prep	
890-1429-3	PH02B	Total/NA	Solid	8015NM Prep	
890-1429-4	PH02C	Total/NA	Solid	8015NM Prep	
MB 880-9628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1441-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 10003

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1429-1	PH02	Total/NA	Solid	8015 NM	
890-1429-2	PH02A	Total/NA	Solid	8015 NM	
890-1429-3	PH02B	Total/NA	Solid	8015 NM	
890-1429-4	PH02C	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 9736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1429-1	PH02	Soluble	Solid	DI Leach	
890-1429-2	PH02A	Soluble	Solid	DI Leach	
890-1429-3	PH02B	Soluble	Solid	DI Leach	
890-1429-4	PH02C	Soluble	Solid	DI Leach	
MB 880-9736/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9736/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9736/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1422-A-28-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1422-A-28-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 9838

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1429-1	PH02	Soluble	Solid	300.0	9736
890-1429-2	PH02A	Soluble	Solid	300.0	9736
890-1429-3	PH02B	Soluble	Solid	300.0	9736
890-1429-4	PH02C	Soluble	Solid	300.0	9736
MB 880-9736/1-A	Method Blank	Soluble	Solid	300.0	9736
LCS 880-9736/2-A	Lab Control Sample	Soluble	Solid	300.0	9736

# **QC** Association Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1429-1 SDG: 31402909.130

# HPLC/IC (Continued)

## Analysis Batch: 9838 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 880-9736/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9736
890-1422-A-28-B MS	Matrix Spike	Soluble	Solid	300.0	9736
890-1422-A-28-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9736

9

Job ID: 890-1429-1 SDG: 31402909.130

## Lab Sample ID: 890-1429-1 Matrix: Solid

Lab Sample ID: 890-1429-2

Lab Sample ID: 890-1429-3

Matrix: Solid

Matrix: Solid

Client Sample ID: PH02 Date Collected: 10/08/21 12:08 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 19:58	MR	XEN MID
Total/NA	Prep	5035			4.98 g	5 mL	9747	10/18/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/19/21 14:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		1			9838	10/19/21 19:08	CH	XEN MID

#### **Client Sample ID: PH02A**

Date Collected: 10/08/21 12:12 Date Received: 10/14/21 12:12

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 20:18	MR	XEN MID
Total/NA	Prep	5035			5.00 g	5 mL	9747	10/18/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		1			9838	10/19/21 19:14	СН	XEN MID

#### Client Sample ID: PH02B Date Collected: 10/08/21 12:15 Date Received: 10/14/21 12:12

	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	9747	10/18/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/19/21 15:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 16:27	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		1			9838	10/19/21 19:19	СН	XEN MID

Job ID: 890-1429-1 SDG: 31402909.130

# Lab Sample ID: 890-1429-4 Matrix: Solid

Client Sample ID: PH02C Date Collected: 10/08/21 12:18 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		200	5 mL	5 mL	10084	10/21/21 20:38	MR	XEN MID
Total/NA	Prep	5035			4.97 g	5 mL	9747	10/18/21 14:01	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/19/21 15:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 16:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9736	10/18/21 13:58	CA	XEN MID
Soluble	Analysis	300.0		1			9838	10/19/21 19:25	CH	XEN MID

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

**Released to Imaging: 4/27/2022 11:07:44 AM** 

10

# Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1429-1 SDG: 31402909.130

#### Laboratory: Eurofins Xenco, Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date	
xas	N	ELAP	T104704400-21-22	06-30-22	
The following analytes	are included in this report by	it the laboratory is not certif	ied by the governing authority. This list ma	w include analytes for w	
the agency does not o	fer certification.	·			
• ,		Matrix	Analyte		
the agency does not o	fer certification.	·			

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1429-1 SDG: 31402909.130

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
SW846 = '	<ul> <li>"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, Mai</li> <li>"Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Ed</li> <li>TestAmerica Laboratories, Standard Operating Procedure</li> </ul>		
Laboratory Re	eferences: = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)70	4-5440	
	,, ,,,,,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,		

#### Protocol References:

#### Laboratory References:

Page 191 of 286

#### Job ID: 890-1429-1 SDG: 31402909.130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1429-1	PH02	Solid	10/08/21 12:08	10/14/21 12:12	1	4
890-1429-2	PH02A	Solid	10/08/21 12:12	10/14/21 12:12	2	
890-1429-3	PH02B	Solid	10/08/21 12:15	10/14/21 12:12	3	5
890-1429-4	PH02C	Solid	10/08/21 12:18	10/14/21 12:12	4	J
						8
						9
						3
						_
						12
						44
						13

Atlanta GA( Alanta, GA( Alant	Atlanta, CA (770) 449-89 Street Stree	Avanta, CA (770) 449-8800	Auan, DA, (770), 445 800       www.xetro.com     Page 1 of 1       Work Order Comments       Bit R: if afferen       Address: IP       Bit R: if afferen       Address: IP       Bit R: if afferen       Address: IP       Address: IP       Bit R: if afferen       Address: IP       Address: IP <t< th=""><th>of Xenco. A prinimum charge of \$75.00 will b Relinquished by: Signature)</th><th>of Xenco. A minimum charge of \$75.00 will b</th><th>Notice: Signature of this document and reline</th><th>Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed</th><th></th><th></th><th></th><th></th><th></th><th>PH02C</th><th>PH02B</th><th>PH02A</th><th>PH02</th><th>Sample Identification</th><th></th><th>Cooler Custody Seals: Yes No</th><th>Received Intact:</th><th>Temperature (°C):</th><th>CEIPT T</th><th>Sampler's Name:</th><th></th><th>er:</th><th>Project Name: Azor</th><th>Phone: (817) 683-2503</th><th>e ZIP:</th><th>Address: 3300 North A Street</th><th></th><th>Project Manager: Kalei Jennings</th><th></th></t<>	of Xenco. A prinimum charge of \$75.00 will b Relinquished by: Signature)	of Xenco. A minimum charge of \$75.00 will b	Notice: Signature of this document and reline	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						PH02C	PH02B	PH02A	PH02	Sample Identification		Cooler Custody Seals: Yes No	Received Intact:	Temperature (°C):	CEIPT T	Sampler's Name:		er:	Project Name: Azor	Phone: (817) 683-2503	e ZIP:	Address: 3300 North A Street		Project Manager: Kalei Jennings	
Alianta, GA( Bill to: (if different) Company Name: Address: Address: City, State ZIP: Email: <u>kalei, jennings@wsp.com</u> Turn Around 0 Routine: <u>A</u> Email: <u>kalei, jennings@wsp.com</u> Routine: <u>A</u> Turn Around 0 Routine: <u>A</u> Routine: <u>A</u> Turn Around 0 Routine: <u>A</u> Routine: <u>A</u> Turn Around 0 Routine: <u>A</u> Routine: <u>A</u> Ro	Atlanta, GA (770) 449-89 Atlanta, GA (770) 449-89 Company Name: Company Name: City, State ZIP. Email: kalei_jennings@wsp.com Thermometer ID Thermometer	Auanta, GA (770) 440-8800	Informature	()10	)	quishment of sa ost of samples ; e applied to eac	6020: to be analy						1	_		L		AIR	N	No	2.2	-	atima Smit	Lea County	1402909.13	es Fed Con	ω	9705	Street			
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Chain of Custody

13

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

Page 193 of 286

Work Order No:

# Received by OCD: 3/18/2022 1:35:11 PM

Charlo of Custofy Record     Image: Part of Custofy Record <thimage: custofy="" of="" part="" record<="" th="">     Image: Part of</thimage:>		<b></b>	Re	RE		Ē	Ď	<u> </u>	me att	-	1	1		1	1	<u>q</u>	P	P		S		2 7	g	<u>₹</u>	न क	City	1. A	<u>ت</u> و	SC	0	]⊒0≓	m
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12 13

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1429 List Number: 1

Creator: Clifton, Cloe

<6mm (1/4").

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	

Job Number: 890-1429-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

14

Eurofins Xenco, Carlsbad Released to Imaging: 4/27/2022 11:07:44 AM

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1429 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Job Number: 890-1429-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland List Creation: 10/15/21 12:19 PM

14

Received by OCD: 3/18/2022 1:35:11 PM

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

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

# Laboratory Job ID: 890-1430-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

# For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/21/2021 4:17:34 PM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

Visit us at: www.eurofinsus.com/Env

Expert

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Review your project results through

Total Access

**Have a Question?** 

Ask-

The

Released to Imaging: 4/27/2022 11:07:44 AM

Laboratory Job ID: 890-1430-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	14
Lab Chronicle	16
Certification Summary	18
Method Summary	19
Sample Summary	20
Chain of Custody	21
Receipt Checklists	23

	Definitions/Glossary	
Client: WSP US		2
-	zores Fed Com 4H SDG: 31402909.130	
Qualifiers		3
GC VOA		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	5
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
U	Indicates the analyte was analyzed for but not detected.	

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

# Glossary

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

5

#### Job ID: 890-1430-1 SDG: 31402909.130

#### Job ID: 890-1430-1

Client: WSP USA Inc.

#### Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

#### Narrative

Job Narrative 890-1430-1

#### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9748 and analytical batch 880-9846 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH04B (890-1430-3), PH04C (890-1430-4) and (890-1428-A-1-E). Evidence of matrix interferences is not obvious.

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

#### GC Semi VOA

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

#### HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9752 and analytical batch 880-9997 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

RL

0.00199

0.00199

0.00199

0.00398

0.00199

0.00398

Limits

70 ₋ 130 70 ₋ 130

RL

RL

49.9

RL

49.9

49.9

49.9

0.00398

Unit

mg/Kg

mg/Kg

mg/Kg

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1

Prepared

10/18/21 14:06

10/18/21 14:06

10/18/21 14:06

10/18/21 14:06

10/18/21 14:06

10/18/21 14:06

Prepared

10/18/21 14:06

10/18/21 14:06

Job ID: 890-1430-1 SDG: 31402909.130

# Client Sample ID: PH04

Method: 8021B - Volatile Organic Compounds (GC)

Method: Total BTEX - Total BTEX Calculation

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

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

Result Qualifier

Qualifier

Qualifier

**Result Qualifier** 

Result Qualifier

<0.00199 U

0.0189

0.0117

0.0446

0.0195

0.0641

124

95

Result

0.0947

2200

67.3

1850

279

%Recovery

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 13:58 Date Received: 10/14/21 12:12

Sample Depth: 1

Analyte

Benzene

Toluene

o-Xylene

Surrogate

Analyte

Analyte

Analyte

(GRO)-C6-C10

C10-C28)

C28-C36)

**Total TPH** 

Total BTEX

Ethylbenzene

**Xylenes**, Total

m-Xylene & p-Xylene

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

**Gasoline Range Organics** 

**Oll Range Organics (Over** 

**Diesel Range Organics (Over** 

Client: WSP USA Inc.

Lab Sample ID: 890-1430-1

Analyzed

10/20/21 02:39

10/20/21 02:39

10/20/21 02:39

10/20/21 02:39

10/20/21 02:39

10/20/21 02:39

Analyzed

10/20/21 02:39

10/20/21 02:39

Matrix: Solid

Dil Fac

1

1

1

1

1

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

Prepared	Analyzed	Dil Fac	
	10/21/21 17:04	1	
Prepared	Analyzed	Dil Fac	1
	10/20/21 13:58	1	
Prepared	Analyzed	Dil Fac	
0/18/21 08:11	10/18/21 17:09	1	
0/18/21 08:11	10/18/21 17:09	1	
0/18/21 08:11	10/18/21 17:09	1	

Lab Sample ID: 890-1430-2

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed
1-Chlorooctane	97		70 - 130		10/18/21 08:11	10/18/21 17:09
o-Terphenyl	101		70 _ 130		10/18/21 08:11	10/18/21 17:09
Method: 300.0 - Anions, Ion Chrom	atography -	Soluble				
Analyte	Result	Qualifier	RL	Unit D	Prepared	Analyzed
Chloride	469	F1	4.95	mg/Kg		10/20/21 14:35

#### **Client Sample ID: PH04A**

Date Collected: 10/08/21 14:00

Date Received: 10/14/21 12:12

Sample Depth: 2

Method: 8021B - Volatile Orga	nic Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00199	U	0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:59	1
Toluene	0.0190		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:59	1
Ethylbenzene	0.0201		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:59	1
m-Xylene & p-Xylene	0.107		0.00398	mg/Kg		10/18/21 14:06	10/20/21 02:59	1
o-Xylene	0.0234		0.00199	mg/Kg		10/18/21 14:06	10/20/21 02:59	1
Xylenes, Total	0.130		0.00398	mg/Kg		10/18/21 14:06	10/20/21 02:59	1

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

# **Client Sample Results**

Job ID: 890-1430-1 SDG: 31402909.130

# **Client Sample ID: PH04A**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 14:00

Date Received: 10/14/21 12:12 Sample Depth: 2

Client: WSP USA Inc.

Surromata	0/ <b>n</b>	000-14	1 inside			D	A	n:: -
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	107		70 - 130			10/18/21 14:06	10/20/21 02:59	
1,4-Difluorobenzene (Surr)	98		70 - 130			10/18/21 14:06	10/20/21 02:59	
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	0.170		0.00398	mg/Kg			10/21/21 17:04	
Method: 8015 NM - Diesel Range (	Organics (DR	0) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	2910		49.8	mg/Kg			10/20/21 13:58	
Method: 8015B NM - Diesel Range	e Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	119		49.8	mg/Kg		10/18/21 08:11	10/18/21 17:30	
Diesel Range Organics (Over C10-C28)	2440		49.8	mg/Kg		10/18/21 08:11	10/18/21 17:30	
Oll Range Organics (Over C28-C36)	348		49.8	mg/Kg		10/18/21 08:11	10/18/21 17:30	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	109		70 - 130			10/18/21 08:11	10/18/21 17:30	
o-Terphenyl	106		70 - 130			10/18/21 08:11	10/18/21 17:30	
Method: 300.0 - Anions, Ion Chror	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	1200		5.03	mg/Kg			10/20/21 14:57	
lient Sample ID: PH04B						Lab San	nple ID: 890-	1430-3
						Lab San	nple ID: 890- Matri	1430-3 x: Solic
ate Collected: 10/08/21 14:01						Lab San	-	
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12						Lab San	-	
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3	Compounds	GC)				Lab San	-	
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic			RI	Unit	D		Matri	x: Solic
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte		Qualifier		<u>Unit</u>	<u>D</u>	Lab San	-	x: Solid
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene	Result <0.00199	Qualifier		mg/Kg	D	Prepared	Matri	x: Solid
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene	Result <0.00199 0.0369	Qualifier	0.00199	mg/Kg mg/Kg	D	Prepared 10/18/21 14:06	Matri Analyzed 10/20/21 03:20	x: Solid
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene	Result <0.00199	Qualifier	0.00199	mg/Kg	<u>D</u>	Prepared 10/18/21 14:06 10/18/21 14:06	Matri Analyzed 10/20/21 03:20 10/20/21 03:20	x: Solie
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result <0.00199 0.0369 0.0767 0.590	Qualifier	0.00199 0.00199 0.00199	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	Prepared 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06	Matri Analyzed 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20	x: Soli
ate Collected: 10/08/21 14:01 ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result <0.00199 0.0369 0.0767	Qualifier	0.00199 0.00199 0.00199 0.00398	mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06	Matri Analyzed 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20	x: Solic
Ethylbenzene m-Xylene & p-Xylene	Result <0.00199 0.0369 0.0767 0.590 0.376	Qualifier	0.00199 0.00199 0.00199 0.00398 0.00398	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	Prepared 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06 10/18/21 14:06	Matri Analyzed 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20 10/20/21 03:20	

Method: Total BTEX - Total BTEX C	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	1.08		0.00398	mg/Kg			10/21/21 17:04	1

70 - 130

99

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10/20/21 03:20

10/18/21 14:06

Lab Sample ID: 890-1430-2 Matrix: Solid

5

1,4-Difluorobenzene (Surr)

1

Dil Fac

Dil Fac

Dil Fac

Matrix: Solid

1

1

## **Client Sample Results**

RL

RL

49.9

49.9

49.9

RL

5.03

Limits

70 - 130

70 - 130

49.9

Unit

Unit

mg/Kg

mg/Kg

mg/Kg

Unit

mg/Kg

mg/Kg

D

D

D

Prepared

Prepared

10/18/21 08:11

10/18/21 08:11

10/18/21 08:11

Prepared

10/18/21 08:11

10/18/21 08:11

Prepared

Job ID: 890-1430-1 SDG: 31402909.130

# Client Sample ID: PH04B

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 14:01 Date Received: 10/14/21 12:12

Gasoline Range Organics

**Oll Range Organics (Over** 

**Diesel Range Organics (Over** 

Sample Depth: 3

Analyte

Analyte

C10-C28)

C28-C36)

Surrogate

o-Terphenyl

1-Chlorooctane

(GRO)-C6-C10

**Total TPH** 

Client: WSP USA Inc.

Lab Sample ID	: 890-1430-3
-	Matrix: Solid

Analyzed

10/20/21 13:58

Analyzed

10/18/21 18:12

10/18/21 18:12

10/18/21 18:12

Analyzed

10/18/21 18:12

10/18/21 18:12

Analyzed

10/20/21 15:04

Lab Sample ID: 890-1430-4

	Ō
1	6
1	3
Dil Fac 1	
1	

# Method: 300.0 - Anions, Ion Chromatography - SolubleAnalyteResultChloride732

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

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

Result Qualifier

Result Qualifier

Qualifier

3260

392

2530

338

112

102

%Recovery

## Client Sample ID: PH04C

Date Collected: 10/08/21 14:03

Date Received: 10/14/21 12:12

Sample Depth: 4

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
Ethylbenzene	0.0114		0.00200	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
m-Xylene & p-Xylene	0.0600		0.00400	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
o-Xylene	0.0351		0.00200	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
Xylenes, Total	0.0951		0.00400	mg/Kg		10/18/21 14:06	10/20/21 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	191	S1+	70 - 130			10/18/21 14:06	10/20/21 03:40	1
1,4-Difluorobenzene (Surr)	100		70 - 130			10/18/21 14:06	10/20/21 03:40	1
Method: Total BTEX - Total BTI	EX Calculation	Qualifier		Unit	П			Dil Ea
Tethod: Total BTEX - Total BT						10,10,21,11.00		
	EX Calculation	Qualifier	RL	<mark>Unit</mark> mg/Kg	<u>D</u>	Prepared	Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX	EX Calculation Result 0.107		RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte	EX Calculation Result 0.107 ge Organics (DR		RL		<u>D</u>		Analyzed	Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang	EX Calculation Result 0.107 ge Organics (DR	O) (GC)	RL	mg/Kg		Prepared	Analyzed 10/21/21 17:04	1
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH	EX Calculation Result 0.107 ge Organics (DR Result 4550	O) (GC) Qualifier	RL	mg/Kg Unit		Prepared	Analyzed 10/21/21 17:04 Analyzed	1 Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte	EX Calculation Result 0.107 ge Organics (DR Result 4550 nge Organics (DI	O) (GC) Qualifier	RL	mg/Kg Unit		Prepared	Analyzed 10/21/21 17:04 Analyzed	1 Dil Fac
Method: Total BTEX - Total BTI Analyte Total BTEX Method: 8015 NM - Diesel Rang Analyte Total TPH Method: 8015B NM - Diesel Ran	EX Calculation Result 0.107 ge Organics (DR Result 4550 nge Organics (DI	O) (GC) Qualifier RO) (GC)	RL           0.00400           RL           49.8	mg/Kg Unit mg/Kg	<u>D</u>	Prepared Prepared	Analyzed 10/21/21 17:04 Analyzed 10/20/21 13:58	Dil Fac

Matrix: Solid

# **Client Sample Results**

Job ID: 890-1430-1
SDG: 31402909.130

Lab Sample ID: 890-1430-4

### Client Sample ID: PH04C Date Collected: 10/08/21 14:03

Project/Site: Azores Fed Com 4H

Date Received: 10/14/21 12:12

## Sample Depth: 4

Client: WSP USA Inc.

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	529		49.8	mg/Kg		10/18/21 08:11	10/18/21 18:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130			10/18/21 08:11	10/18/21 18:33	1
o-Terphenyl	110		70 - 130			10/18/21 08:11	10/18/21 18:33	1
Method: 300.0 - Anions, Ion C	Chromatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.0		5.01	mg/Kg			10/20/21 15:11	1

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

Matrix: Solid

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Sample ID	Client Sample ID	(70-130)	(70-130)	
-A-1-C MS	Matrix Spike	98	107	
8-A-1-D MSD	Matrix Spike Duplicate	107	105	
0-1	PH04	124	95	
30-2	PH04A	107	98	
-30-3	PH04B	249 S1+	99	
30-4	PH04C	191 S1+	100	
0-9748/1-A	Lab Control Sample	103	110	
80-9748/2-A	Lab Control Sample Dup	95	108	
-9747/5-A	Method Blank	109	93	
80-9748/5-A	Method Blank	114	104	
urrogate Legend				

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

				Percent S
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1430-1	PH04	97	101	
890-1430-2	PH04A	109	106	
890-1430-3	PH04B	112	102	
890-1430-4	PH04C	121	110	
890-1441-A-1-D MSD	Matrix Spike Duplicate	109	110	
890-1441-A-1-E MS	Matrix Spike	109	112	
LCS 880-9628/2-A	Lab Control Sample	92	95	
LCSD 880-9628/3-A	Lab Control Sample Dup	89	93	
MB 880-9628/1-A	Method Blank	112	130	

1CO = 1-Chlorooctane OTPH = o-Terphenyl Prep Type: Total/NA

10/21/2021

# **QC Sample Results**

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

 Lab Sample ID: MB 880-9747/5-A									Client Sa	mple ID: Me	thod	Blank
Matrix: Solid										Prep Typ	e: To	otal/NA
Analysis Batch: 9846										Prep E	Batch	n: 9747
	M	B MB										
Analyte	Resu	lt Qualifier	RL	-	Unit		D	P	repared	Analyzed		Dil Fac
Benzene	<0.0020	0 U	0.00200	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
Toluene	<0.0020	0 U	0.00200	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
Ethylbenzene	<0.0020	0 U	0.00200	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
m-Xylene & p-Xylene	<0.0040	0 U	0.00400	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
o-Xylene	<0.0020	0 U	0.00200	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
Xylenes, Total	<0.0040	0 U	0.00400	)	mg/K	g		10/1	8/21 14:01	10/19/21 14:	25	1
	Μ	B MB										
Surrogate	%Recove	ry Qualifier	Limits	_				P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	10	9	70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
1,4-Difluorobenzene (Surr)	ç	93	70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
_ Lab Sample ID: MB 880-9748/5-A	L .								Client Sa	mple ID: Me	thod	Blank
Matrix: Solid										Prep Typ	e: To	otal/NA
Analysis Batch: 9846												n: 9748
	м	в мв										
Analyte	Resu	It Qualifier	RL	_	Unit		D	Р	repared	Analyzed		Dil Fac
Benzene	<0.0020	0 U	0.00200	)	mg/K	g	_	10/1	8/21 14:06	10/20/21 01:	16	1
Toluene	<0.0020	0 U	0.00200	)	mg/K	-		10/1	8/21 14:06	10/20/21 01:	16	1
Ethylbenzene	<0.0020	0 U	0.00200	)	mg/K	-		10/1	8/21 14:06	10/20/21 01:	16	1
m-Xylene & p-Xylene	<0.0040		0.00400		mg/K				8/21 14:06	10/20/21 01:		1
o-Xylene	<0.0020		0.00200		mg/K	-			8/21 14:06	10/20/21 01:		1
Xylenes, Total	< 0.0040		0.00400		mg/K	-			8/21 14:06	10/20/21 01:		1
	0.0010		0.00100			9			0,211,100	10/20/21 011		·
	M	B MB										
Surrogate	%Recove	<u> </u>		_					repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	11		70 - 130						8/21 14:06	10/20/21 01:		1
1,4-Difluorobenzene (Surr)	10	)4	70 - 130					10/1	8/21 14:06	10/20/21 01:	16	1
 Lab Sample ID: LCS 880-9748/1-/	Α						С	lient	Sample	D: Lab Cont	trol S	ample
Matrix: Solid										Prep Typ	e: To	otal/NA
Analysis Batch: 9846												n: 9748
-			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1040		mg/Kg			104	70 - 130		
Toluene			0.100	0.08958		mg/Kg			90	70 - 130		
Ethylbenzene			0.100	0.08535		mg/Kg			85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1765		mg/Kg			88	70 - 130		
o-Xylene			0.100	0.09487		mg/Kg			95	70 - 130		
Surrogata	LCS LO %Recovery Q		Limito									
Surrogate 4-Bromofluorobenzene (Surr)	103	Jaille	<u>Limits</u> 70 - 130									
4-Bromonuorobenzene (Surr) 1,4-Difluorobenzene (Surr)	103 110		70 - 130 70 - 130									
	110		70 - 730									
Lab Sample ID: LCSD 880-9748/2	2-A					CI	ient	Sam	ple ID: La	ab Control S		
Matrix: Solid										Prep Typ		
Analysis Batch: 9846											Batch	n: 9748
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09387					94	70 - 130	10	35

5

# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1430-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-9	748/2-A					Clier	nt Sam	ple ID: I	Lab Contro	I Sampl	e Dup
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 9846									Pre	p Batch	: 9748
			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Toluene			0.100	0.08336		mg/Kg		83	70 - 130	7	35
Ethylbenzene			0.100	0.07798		mg/Kg		78	70 - 130	9	35
m-Xylene & p-Xylene			0.200	0.1605		mg/Kg		80	70 _ 130	9	3
o-Xylene			0.100	0.08265		mg/Kg		83	70 - 130	14	3
	1.050	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)		Quaimer	70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130 70 - 130								
	100		10 - 100								
Lab Sample ID: 890-1428-A	-1-C MS							Client	Sample ID	: Matrix	Spike
Matrix: Solid										ype: To	
Analysis Batch: 9846										p Batch	
· · · · · <b>,</b> · · · · · · · · · · · · · · · · · · ·	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0165		0.0996	0.09876		mg/Kg		83	70 - 130		
Toluene	0.107	F1	0.0996	0.08737	F1	mg/Kg		-20	70 - 130		
Ethylbenzene	0.181	F1	0.0996	0.08507	F1	mg/Kg		-96	70 - 130		
m-Xylene & p-Xylene	0.0164		0.199	0.1725		mg/Kg		78	70 - 130		
o-Xylene	2.38	E	0.0996	0.08738	4	mg/Kg		-2301	70 - 130		
	MS										
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 890-1428-A						CI	iont Se	ample IF	): Matrix Sp	siko Dun	licato
Matrix: Solid										ype: To	
Analysis Batch: 9846	Sample	Sample	Spike	мер	MSD				%Rec.	p Batch	. 9740 RPD
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Benzene	0.0165	waannen	0.100	0.08998		mg/Kg		73	70 - 130	9	35
Toluene	0.107	F1	0.100	0.08531	F1	mg/Kg		-22	70 - 130 70 - 130	9 2	35
Ethylbenzene	0.181		0.100	0.08531		mg/Kg		-22 -96	70 - 130 70 - 130	2	35
m-Xylene & p-Xylene	0.181	• •	0.100	0.08445				-90	70 - 130 70 - 130	2	35
m-xylene & p-xylene o-Xylene	2.38	F	0.200	0.1755	4	mg/Kg mg/Kg		80 -2291	70 - 130 70 - 130	2	3:
U-Ayidile	2.30	-	0.100	0.00002	4	myrxy		-2291	10 - 130	2	3:
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
ourrogate		quanner	Emito								

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

105

Lab Sample ID: MB 880-9628/1-A Matrix: Solid Analysis Batch: 9623						Client Sa	mple ID: Metho Prep Type: ⁻ Prep Bato	Total/NA
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		10/18/21 08:11	10/18/21 11:23	1
(GRO)-C6-C10								

70 - 130

Eurofins Xenco, Carlsbad

1,4-Difluorobenzene (Surr)

#### Job ID: 890-1430-1 SDG: 31402909.130

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

	Α							Client	Sample ID:	Method	Blank
latrix: Solid									Prep 1	Гуре: То	tal/NA
nalysis Batch: 9623									Pre	p Batch	: <b>9628</b>
	м	B MB									
nalyte	Resu	lt Qualifier	RL		Unit		D	Prepared	Analyz	zed	Dil Fac
iesel Range Organics (Over :10-C28)	<50.	.0 U	50.0		mg/K	g	_	10/18/21 08:	10/18/21	11:23	1
II Range Organics (Over C28-C36)		.0 U	50.0		mg/K	g		10/18/21 08:	10/18/21	11:23	1
		B MB	Limite					Dramarad	Amelia		
urrogate Chlorooctane		ry Qualifier	<u>Limits</u> 70 - 130					Prepared 10/18/21 08:	Analyz 11 10/18/21		Dil Fac
	13		70 - 130 70 - 130					10/18/21 08:			1
Terphenyl	73	0	70 - 730					10/10/21 00.	11 10/10/21	11.23	1
ab Sample ID: LCS 880-9628/2	-A						С	lient Samp	e ID: Lab C	ontrol S	ample
latrix: Solid									Prep 1	Гуре: То	tal/NA
nalysis Batch: 9623									Pre	p Batch	: <b>962</b> 8
			Spike	LCS	LCS				%Rec.		
nalyte			Added	Result	Qualifier	Unit		D %Rec	Limits		
asoline Range Organics			1000	830.0		mg/Kg		83	70 - 130		
GRO)-C6-C10			1005	oc - ·							
esel Range Organics (Over			1000	925.1		mg/Kg		93	70 - 130		
10-C28)											
	LCS LC	:s									
ırrogate	%Recovery Q	Jalifier	Limits								
Chlorooctane	92		70 - 130								
Tombonid	95		70 - 130								
Terprienyi			10-100								
	'3-∆		10-100			Cli	ent	Sample ID	Lab Contro	ol Samol	le Dun
^{.Terphenyl} ab Sample ID: LCSD 880-9628/ latrix: Solid	' <b>3-A</b>		101100			Cli	ent	Sample ID:	Lab Contro		-
ab Sample ID: LCSD 880-9628/ latrix: Solid	/3-A		/0 - /00			Cli	ent	Sample ID:	Prep 1	Гуре: То	tal/NA
ab Sample ID: LCSD 880-9628/ latrix: Solid	/3-A			LCSD	LCSD	Cli	ent	Sample ID:	Prep Pre		tal/NA : 9628
ab Sample ID: LCSD 880-9628/	/3-A		Spike Added		LCSD Qualifier	Cli Unit	ent	Sample ID: D %Rec	Prep 1	Гуре: То	tal/NA
ab Sample ID: LCSD 880-9628/ latrix: Solid malysis Batch: 9623 nalyte asoline Range Organics	/ <b>3-A</b>		Spike				ent	-	Prep 1 Pre %Rec.	Type: To p Batch	tal/NA : 9628 RPD
ab Sample ID: LCSD 880-9628/ latrix: Solid malysis Batch: 9623 nalyte asoline Range Organics SRO)-C6-C10 iesel Range Organics (Over	/ <b>3-A</b>		Spike Added	Result		Unit	ent	D %Rec	Prep 7 Pre %Rec. Limits	Type: To p Batch 	tal/NA : 9628 RPD Limit
ab Sample ID: LCSD 880-9628/ latrix: Solid nalysis Batch: 9623 nalyte asoline Range Organics SRO)-C6-C10 esel Range Organics (Over	/3-A 		Spike Added 1000	Result 778.9		Unit mg/Kg	ent	D %Rec 78	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch 6	tal/NA : 9628 RPD Limit 20
ab Sample ID: LCSD 880-9628/ latrix: Solid nalysis Batch: 9623 nalyte asoline Range Organics SRO)-C6-C10 esel Range Organics (Over 10-C28)			Spike Added 1000	Result 778.9		Unit mg/Kg	ent	D %Rec 78	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch 6	tal/NA : 9628 RPD Limit 20
ab Sample ID: LCSD 880-9628/ latrix: Solid malysis Batch: 9623 malyte asoline Range Organics SRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate	LCSD LC		<b>Spike</b> Added 1000 1000	Result 778.9		Unit mg/Kg	ent	D %Rec 78	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch 6	tal/NA : 9628 RPD Limit 20
ab Sample ID: LCSD 880-9628/ latrix: Solid nalysis Batch: 9623 nalyte asoline Range Organics iRO)-C6-C10 esel Range Organics (Over 10-C28) urrogate Chlorooctane	LCSD LC %Recovery Q		Spike Added 1000 1000 Limits	Result 778.9		Unit mg/Kg	ent	D %Rec 78	Prep 7 Pre %Rec. Limits 70 - 130	Type: To p Batch 6	tal/NA : 9628 RPD Limit 20
ab Sample ID: LCSD 880-9628/ latrix: Solid malysis Batch: 9623 malyte asoline Range Organics SRO)-C6-C10 esel Range Organics (Over 10-C28) urrogate Chlorooctane Terphenyl	LCSD LC %Recovery Qu 89 93		Spike           Added           1000           1000           Limits           70 - 130	Result 778.9		Unit mg/Kg mg/Kg		D %Rec 78 93	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130	Type: To p Batch <u>RPD</u> 6 1	tal/NA : 9628 RPD Limit 20 20
ab Sample ID: LCSD 880-9628/ Iatrix: Solid analysis Batch: 9623 malyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) urrogate -Chlorooctane -Terphenyl ab Sample ID: 890-1441-A-1-D	LCSD LC %Recovery Qu 89 93		Spike           Added           1000           1000           Limits           70 - 130	Result 778.9		Unit mg/Kg mg/Kg		D %Rec 78 93	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 D: Matrix Sj	Type: To p Batch <u>RPD</u> 6 1 pike Dup	tal/NA : 9628 RPD Limit 20 20 Dicate
ab Sample ID: LCSD 880-9628/ latrix: Solid nalysis Batch: 9623 nalyte asoline Range Organics iRO)-C6-C10 esel Range Organics (Over 10-C28) urrogate Chlorooctane Terphenyl	LCSD LC %Recovery Qu 89 93		Spike           Added           1000           1000           Limits           70 - 130	Result 778.9		Unit mg/Kg mg/Kg		D %Rec 78 93	Prep 7 Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	Type: To p Batch <u>RPD</u> 6 1	tal/NA : 9628 RPD Limit 20 20 20

Page 12 of 24

Limits 70 - 130

70 - 130

%Recovery Qualifier

109

110

Surrogate

o-Terphenyl

1-Chlorooctane

# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1430-1 SDG: 31402909.130

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

Matrix: Solid									Client	Sample ID	: Matrix Type: To	
Analysis Batch: 9623											p Batcl	
Analysis Datch. 9025	Sampla	Sample	Spike	Ме	мѕ					%Rec.	p Batci	1. 902
Analyta	-	Qualifier				Unit		<b>.</b> .	/ Bee			
Analyte			Added		Qualifier	Unit	[		%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	882.7		mg/Kg			86	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1055		mg/Kg			103	70 - 130		
	мs	MS										
Surrogate %F	Recovery	Qualifier	Limits									
1-Chlorooctane	109		70 - 130	-								
o-Terphenyl	112		70 - 130									
lethod: 300.0 - Anions, Ion Ch Lab Sample ID: MB 880-9752/1-A Matrix: Solid Analysis Batch: 9997	iromat	ography						С	lient S	Sample ID: Prep	Method Type: S	
		MB MB										
Analyte	R	esult Qualifier		RL	Unit		D	Prep	pared	Analyz	ed	Dil Fa
Chloride		<5.00 U		5.00	mg/K	g				10/20/21	14:14	
Lab Sample ID: LCS 880-9752/2-A							Clie	nt S	ample	D: Lab C	ontrol S	Sampl
Matrix: Solid											Type: S	
			Spike	LCS	LCS					%Rec.		
Analysis Batch: 9997			Spike Added			Unit	ſ	) 9	%Rec	%Rec.		
Analysis Batch: 9997 Analyte			Spike Added 250		LCS Qualifier	Unit mg/Kg	[	<u> </u>	% <b>Rec</b> 93	-		
Analysis Batch: 9997 Analyte Chloride			Added	Result		mg/Kg			93	%Rec. Limits 90 - 110		
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A			Added	Result		mg/Kg			93	%Rec. Limits 90 - 110		
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid			Added	Result		mg/Kg			93	%Rec. Limits 90 - 110		
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid			Added 250	Result 231.7	Qualifier	mg/Kg			93	%Rec. Limits 90 - 110 Lab Contro Prep		le Du Solub
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997			Added 250 Spike	Result 231.7 LCSD	Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: I	%Rec. Limits 90 - 110 Lab Contro Prep %Rec.	J Samp Type: S	le Du Solubi RP
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte			Added 250 Spike Added	Result 231.7 LCSD Result	Qualifier	mg/Kg Cli		ımpl	93 le ID: l	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits	ol Samp Type: S 	le Du Solub RP Lim
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte			Added 250 Spike	Result 231.7 LCSD	Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: I	%Rec. Limits 90 - 110 Lab Contro Prep %Rec.	J Samp Type: S	le Du Solubi RP Lim
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride			Added 250 Spike Added	Result 231.7 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: l	%Rec.           Limits           90 - 110           Lab Contro           Prep           %Rec.           Limits           90 - 110	I Samp Type: S  1	ole Du Solubi RP Lim 2
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS			Added 250 Spike Added	Result 231.7 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: l	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sat	ol Samp Type: S <u>RPD</u> 1 mple ID	lle Du Solubi RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid			Added 250 Spike Added	Result 231.7 LCSD Result	Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: l	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sat	I Samp Type: S  1	lle Du Solubl RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid			Added 250 Spike Added 250	Result 231.7 LCSD Result 229.5	Qualifier LCSD Qualifier	mg/Kg Cli	ent Sa	ımpl	93 le ID: l	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep	ol Samp Type: S <u>RPD</u> 1 mple ID	lle Du Solubl RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997	Sample	Sample	Added 250 Spike Added 250 Spike	Result 231.7 LCSD Result 229.5	Qualifier LCSD Qualifier MS	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 - 93	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec.	ol Samp Type: S <u>RPD</u> 1 mple ID	lle Du Solubl RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte	Sample Result	Qualifier	Added 250 Spike Added 250 Spike Added	Result 231.7 LCSD Result 229.5 MS Result	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 le ID: l %Rec 92	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits	ol Samp Type: S <u>RPD</u> 1 mple ID	le Du Solubi RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte	Sample	Qualifier	Added 250 Spike Added 250 Spike	Result 231.7 LCSD Result 229.5	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 - 93	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec.	ol Samp Type: S <u>RPD</u> 1 mple ID	lle Du Solubl RP Lim 2 : PH0
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MSD	Sample Result	Qualifier	Added 250 Spike Added 250 Spike Added	Result 231.7 LCSD Result 229.5 MS Result	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 le ID: l %Rec 92	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110	ol Samp Type: S <u>RPD</u> 1 mple ID Type: S	ele Du Solubi RP Lim 2 : PH0 Solubi
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MSD Matrix: Solid	Sample Result	Qualifier	Added 250 Spike Added 250 Spike Added	Result 231.7 LCSD Result 229.5 MS Result	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 le ID: l %Rec 92	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110	n Samp Type: S RPD 1 mple ID Type: S	ele Du Solubi RP Lim 2 : PH0 Solubi
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MSD Matrix: Solid	Sample Result 469	Qualifier	Added 250 Spike Added 250 Spike Added 248	Result 231.7 LCSD Result 229.5 MS Result 662.6	Qualifier LCSD Qualifier MS Qualifier F1	mg/Kg Cli Unit mg/Kg	ent Sa	ampl	93 le ID: l %Rec 92	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110 Client Sau Prep	ol Samp Type: S <u>RPD</u> 1 mple ID Type: S	ile Du Solubi 2 : PH0 Solubi
Analysis Batch: 9997 Analyte Chloride Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MS Matrix: Solid Analysis Batch: 9997 Analyte Chloride Lab Sample ID: 890-1430-1 MSD Matrix: Solid Analyte Chloride Lab Sample ID: 890-1430-1 MSD Matrix: Solid Analyte Chloride Lab Sample ID: 890-1430-1 MSD Matrix: Solid Analyte Analyte	Sample Result 469 Sample	Qualifier	Added 250 Spike Added 250 Spike Added	Result 231.7 LCSD Result 229.5 MS Result 662.6	Qualifier LCSD Qualifier MS Qualifier	mg/Kg Cli Unit mg/Kg	ent Sa	1mpl	93 le ID: l %Rec 92	%Rec. Limits 90 - 110 Lab Contro Prep %Rec. Limits 90 - 110 Client Sau Prep %Rec. Limits 90 - 110	ol Samp Type: S <u>RPD</u> 1 mple ID Type: S	ile Du Solubi Lim 2 : PH0 Solubi

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1430-1 SDG: 31402909.130

# GC VOA

## Prep Batch: 9747

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
MB 880-9747/5-A	Method Blank	Total/NA	Solid	5035	
rep Batch: 9748					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	5035	
390-1430-2	PH04A	Total/NA	Solid	5035	
390-1430-3	PH04B	Total/NA	Solid	5035	
390-1430-4	PH04C	Total/NA	Solid	5035	
/IB 880-9748/5-A	Method Blank	Total/NA	Solid	5035	
_CS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	5035	
_CSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
90-1428-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
390-1428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 9846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	8021B	9748
890-1430-2	PH04A	Total/NA	Solid	8021B	9748
890-1430-3	PH04B	Total/NA	Solid	8021B	9748
890-1430-4	PH04C	Total/NA	Solid	8021B	9748
MB 880-9747/5-A	Method Blank	Total/NA	Solid	8021B	9747
MB 880-9748/5-A	Method Blank	Total/NA	Solid	8021B	9748
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	8021B	9748
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9748
890-1428-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	9748
890-1428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9748

#### Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	Total BTEX	
890-1430-2	PH04A	Total/NA	Solid	Total BTEX	
890-1430-3	PH04B	Total/NA	Solid	Total BTEX	
890-1430-4	PH04C	Total/NA	Solid	Total BTEX	

## GC Semi VOA

#### Analysis Batch: 9623

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	8015B NM	9628
890-1430-2	PH04A	Total/NA	Solid	8015B NM	9628
890-1430-3	PH04B	Total/NA	Solid	8015B NM	9628
890-1430-4	PH04C	Total/NA	Solid	8015B NM	9628
MB 880-9628/1-A	Method Blank	Total/NA	Solid	8015B NM	9628
LCS 880-9628/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9628
LCSD 880-9628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9628
890-1441-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9628
890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	9628
Prep Batch: 9628					
Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

## GC Semi VOA (Continued)

## Prep Batch: 9628 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1430-2	PH04A	Total/NA	Solid	8015NM Prep	
890-1430-3	PH04B	Total/NA	Solid	8015NM Prep	
890-1430-4	PH04C	Total/NA	Solid	8015NM Prep	
MB 880-9628/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9628/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9628/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1441-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
890-1441-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
Analysis Batch: 10003					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1430-1	PH04	Total/NA	Solid	8015 NM	

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Bate
890-1430-1	PH04	Total/NA	Solid	8015 NM	
890-1430-2	PH04A	Total/NA	Solid	8015 NM	
890-1430-3	PH04B	Total/NA	Solid	8015 NM	
890-1430-4	PH04C	Total/NA	Solid	8015 NM	
<b>L</b>					

### HPLC/IC

#### Leach Batch: 9752

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1430-1	PH04	Soluble	Solid	DI Leach	
890-1430-2	PH04A	Soluble	Solid	DI Leach	
890-1430-3	PH04B	Soluble	Solid	DI Leach	
890-1430-4	PH04C	Soluble	Solid	DI Leach	
MB 880-9752/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1430-1 MS	PH04	Soluble	Solid	DI Leach	
890-1430-1 MSD	PH04	Soluble	Solid	DI Leach	

#### Analysis Batch: 9997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1430-1	PH04	Soluble	Solid	300.0	9752
890-1430-2	PH04A	Soluble	Solid	300.0	9752
890-1430-3	PH04B	Soluble	Solid	300.0	9752
890-1430-4	PH04C	Soluble	Solid	300.0	9752
MB 880-9752/1-A	Method Blank	Soluble	Solid	300.0	9752
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	300.0	9752
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9752
890-1430-1 MS	PH04	Soluble	Solid	300.0	9752
890-1430-1 MSD	PH04	Soluble	Solid	300.0	9752

Page 211 of 286

## Job ID: 890-1430-1 SDG: 31402909.130

9

Job ID: 890-1430-1 SDG: 31402909.130

## Lab Sample ID: 890-1430-1 Matrix: Solid

Lab Sample ID: 890-1430-2

Date Collected: 10/08/21 13:58 Date Received: 10/14/21 12:12

**Client Sample ID: PH04** 

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 02:39	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 17:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 14:35	СН	XEN MID

# **Client Sample ID: PH04A**

#### Date Collected: 10/08/21 14:00 Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 02:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 17:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 14:57	СН	XEN MID

# **Client Sample ID: PH04B**

#### Date Collected: 10/08/21 14:01 Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 03:20	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 18:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.97 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 15:04	СН	XEN MID

#### **Client Sample ID: PH04C** Date Collected: 10/08/21 14:03 Date Received: 10/14/21 12:12

	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	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 03:40	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Sample ID: 890-1430-3

Lab Sample ID: 890-1430-4

#### Matrix: Solid

Matrix: Solid

Matrix: Solid

Job ID: 890-1430-1

SDG: 31402909.130

Matrix: Solid

Lab Sample ID: 890-1430-4

# Lab Chronicle

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

# Client Sample ID: PH04C Date Collected: 10/08/21 14:03

Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9628	10/18/21 08:11	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9623	10/18/21 18:33	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 15:11	CH	XEN MID

Laboratory References:

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

10

# Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1430-1 SDG: 31402909.130

#### Laboratory: Eurofins Xenco, Midland

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

uthority		rogram	Identification Number	Expiration Date
exas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, bi	ut the laboratory is not certif	fied by the governing authority. This list ma	ay include analytes for
the agency does not o		Matrix	Analyte	
the agency does not o Analysis Method 8015 NM	fer certification. Prep Method	Matrix	Analyte Total TPH	

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1430-1 SDG: 31402909.130

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	E
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 Refe	rences:			8
ASTM = AS	STM International			
MCAWW =	"Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March	1983 And Subsequent Revisions.		9
SW846 = "	Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Editio	n, 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

#### Job ID: 890-1430-1 SDG: 31402909.130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Client Sample ID	Matrix	Collected	Received	Depth									
PH04	Solid	10/08/21 13:58	10/14/21 12:12	1									
PH04A	Solid	10/08/21 14:00	10/14/21 12:12	2									
PH04B	Solid	10/08/21 14:01	10/14/21 12:12	3									
PH04C	Solid	10/08/21 14:03	10/14/21 12:12	4									
	РН04 РН04А РН04В	PH04ASolidPH04BSolid	PH04         Solid         10/08/21 13:58           PH04A         Solid         10/08/21 14:00           PH04B         Solid         10/08/21 14:01	PH04         Solid         10/08/21 13:58         10/14/21 12:12           PH04A         Solid         10/08/21 14:00         10/14/21 12:12           PH04B         Solid         10/08/21 14:01         10/14/21 12:12									
Waland, Tr. (423) 704-540, EL Pean, Tr. (915) 983-543, Luebock, TX. (905) 744-730       Taron, F. (10) 750-737, Data Beach, F. (100) 750-737, Data	com     Page       der Comments     Brownfield       Brownfield     RR()       PST/U     TRf       DaPT     Other       Iab, if receiv     Iab, if receiv       SiO2     Na Sr TI Sn       1631/245.11/747			6								1	
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Brownfi Brownfi ADaPT ADaPT 1631	PST/U PST/U SiO2 N		o circumstances beyond the control unless previously negotiated.	ed by the client if such losses are due t analyzed. These terms will be enforced	xpenses incurre Xenco, but not	osses or e bmitted to	for each sample su	t assume any res d a charge of \$5	es and shall no each project an	cost of sampl be applied to	iable only for the ( inge of \$75.00 will)	f service. Xenco will be l f Service. Xenco will be l f Xenco. A minimum cha	
Manager         Kalei Jennings         Bill to statement         Case of the state of	S       Maland, TX (20) 704 - 540, EL Paso, TX (1905) 955 - 544 A, Luboock, TX (1905) 714-736         Houbes, NM (576) 932 - 750, Carthada Mid (576) 983 - 570, Carthada Mid (576) 9	1/243.1/747077471.10	111	cd Cr Co Cu Po Min Mo I	AS Ba De		6010: BRCR	ICLP/SPLP	alyzed	) to be an	s) and Metal(s	Circle Method(s	
Manage:         Name:         Name: <th col<="" td=""><td>Image: Trial of the set of the s</td><td>Na Sr TI Sn U V Zn</td><td>K Se Ag Si</td><td>Cd Ca Cr Co Cu Fe Pb I</td><td>Ba Be B</td><td></td><td>Texas 11 A</td><td>RA 13PPM</td><td>8RC</td><td>6020:</td><td>10 200.8 /</td><td>Total 200.7 / 60</td></th>	<td>Image: Trial of the set of the s</td> <td>Na Sr TI Sn U V Zn</td> <td>K Se Ag Si</td> <td>Cd Ca Cr Co Cu Fe Pb I</td> <td>Ba Be B</td> <td></td> <td>Texas 11 A</td> <td>RA 13PPM</td> <td>8RC</td> <td>6020:</td> <td>10 200.8 /</td> <td>Total 200.7 / 60</td>	Image: Trial of the set of the s	Na Sr TI Sn U V Zn	K Se Ag Si	Cd Ca Cr Co Cu Fe Pb I	Ba Be B		Texas 11 A	RA 13PPM	8RC	6020:	10 200.8 /	Total 200.7 / 60
Manager:         Kallei Jennings         Bill bill (raffeen)         Mull (57) 983-350, 1000, 1000, 17, 1009 (98-170)         Mull (57) 983-350, 1000, 1000, 17, 1009 (98-170)           sezze         Mill (17) 983-2000, 130         Bill bill (raffeen)         Bill bill (raffeen)         Mull (57) 983-350, 120, 120, 120, 120, 120, 120, 120, 12	Image: Trips: Calabase MR (195) 982-1509           Hobs: Nu (197) 982-1509           No write: Calabase MR (195) 982-1609												
Marager:         Kalei Jennings         Marager:         Kalei Jennings         Marager:         Kalei Jennings         Marager:         Kalei Jennings         Marager:         Marager:         Kalei Jennings         Marager:         Kalei Jennings         Marager:         Marager: <td>INITIAL Colspan="2"&gt;INITIAL Colspan="2"           INITIAL Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"</td> <td></td>	INITIAL Colspan="2">INITIAL Colspan="2"           INITIAL Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"         Initial Colspan="2"												
Marage:         Kale Jennings         Marad. TX (32) No.4406 E Pear N (1919) 583-3408 Deceme, 22 (480) 359-000         Marage: For Name         Moland. TX (32) No.440 (17) (43) 382-350.         Moland. TX (32) No.440 (17) (43) (10) TA (10) (10) (10) (10) (10) (10) (10) (10)	IMIGENT 12:05 - 44.0. LICK (15) 983-548.0. LICK (15) 983-548.0. LICK (15) 983-549.0. LICK (15) 983-5701           INTERCENT 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 10000 - 100000 - 10000 - 10000 - 10000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 100000 - 1000000 - 1000000 - 1000000 - 1000000 - 100000 - 1000000 - 100000 - 100000 - 100000 - 1000000 - 100000 - 100000 - 1000000 - 1000000 - 10000000 - 10000000 - 100000000							K					
Manager:         Kalei Jennings         Maland TX (92) 705-5440 EL Peacing National Min (53) 983-1980, Private, XI (480) 358-1980         Tenna FL (81) 983-198, Private, XI (480) 358-1980           Manager:         Kalei Jennings         Bill to (ramewn)         Bill to (ramewn)         Managese, FL (60) 758-0747, Dierey Back, FL (60) 983-198, Private, XI (480) 358-1980         Tenna FL (61) 983-198, Private, XI (480) 358-1980           as ZIP:         Midland, TX 79705         Earland, Min (53) 992-7580, Catabad, Min (53) 983-198, Private, XI (480) 358-1980         Tenna FL (60) 758-0747, Dierey Back, FL (60) 758-0747, Dier	Image: FL (43) 704 540, 174 (43) 704 540, 174 (59) 595 544, 1000 FL (59) 756-0717, Deray Beach, FL (59) 756-0717, Deray Beac							K UK	X				
Manager         Kalei Jennings         Mainar, TX (42) 70-5446. [E Pen, TX (615) 980-319. Present, AZ (480) 355-300.         Tampa, FL (413) 650-2000. Tailabases, FL (4017) 980-319. Present, AZ (480) 355-300.           Manager         Kalei Jennings         Bill to ( <i>rafinen)</i> Bill to ( <i>rafinen)</i> Bill to ( <i>rafinen)</i> Bill to ( <i>rafinen)</i> Munt (57) 982-3250.	Image: FL (43) 704 - 5440, 2100 (440) 355 - 5440, 1000 (440) 355 - 5440, 1000 (440) 355 - 5440, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 355 - 5400, 1000 (440) 350 (440) 355 - 5400, 1000 (440) 350 (440) 350 (440) 355 - 5400, 1000 (440) (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440) 350 (440)							1/1					
Manager:         Kalei Jennings         Maina (TX (42) 70-5446). [E Pen (TX (15) 983-399, Phoenix, 42 (49) 355-390)         Turna, FL (13) 983-399, Phoenix, 42 (49) 355-390           Manager:         Kalei Jennings         Bill to (rathream)         Bill to (rathream)         Manager:         Kalei Jennings         Bill to (rathream)         Manager:         Manager:         Kalei Jennings         Bill to (rathream)         Manager:         Manager:         Manager:         Kalei Jennings         Bill to (rathream)         Manager:         <	Image: Figure State of Project: Intermometer ID       Midand. TX (432) 74-5404. EL Paso. TX (451) 585-343. 1080-tX (480) 585-34. 1080-tX (480) 585-34. 1080-tX (480) 5								1	/			
Miland, TX (42) 70-5440, EL Pear, TX (193) 595-342, Lubber, TX (199) 78-0747. De Proder, TX (199) 78-0747. De	Image: File       Midand: TX (432) 704-5404, EL Paso, TX (451) 585-343, 1980-3199, Phonenik, AZ (480) 355-343, 1980-3199, 1980-3199, 1980-3199, 1980-3199, 1980-3199, 1980-31							1403	10/8/2021	s	C	PH04	
Maland, TX (423) 704-4040, El Paen, TX (403) 545-5443, Lubook, TX (400) 744-726         Manager:         Kalel Jennings         Intervention         Bill to (referent)         Nume         Nume         Sample Company Name         Num (573) 592-3750, Carbod, MM (574) 592-3750, Carbod, MM (574) 592-3750, Carbod, MM (574) 592-3750,	Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-3199, Phoenix, AZ (480) 355-0900       Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701         Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701         Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701         Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2001         Image: FL (B13) 620-2000, Tailahassee, FL (B50) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2001         Image: FL (B13) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2001         Image: FL (B13) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2001         Image: FL (B13) 756-0747, Delay Beach, FL (S61) 688-6701       Image: FL (B13) 620-2001         Image: FL (B14) 700       Image: FL (B14) 700       Image: FL (B14) 700         Image: FL (B14) 700       Image: FL (B14) 700       Image: FL (B14) 700         Image: FL (B14) 700       Image: FL (B14) 700       Image: FL (B14) 700         Image: FL (B14) 700       Image: FL (B14) 700       Image: FL (B14) 700         Image: FL (B14) 700       Image: FL (B14) 700       Image: FL (B14) 700 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1401</td> <td>10/8/2021</td> <td>S</td> <td>Β</td> <td>PH04</td>							1401	10/8/2021	S	Β	PH04	
Maland, TX (42)         TX (42)         TV: 4400, EL Pano, TX (415) 565-5443, Luboxic, TX (405) 794-726           Manager         Kalel Jennings         Maland, TX (75) 598-5100         Tampa, FL (813) 620-2000, Talabassase, FL (650) 7540-276         Tumos, FL (813) 620-2000, Talabassase, FL (650) 7540-276         Tumos, FL (813) 620-2000, Talabassase, FL (650) 7540-276         Tumos, FL (813) 7560-276         Tumos, FL (810, FL (810	Impled       Tampa, FL (813) 620-2000, Taliahassee, FL (850) 756-0747, Delray Beach, FL (850) 756-0747, Delray Beach, FL (850) 850-1090       Impled (11) (11) (11) (12) (12) (12) (12) (12)				K			1400	10/8/2021	S	A	PH04	
Maland, TX (432) 704-5440, EL Pae, TX (915) 585-343, Lubbock, TX (808) 784-728 Hoobs, MM (675) 582-350, Cataload MM (675) 683-390, Phoemx, A2 (480) 585-600       Manager:     Kalei Jennings     Bill to (rafferent)       Name     MSP USA     Bill to (rafferent)       Midland, TX 79705     Bill to (rafferent)       Item     Azores Fed Com 4H     Tum Around       Number:     1402:909 130     Routine:       Statue (°C):     C:     C:       PLE RECEIPT     Tem Blank:     City       Name     Faima Smith     Due Date:       PLE RECEIPT     Tem Blank:     City       Oussion/ Sals:     Yes No     Ocretion Factor:       Oussion/ Sals:     Yes No     Correcton Factor:       Oussion/ Sals:     Yes No     Date       Time     Date     Time       Martin     Sampled     Sampled	Image: FL (913) 27.753.01       Miland, TX (92) 704-5440, ELP Basa, TX (915) 983-3199, Phoenix, AZ (480) 355-0900         Tampa, FL (913) 802-2000, Tallahassee, FL (950) 986-3199, Phoenix, AZ (480) 355-0900       Milanta, GA (770) 44-800         Altaria: GA (770) 44-800       Milanta, GA (770) 44-800         Altaria: GA (770) 44-800       Milanta, GA (770) 44-800         Address:       Address:         Company Name:       Moltine:         Address:       Address:         Gompany Name:       Moltine:         Address:       Address:         Gom 4H       Turn Around         Routine:       Address:         Smith       Due Date:         a Smith       Due Date:         Amamoeter ID       ANALYSIS REQUEST         No       Wet loci. (12)         Tammoeter ID       ANALYSIS REQUEST         No       Wet loci. (12)         Analytic Containers       Analytic (EPA 3000.0)         Bit EX (EPA 0=8021)       Bit Childre (EPA 3000.0)         Bit Childreiter       Bit Childreiter							1358	10/8/2021	S		PHO	
Midland, TX (422) 704-540, EL Pass, TX (915) 585-5443, Lubook, TX (806) 784-1296       Manager, Kalei Jennings     Bill to: (#diffeent)       my Name     WSP USA       s:     3300 North A Street       dar ZIP:     Midland, TX 79705       company Name     Company Name       s:     3140/2909 (130)       rs Name:     Fatina Smith       Lea County     Rush:       rs Name:     Fatina Smith       Lea County     Rush:       rs Name:     Fatina Smith       Lea County     Talamoneter ID       aturaci:     Work Order Company       rs Name:     Fatina Smith       Later Color     Contailners       rs Name:     Fatina Smith       Lea County     Talamoneter ID       aturaci:     Work Order Company       Yes No.     Monty Correction Factor       Ves No.     Mark Contactor       Ves No.     Work Order Company       Mumber:     104/2909 (130)       France     Fating Smith       Due Date:     Address:       rs Name:     Fating Smith       Custody Seals     Yes No.       Main Containers:     Mark 105 (1490)       Ball Ho:     Mark 105 (1490)       Ball Ho:     Mark 105 (1490)       Balink:     Ball 14	Midland, TX (422) 704.5440, EL Paso, TX (916) 805-3434, Lubok, TX (806) 764-1796         Hobs, NM (675) 392-7200, Tailahassee, FL (850) 756-0747, Deiray Beach, FL (691) 850-800         Tampa, FL (813) 620-2000, Tailahassee, FL (850) 756-0747, Deiray Beach, FL (691) 850-800         Midland, TX (422) 704.5440, EL Paso, TX (916) 808-3149, Lubok, TX (806) 755-0701         Aldress:         Ell Ib: (if different)         Company Name         Company Name         City, State ZIP:         County         Email: kalei, jennings@wsp.com         Address:         County         Email: kalei, jennings@wsp.com         Address:         County         Reporting:Level []         Email: kalei, jennings@wsp.com         AMALVSIS REQUEST         Poliverables: EDD []         ADarPT         Due Date:         a Smith         Due Date:         a Smith         Due Date:         a Smith         Due Date:         a Smith         Due Date:         PR         Address:         PR         Address         Bill to:         Themmeter ID         Address         Bill to: <td>Sample Comments</td> <td></td> <td></td> <td></td> <td>трн (е</td> <td>-</td> <td>Time Sampled</td> <td>Date Sampled</td> <td>Matrix</td> <td>lification</td> <td>Sample Ident</td>	Sample Comments				трн (е	-	Time Sampled	Date Sampled	Matrix	lification	Sample Ident	
Marager, Name:       Kalei Jennings       Bill to: (I differen)       Number, IX (95) 585-343, Lubboot, TX (806) 78-1/295         Manager, Kalei Jennings       Bill to: (I differen)       Bill to: (I differen)       Number, IX (95) 585-343, Lubboot, TX (806) 78-1/295         Name:       WSP USA       Company Name:       Solution A Street       Address.         ate ZIP:       Midland, TX 79705       City, State ZIP       Maintage, City, State ZIP       Program: UST/PST[] PRF[] Brownfi         Number:       3140/2909,130       Email: Kalei.jennings@wsp.com       ANALYSIS REQUEST       Pooring Level [] Level [] PST/U       Pelleverables. EDD [] ADPT         Number:       13140/2909,130       Routine:       Xite of Project:       Reporting Level [] PRF[] Brownfi         State of Project:       1100 [] Level [] City, State ZIP       Non [] Level [] PRF[] Brownfi       State of Project:       PST/U         Number:       13140/2909,130       Routine:       Xity, City, State ZIP       Non [] Level [] ADPT       ADPT         Yes Name:       Fatima Smith       Due Date:       No       No       No       ADPT         Yes No       Vet Los:       Kigs No       No       No       No       No       No         State of Project:       10       10       10       ADPT       ADPT       ADPT	Midiand, TX (432) 704 5440, EL Paso, TX (165) 598-3432, Libook, TX (1606) 794-1296         Hobbs, NM (575) 392-7550, Cansbad, NM (575) 988-3199, Phoenix, AZ (480) 355-090         Tampa, FL (813) 620-2000, Tailanassee, FL (850) 756-0747, Delray Beach, FL (561) 589-6701         Allanta, GA (170) 449-8800         WMW, Xenco, Company, Name:         Company, Name:         Address:         Company, Name:         Address:         City, State ZIP:         Email:         Kit         Address:         City, State ZIP:         Email:         Kale i, ennings@wsp.com         AnALYSIS REQUEST         No         Wet loe:         Mith         Due Date::         a Smith         Due Date::         a Smith         Due Date::         a Smith         Due Date::         Anal. YSIS REQUEST         Mark:         Qio         And Lysis Addition of Custody         Analy         Batter i D         Addition of Custody         Addition of Custody	lab, if received by 4:30pm				PA 8	ero	ners:	Total Contai	11 -	Yes	Sample Custody Seal	
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Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296         Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 335-0900         Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701         Kalei Jennings       Bill to: (f different)       Num, Xenco. com       Page         WSP USA       Company Name:       Company Name:       Work Order Comments       Program: UST/PST[] PRF[] Brownfield[] RR(]       State of Project:         Midland, TX 79705       City, State ZIP:       Company Name       Reporting:Level [] Level [] PST/U§] TRf[]	Bill to: (If different)         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, Deiray Beach, FL (561) 689-6701         Atlanta, GA (770) 449-8800         www.xenco.com         Page           Bill to: (If different)         Atlanta, GA (770) 449-8800         www.xenco.com         Page           Company Name:         Vork Order Comments         Vork Order Comments           Address:         Address:         State of Project:           City, State ZIP:         City, State ZIP:         Reporting:Level    Level    PST/US  TRf				B	wsp.cor	alei.jennings@	Email: K		03	(817) 683-250	Phone:	
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Chain of Custody

Work Order No:

### Received by OCD: 3/18/2022 1:35:11 PM

	Custody Seals Intact. Custody Seal No	Relinquished by		remindustred by the Cinc. 10-14.21	Empty Kit Relinguished by	penveranie redresen i ii ii in oniei (specii)	Unconfirmed	Possible Hazard Identification	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 laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC aboratory 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.						PH04C (890-1430-4)	PH04A (890-1430-2)	PH04 (890-1430-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name Azores Fed Com 4H	Email	Phone 432-704-5440(Tel)	State Zip TX 79701	City [,] Midland	Address 1211 W Florida Ave	Company Eurofins Xenco	Client Contact. Shipping/Receiving	ormation (Sub Contract Lab)	Fax: 575-988-3199	1089 N Canal St. Carlsbad. NM 88220	Eurofins Xenco, Carlsbad
		Date/Time	Date/11me	Date/Time-					aces the ownership bing analyzed the sa signed Chain of Cu						10/8/21	10/8/21	10/8/21	M	Sample Date	SSOW#·	Project #: 89000048	WO#	PO #		TAT Requested (days)	Due Date Requested 10/20/2021		Phone	Sampler		0	
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		Company	Company	Company					ation compliand to the Eurofins ance to Eurofir						Solid	Solid	Solid	Preservation Code:	Matrix (W=water S=solid O=waste/oll, 3T=Tissue, A=Air)									E-Mail jessic	Lab PM Krame		tody R	
					Time	U	, —	S	ce upor Xenco Is Xenc		 					_		$\propto$	Field Filtered Perform MS/				<b>)</b>		<u>di si</u> 1916 - 1		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas	E-Mail jessica kramer@eurofinset com	Lab PM Kramer, Jessica		ecc	
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Job Number: 890-1430-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1430 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 True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs

N/A

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

Eurofins Xenco, Carlsbad Released to Imaging: 4/27/2022 11:07:44 AM

### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1430 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1430-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland List Creation: 10/15/21 12:19 PM Received by OCD: 3/18/2022 1:35:11 PM

# ⁵286 1 2 3 4 5 6 7 8 9 10 11 11 12 13

🔅 eurofins

# Environment Testing America

# **ANALYTICAL REPORT**

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

### Laboratory Job ID: 890-1431-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

### For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/22/2021 4:12:27 PM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

results through Total Access Have a Question? Ask The Expert Visit us at: www.eurofinsus.com/Env

LINKS

**Review your project** 

Released to Imaging: 4/27/2022 11:07:44 AM

Laboratory Job ID: 890-1431-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Client Sample Results	5
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	17
Lab Chronicle	20
Certification Summary	22
Method Summary	23
Sample Summary	24
Chain of Custody	25
Receipt Checklists	27

### Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1431-1
SDG: 31402909.130

### Qualifiers

Quanters		- 3
GC VOA		
Qualifier	Qualifier Description	_ 4
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.	5
F1	MS and/or MSD recovery exceeds control limits.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VOA		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not	8
S1-	applicable. Surrogate recovery exceeds control limits, low biased.	
S1+		Q
	Surrogate recovery exceeds control limits, high biased.	3
U	Indicates the analyte was analyzed for but not detected.	
HPLC/IC		
Qualifier	Qualifier Description	
F1	MS and/or MSD recovery exceeds control limits.	11
U	Indicates the analyte was analyzed for but not detected.	
Glossary		12
Abbreviation	These commonly used abbreviations may or may not be present in this report.	13
¤	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	

CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 890-1431-1 SDG: 31402909.130

### Job ID: 890-1431-1

Client: WSP USA Inc.

### Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

Narrative

Job Narrative 890-1431-1

### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9748 and analytical batch 880-9846 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH05 (890-1431-1), PH05A (890-1431-2), PH05B (890-1431-3), PH05C (890-1431-4) and (890-1428-A-1-E). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9911 and analytical batch 880-10084 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH05A (890-1431-2) and (890-1434-A-1-D). Evidence of matrix interferences is not obvious.

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

### GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1431-A-1-B MS) and (890-1431-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: PH05B (890-1431-3), (890-1428-A-3-C), (890-1428-A-3-D MS) and (890-1428-A-3-E MSD). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9752 and analytical batch 880-9997 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Job ID: 890-1431-1 SDG: 31402909.

### Client Sample ID: PH05

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 15:12 Date Received: 10/14/21 12:12

Sample Depth: 1

Client: WSP USA Inc.

# Lab Sample ID: 890-143

Matrix: So

81-1 130	2
1-1 olid	3
	4
	5
1 <b>Fac</b>	6
100 100	7
100 100 100	8
l Fac	9
1 1	10
Fac	11
1	12
Fac	13
1	14
Fac 1	

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00313		0.00198	mg/Kg		10/18/21 14:06	10/20/21 04:01	
Toluene	2.64		0.199	mg/Kg		10/19/21 15:07	10/21/21 20:59	100
Ethylbenzene	3.88		0.199	mg/Kg		10/19/21 15:07	10/21/21 20:59	100
m-Xylene & p-Xylene	16.4		0.398	mg/Kg		10/19/21 15:07	10/21/21 20:59	100
o-Xylene	7.37		0.199	mg/Kg		10/19/21 15:07	10/21/21 20:59	100
Xylenes, Total	23.8		0.398	mg/Kg		10/19/21 15:07	10/21/21 20:59	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	612	S1+	70 - 130			10/18/21 14:06	10/20/21 04:01	1
1,4-Difluorobenzene (Surr)	78		70 - 130			10/18/21 14:06	10/20/21 04:01	1
Method: Total BTEX - Total BTEX	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	30.3		0.398	mg/Kg			10/21/21 17:04	1
Method: 8015 NM - Diesel Range	e Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Fotal TPH	5270		50.0	mg/Kg			10/20/21 13:58	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Casoline Range Organics GRO)-C6-C10	855		50.0	mg/Kg		10/18/21 07:49	10/18/21 12:25	
Diesel Range Organics (Over C10-C28)	4410		50.0	mg/Kg		10/18/21 07:49	10/18/21 12:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:49	10/18/21 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane			70 - 130			10/18/21 07:49	10/18/21 12:25	
p-Terphenyl	87		70 - 130			10/18/21 07:49	10/18/21 12:25	1
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	43.3		4.95	mg/Kg			10/20/21 15:18	1
lient Sample ID: PH05A						Lab San	nple ID: 890-	1431-2
ate Collected: 10/08/21 15:14							Matri	x: Solid
ate Received: 10/14/21 12:12								
ample Depth: 2								
Method: 8021B - Volatile Organi	c Compounds (	(GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
3enzene	0.0231		0.00202	mg/Kg		10/18/21 14:06	10/20/21 04:21	1
Toluene	2.75		0.200	mg/Kg		10/19/21 15:07	10/21/21 21:19	100
Ethylbenzene	3.97		0.200	mg/Kg		10/19/21 15:07	10/21/21 21:19	100
m-Xylene & p-Xylene	9.62		0.401	mg/Kg		10/19/21 15:07	10/21/21 21:19	100
o-Xylene	5.11		0.200	mg/Kg		10/19/21 15:07	10/21/21 21:19	100
Xylenes, Total	14.7		0.401	mg/Kg		10/19/21 15:07	10/21/21 21:19	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
		\$1+						

4-Bromofluorobenzene (Surr)

Eurofins Xenco, Carlsbad

10/18/21 14:06 10/20/21 04:21

Released to Imaging: 4/27/2022 11:07:44 AM

70 - 130

740 S1+

10/22/2021

Project/Site: Azores Fed Com 4H

**Client Sample ID: PH05A** 

### **Client Sample Results**

Job ID: 890-1431-1 SDG: 31402909.130

# Lab Sample ID: 890-1431-2

Matrix: Solid

5

Date Collected: 10/08/21 15:14 Date Received: 10/14/21 12:12

Client: WSP USA Inc.

Sample Depth: 2

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)	120		70 - 130			10/18/21 14:06	10/20/21 04:21	
Method: Total BTEX - Total BTEX	<b>K</b> Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	21.5		0.401	mg/Kg			10/21/21 17:04	
Method: 8015 NM - Diesel Range	organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	4900		50.0	mg/Kg			10/20/21 13:58	
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	740		50.0	mg/Kg		10/18/21 07:49	10/18/21 13:53	
Diesel Range Organics (Over C10-C28)	4160		50.0	mg/Kg		10/18/21 07:49	10/18/21 13:53	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/18/21 07:49	10/18/21 13:53	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	105		70 - 130			10/18/21 07:49	10/18/21 13:53	
o-Terphenyl	82		70 - 130			10/18/21 07:49	10/18/21 13:53	
Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	110		5.04	mg/Kg			10/20/21 15:39	
lient Sample ID: PH05B						Lab San	nple ID: 890-	
ate Collected: 10/08/21 15:17							Matri	x: Soli
ata Dagaissadi 40/44/04 40:40								
ample Depth: 3	c Compounds (	GC)						
ample Depth: 3 Method: 8021B - Volatile Organie	-	(GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
ample Depth: 3 Method: 8021B - Volatile Organi Analyte	-		RL		D	Prepared 10/18/21 14:06	Analyzed	
ample Depth: 3 Method: 8021B - Volatile Organie Analyte Benzene	Result			Unit mg/Kg mg/Kg	<u>D</u>			
ample Depth: 3 Method: 8021B - Volatile Organio Analyte Benzene Toluene	Result 0.187		0.00200	mg/Kg	<u>D</u>	10/18/21 14:06	10/20/21 04:41	10
ample Depth: 3 Method: 8021B - Volatile Organi Analyte Benzene Toluene Ethylbenzene	Result 0.187 6.89		0.00200	mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07	10/20/21 04:41 10/21/21 21:40	10 10
ample Depth: 3 Method: 8021B - Volatile Organie Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result 0.187 6.89 5.31 21.6		0.00200 0.201 0.201 0.402	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 04:41 10/21/21 21:40 10/21/21 21:40	10 10 10
ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 0.187 6.89 5.31		0.00200 0.201 0.201	mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07	10/20/21 04:41 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40	10 10 10 10
ample Depth: 3 Method: 8021B - Volatile Organie Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result 0.187 6.89 5.31 21.6 9.34	Qualifier	0.00200 0.201 0.201 0.402 0.201	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 04:41 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40	10 10 10 10 10
ample Depth: 3 Method: 8021B - Volatile Organie Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate	Result 0.187 6.89 5.31 21.6 9.34 30.9 %Recovery	Qualifier	0.00200 0.201 0.201 0.402 0.201 0.201 0.402	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 04:41 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40	10 10 10 10 10
ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result 0.187 6.89 5.31 21.6 9.34 30.9 %Recovery	Qualifier	0.00200 0.201 0.201 0.402 0.201 0.402 Limits	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 <b>Prepared</b>	10/20/21 04:41 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 10/21/21 21:40 <b>Analyzed</b>	10 10 10 10 10 <b>Dil Fa</b>
ate Received: 10/14/21 12:12 ample Depth: 3 Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTEX	Result           0.187           6.89           5.31           21.6           9.34           30.9           %Recovery           763           101	Qualifier	0.00200 0.201 0.201 0.402 0.201 0.402 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	10/18/21         14:06           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07	10/20/21 04:41           10/21/21 04:41           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40	10 10 10 10 10 <b>Dil Fa</b>
ample Depth: 3 Method: 8021B - Volatile Organie Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result           0.187           6.89           5.31           21.6           9.34           30.9           %Recovery           763           101           X Calculation	Qualifier	0.00200 0.201 0.201 0.402 0.201 0.402 <u>Limits</u> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21         14:06           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07	10/20/21 04:41           10/21/21 04:41           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40           10/21/21 21:40	Dil Fa 10 10 10 10 Dil Fa

			5 5				
Method: 8015 NM - Diesel Range Or	ganics (DRO) (GC)						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	8700	50.0	mg/Kg			10/20/21 13:58	1

### **Client Sample Results**

RL

50.0

50.0

50.0

Limits

Unit

mg/Kg

mg/Kg

mg/Kg

D

Prepared

10/19/21 09:45

10/19/21 09:45

10/19/21 09:45

Prepared

Job ID: 890-1431-1 SDG: 31402909.130

### **Client Sample ID: PH05B**

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 15:17

**Gasoline Range Organics** 

**Oll Range Organics (Over** 

**Diesel Range Organics (Over** 

Sample Depth: 3

Analyte

(GRO)-C6-C10

C10-C28)

C28-C36)

Surrogate

Client: WSP USA Inc.

Lab Sample ID:	890-1431-
	Matrix: Soli

Analyzed

10/19/21 13:06

10/19/21 13:06

10/19/21 13:06

Analyzed

-3 lid 5 Dil Fac 1 1 1 Dil Fac

Junoyale	/onecovery	Quanner	Lilling			Frepareu	Allalyzeu	Dii Fat
1-Chlorooctane	138	S1+	70 - 130			10/19/21 09:45	10/19/21 13:06	1
o-Terphenyl	122		70 - 130			10/19/21 09:45	10/19/21 13:06	1
Method: 300.0 - Anions, Ion Chro	omatography -	Solublo						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	321		4.99	mg/Kg			10/20/21 15:47	1
lient Sample ID: PH05C						Lab San	nple ID: 890-	1/21 /
ate Collected: 10/08/21 15:23						Lab Sai	-	ix: Solid
ate Received: 10/14/21 12:12							Iviati	x. 3010
Sample Depth: 4								
Method: 8021B - Volatile Organic	c Compounds	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00510		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:04	1
Toluene	0.0392		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:04	1
Ethylbenzene	0.0748		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:04	1
m-Xylene & p-Xylene	0.131		0.00402	mg/Kg		10/18/21 14:06	10/20/21 06:04	
o-Xylene	0.348		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:04	1
Xylenes, Total	0.479		0.00402	mg/Kg		10/18/21 14:06	10/20/21 06:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	297	S1+	70 - 130			10/18/21 14:06	10/20/21 06:04	1
1,4-Difluorobenzene (Surr)	109		70 - 130			10/18/21 14:06	10/20/21 06:04	1
- Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.598		0.00402	mg/Kg			10/21/21 17:04	1
- Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	6140		49.8	mg/Kg			10/20/21 13:58	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	369		49.8	mg/Kg		10/18/21 07:49	10/18/21 14:22	1
Diesel Range Organics (Over C10-C28)	5770		49.8	mg/Kg		10/18/21 07:49	10/18/21 14:22	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:49	10/18/21 14:22	1

Eurofins Xenco, Carlsbad

Date Received: 10/14/21 12:12

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

Result Qualifier

1320

6380

1000

%Recovery Qualifier

		Client	Sample Res	sults					1
Client: WSP USA Inc. Project/Site: Azores Fed Com 4H							Job ID: 890 SDG: 31402		2
Client Sample ID: PH05C Date Collected: 10/08/21 15:23						Lab Sa	mple ID: 890- Matri	1431-4 ix: Solid	
Date Received: 10/14/21 12:12 Sample Depth: 4									4
Method: 300.0 - Anions, Ion Chrom Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	5
Chloride	187		4.97	mg/Kg			10/20/21 15:54	1	
									8
									9
									13

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-1428-A-1-C MS	Matrix Spike	98	107		
890-1428-A-1-D MSD	Matrix Spike Duplicate	107	105		
890-1431-1	PH05	612 S1+	78		
890-1431-2	PH05A	740 S1+	120		
890-1431-3	PH05B	763 S1+	101		
890-1431-4	PH05C	297 S1+	109		
890-1434-A-1-B MS	Matrix Spike	136 S1+	125		
890-1434-A-1-C MSD	Matrix Spike Duplicate	96	92		
LCS 880-9748/1-A	Lab Control Sample	103	110		
LCS 880-9911/1-A	Lab Control Sample	88	99		
LCSD 880-9748/2-A	Lab Control Sample Dup	95	108		
LCSD 880-9911/2-A	Lab Control Sample Dup	88	102		
MB 880-9747/5-A	Method Blank	109	93		
MB 880-9748/5-A	Method Blank	114	104		
MB 880-9911/5-A	Method Blank	100	104		
Surrogate Legend					
BFB = 4-Bromofluorober					
DFBZ = 1,4-Difluoroben:	zene (Surr)				

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

### Matrix: Solid

		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1428-A-3-D MS	Matrix Spike	312 S1+	215 S1+
890-1428-A-3-E MSD	Matrix Spike Duplicate	268 S1+	203 S1+
890-1431-1	PH05	110	87
890-1431-1 MS	PH05	113	58 S1-
890-1431-1 MSD	PH05	121	65 S1-
890-1431-2	PH05A	105	82
890-1431-3	PH05B	138 S1+	122
890-1431-4	PH05C	100	73
LCS 880-9627/2-A	Lab Control Sample	82	92
LCS 880-9834/2-A	Lab Control Sample	94	96
LCSD 880-9627/3-A	Lab Control Sample Dup	84	93
LCSD 880-9834/3-A	Lab Control Sample Dup	86	89
MB 880-9627/1-A	Method Blank	91	109
MB 880-9834/1-A	Method Blank	101	116

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### Job ID: 890-1431-1 SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

### **QC Sample Results**

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

Lab Sample ID: MB 880-9747/	5-A								<b>Client Sa</b>	mple ID: Me		
Matrix: Solid										Prep Typ	e: To	tal/NA
Analysis Batch: 9846										Prep E	Batch	: 9747
	ME	MB										
Analyte	Result	Qualifier	RL	·	Unit		D	P	repared	Analyzed		Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Toluene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:01	10/19/21 14:2	25	1
	ME	МВ										
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
1,4-Difluorobenzene (Surr)	93	1	70 - 130					10/1	8/21 14:01	10/19/21 14:	25	1
Lab Sample ID: MB 880-9748/	5-A								Client Sa	mple ID: Me		
Matrix: Solid										Prep Typ	e: To	tal/NA
Analysis Batch: 9846										Prep E	Batch	: <b>974</b> 8
	MB	MB										
Analyte	Result	Qualifier	RL		Unit		D	P	repared	Analyzed		Dil Fac
Benzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Toluene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Ethylbenzene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
o-Xylene	<0.00200	U	0.00200		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
Xylenes, Total	<0.00400	U	0.00400		mg/K	g		10/1	8/21 14:06	10/20/21 01:	6	1
	ME	МВ										
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130					10/1	8/21 14:06	10/20/21 01:	16	1
1,4-Difluorobenzene (Surr)	104	!	70 - 130					10/1	8/21 14:06	10/20/21 01:	16	1
- Lab Sample ID: LCS 880-9748	8/1-A						С	lient	Sample	ID: Lab Cont	rol S	ample
Matrix: Solid										Prep Typ		
Analysis Batch: 9846										Prep E		
			Spike	LCS	LCS					• %Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1040		mg/Kg			104	70 - 130		
Toluene			0.100	0.08958		mg/Kg			90	70 - 130		
Ethylbenzene			0.100	0.08535		mg/Kg			85	70 - 130		
m-Xylene & p-Xylene			0.200	0.1765		mg/Kg			88	70 - 130		
o-Xylene			0.100	0.09487		mg/Kg			95	70 - 130		
0-Xylene			0.100	0.03407		ing/itg			30	70 - 100		
•	LCS LC											
Surrogate	%Recovery Qu	aimer	Limits									
4-Bromofluorobenzene (Surr)	103		70 - 130									
1,4-Difluorobenzene (Surr)	110		70 - 130									
Lab Sample ID: LCSD 880-974	48/2-A					CI	ient	Sam	ple ID: L	ab Control S		
Matrix: Solid										Prep Typ		
Analysis Batch: 9846										Prep E	Batch	
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	RPD	Limit
Benzene			0.100	0.09387	-	mg/Kg			94	70 - 130	10	35

5

Job ID: 890-1431-1

SDG: 31402909.130

### **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1431-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-9 Matrix: Solid	748/2-A					Clie	nt Sam	ple ID: I	Lab Contro		
Analysis Batch: 9846										ype: To p Batch	
Analysis Batch: 9646			Spike	1.050	LCSD				%Rec.	р ватсп	8740 RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.08336	Quanner	mg/Kg		83	70 - 130	7	35
Ethylbenzene			0.100	0.07798		mg/Kg		78	70 <u>-</u> 130	, 9	35
m-Xylene & p-Xylene			0.200	0.1605		mg/Kg		80	70 - 130	9	35
o-Xylene			0.100	0.08265		mg/Kg		83	70 - 130	14	35
	LCSD	LCSD									
Surrogate	%Recovery		Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								
A	•	Sample	Spike	MS	MS	11 14		0/ <b>D</b> = =	%Rec.		
Analysis Batch: 9846	0	0	0 11							p Batch	: 9748
Analyte	•	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0165		0.0996	0.09876		mg/Kg			70 - 130		
Toluene	0.107	F1	0.0996	0.08737	F1	mg/Kg		-20	70 - 130		
Ethylbenzene	0.181	F1	0.0996	0.08507	F1	mg/Kg		-96	70 - 130		
m-Xylene & p-Xylene	0.0164		0.199	0.1725		mg/Kg		78	70 _ 130		
o-Xylene	2.38	E	0.0996	0.08738	4	mg/Kg		-2301	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
Lab Sample ID: 890-1428-A	-1-D MSD					C	lient Sa	mple ID	): Matrix Sp	oike Dur	olicate
Matrix: Solid										ype: To	
Analysis Batch: 9846										p Batch	

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0165		0.100	0.08998		mg/Kg		73	70 - 130	9	35
Toluene	0.107	F1	0.100	0.08531	F1	mg/Kg		-22	70 - 130	2	35
Ethylbenzene	0.181	F1	0.100	0.08445	F1	mg/Kg		-96	70 - 130	1	35
m-Xylene & p-Xylene	0.0164		0.200	0.1755		mg/Kg		80	70 - 130	2	35
o-Xylene	2.38	E	0.100	0.08882	4	mg/Kg		-2291	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

### Lab Sample ID: MB 880-9911/5-A Matrix: Solid Analysis Batch: 10084

### MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 10/19/21 15:07 10/21/21 13:59 mg/Kg 1 Toluene <0.00200 U 0.00200 mg/Kg 10/19/21 15:07 10/21/21 13:59 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/19/21 15:07 10/21/21 13:59 1 m-Xylene & p-Xylene <0.00400 U 0.00400 10/19/21 15:07 10/21/21 13:59 mg/Kg 1

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**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 9911

5

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

### Job ID: 890-1431-1 SDG: 31402909.130

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

Lab Sample ID: MB 880-9911/5	5-A								<b>Client Sa</b>	mple ID: Metho	
Matrix: Solid										Prep Type: 7	
Analysis Batch: 10084										Prep Bate	ch: 9911
	MB										
Analyte		Qualifier	RL		Uni	-	D	-	repared	Analyzed	Dil Fac
o-Xylene	<0.00200		0.00200		mg/	•			19/21 15:07	10/21/21 13:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/	Кg		10/1	19/21 15:07	10/21/21 13:59	1
	МВ	МВ									
Surrogate	%Recovery	Qualifier	Limits					F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130					10/1	19/21 15:07	10/21/21 13:59	1
1,4-Difluorobenzene (Surr)	104		70 - 130					10/1	19/21 15:07	10/21/21 13:59	1
Lab Sample ID: LCS 880-9911/	/1-0						c	lien	t Sample I	D: Lab Control	Sample
Matrix: Solid									c oumpion	Prep Type: ⁻	
Analysis Batch: 10084										Prep Bate	
·····,····			Spike	LCS	LCS					%Rec.	
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits	
Benzene			0.100	0.1034		mg/Kg			103	70 - 130	
Toluene			0.100	0.1080		mg/Kg			108	70 - 130	
Ethylbenzene			0.100	0.1174		mg/Kg			117	70 - 130	
m-Xylene & p-Xylene			0.200	0.2275		mg/Kg			114	70 - 130	
o-Xylene			0.100	0.1186		mg/Kg			119	70 - 130	
	LCS LCS	;									
Surrogate	%Recovery Qua	lifier	Limits								
4-Bromofluorobenzene (Surr)	88		70 - 130								
1,4-Difluorobenzene (Surr)	99		70 - 130								
Lab Sample ID: LCSD 880-991 Matrix: Solid	1/2-A					CI	ient	San	nple ID: La	ab Control Sam Prep Type: ⁻	
Analysis Batch: 10084										Prep Bate	

### Analysis Batch: 10084

								p Daton	
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1055		mg/Kg		105	70 - 130	2	35
Toluene	0.100	0.1109		mg/Kg		111	70 - 130	3	35
Ethylbenzene	0.100	0.1167		mg/Kg		117	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2266		mg/Kg		113	70 - 130	0	35
o-Xylene	0.100	0.1189		mg/Kg		119	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

### Lab Sample ID: 890-1434-A-1-B MS Matrix: Solid

Analysis Batch: 10084

Analysis Batch: 10084									Prep Batcl			
	Sample	Sample	Spike	MS	MS				%Rec.			
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits			
Benzene	<0.00199	U	0.0990	0.09342		mg/Kg		94	70 - 130			
Toluene	<0.00199	U	0.0990	0.1154		mg/Kg		116	70 - 130			
Ethylbenzene	<0.00199	U	0.0990	0.1197		mg/Kg		121	70 - 130			
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2190		mg/Kg		111	70 - 130			
o-Xylene	<0.00199	U F1	0.0990	0.1308	F1	mg/Kg		131	70 - 130			

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Prep Type: Total/NA

**Client Sample ID: Matrix Spike** 

### **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

### Lab Sample ID: 890-1434-A-1-B MS

### Matrix: Solid Analysis Batch: 10084

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)		S1+	70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

### Lab Sample ID: 890-1434-A-1-C MSD Matrix: Solid

### Analysis Batch: 10084

Analysis Batch: 10084									Pre	p Batch	: 9911
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.07836		mg/Kg		78	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.09275		mg/Kg		92	70 - 130	22	35
Ethylbenzene	<0.00199	U	0.100	0.09852		mg/Kg		99	70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1818		mg/Kg		91	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.09965		mg/Kg		99	70 _ 130	27	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								

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

Lab Sample ID: MB 880-9627/1-A Matrix: Solid Analysis Batch: 9621	МВ	МВ						Client Sa	ample ID: Metho Prep Type: ⁻ Prep Bato	Total/NA
Analyte		Qualifier	RL		Unit		D P	repared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
	MB	МВ								
Surrogate	%Recovery	Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/1	18/21 07:49	10/18/21 11:23	1
o-Terphenyl	109		70 - 130				10/1	18/21 07:49	10/18/21 11:23	1
Lab Sample ID: LCS 880-9627/2-A Matrix: Solid Analysis Batch: 9621							Client	t Sample	ID: Lab Control Prep Type: ⁻ Prep Bate	Total/NA
			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10			1000	761.6		mg/Kg		76	70 - 130	
Diesel Range Organics (Over C10-C28)			1000	774.5		mg/Kg		77	70 ₋ 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	92		70 - 130

Job ID: 890-1431-1 SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 9911

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Matrix Spike Duplicate** 

Lab Sample ID: LCSD 880-9627/3-A

### **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1431-1 SDG: 31402909.130

Client Sample ID: Lab Control Sample Dup

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

Lab Sample ID: LCSD 880-962	// <b>3-</b> A							U U	ient	Sam	ipie iD: L	ab Contro			
Matrix: Solid												Prep 1	Type: To	otal/N	Α
Analysis Batch: 9621												Pre	p Batc	h: 962	27
				Spike		LCSD	LCSD					%Rec.		RF	סי
Analyte				Added		Result	Qualifier	Unit		D	%Rec	Limits	RPD	Lin	nit
Gasoline Range Organics (GRO)-C6-C10				1000		798.9		mg/Kg			80	70 - 130	5	2	20
Diesel Range Organics (Over C10-C28)				1000		813.4		mg/Kg			81	70 - 130	5	2	20
	LCSD	LCS	D												
Surrogate	%Recovery	Qua	lifier	Limits	_										
1-Chlorooctane	84			70 - 130											
o-Terphenyl	93			70 - 130											
Lab Sample ID: 890-1431-1 MS	;											Client Sar	mple IC	): PH(	)5
Matrix: Solid												Prep 1	Type: To	otal/N	Α
Analysis Batch: 9621													p Batc		
	Sample	Sam	ple	Spike		MS	MS					%Rec.			
Analyte	Result	Qua	lifier	Added		Result	Qualifier	Unit		D	%Rec	Limits			
Gasoline Range Organics (GRO)-C6-C10	855			997		1649		mg/Kg			80	70 - 130			_
Diesel Range Organics (Over C10-C28)	4410			997		4685	4	mg/Kg			28	70 - 130			
	MS	мs													
Surrogate	%Recovery	Qua	lifier	Limits											
1-Chlorooctane	113			70 - 130	-										
o-Terphenyl	58	S1-		70 - 130											
-	_														
Lab Sample ID: 890-1431-1 MS	D											Client Sar			
Matrix: Solid													Type: T		
Analysis Batch: 9621		_											p Batc		
	Sample		•	Spike			MSD					%Rec.		RF	
Analyte	Result	Qua	lifier	Added			Qualifier			<u>D</u>	%Rec	Limits	RPD	Lin	
Gasoline Range Organics (GRO)-C6-C10	855			998		1689		mg/Kg			84	70 - 130	2		20
Diesel Range Organics (Over C10-C28)	4410			998		5064	4	mg/Kg			66	70 - 130	8	2	20
	MSD	MSL	<b>)</b>												
Surrogate	%Recovery	Qua	lifier	Limits	_										
1-Chlorooctane	121			70 - 130	-										
o-Terphenyl	65	S1-		70 - 130											
- Lab Sample ID: MB 880-9834/1	- <b>A</b>										Client Sa	ample ID:	Methor	d Blar	۱k
Matrix: Solid													Type: To		
Analysis Batch: 9827													p Batc		
• • •	_		MB						_	_					
Analyte			Qualifier				Un		<u>D</u>		repared	Analyz		Dil Fa	
Gasoline Range Organics (GRO)-C6-C10		<50.0			50.0			/Kg			9/21 09:45	10/19/21			1
Diesel Range Organics (Over C10-C28)	•	<50.0	U		50.0		mg	/Kg		10/1	9/21 09:45	10/19/21	10:56		1
Oll Range Organics (Over C28-C36)	•	<50.0	U		50.0		mg	/Kg		10/1	9/21 09:45	10/19/21	10:56		1

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

### Job ID: 890-1431-1 SDG: 31402909.130

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

Lab Sample ID: MB 880-9834/1-	- <b>A</b>							Client S	ample ID: I		
Matrix: Solid									Prep T	уре: То	tal/N/
Analysis Batch: 9827									Pre	p Batch	1: 983
		MB MB									
Surrogate	%Reco	very Qualifier	Limits				P	repared	Analyz	ed	Dil Fa
1-Chlorooctane		101 <u>quanter</u>	70 - 130					9/21 09:45			Diria
o-Terphenyl		116	70 - 130					9/21 09:45			
			10 - 100				10/1	0,21 00.10	10,10,21	10.00	
Lab Sample ID: LCS 880-9834/2	2-A						Client	Sample	ID: Lab Co	ontrol S	ampl
Matrix: Solid										ype: To	
Analysis Batch: 9827										p Batch	
			Spike	LCS	LCS				%Rec.		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics			1000	822.9		mg/Kg		82	70 - 130		
(GRO)-C6-C10											
Diesel Range Organics (Over			1000	1015		mg/Kg		101	70 - 130		
C10-C28)											
	LCS	LCS									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	94		70 - 130								
o-Terphenyl	96		70 - 130								
Lab Sample ID: LCSD 880-9834	4/3-A					Clie	ent Sam	nple ID: L	ab Contro	I Sampl	le Du
	4/3-A					Clie	ent Sam	nple ID: L		l Sampl ype: To	
Matrix: Solid	4/3-A					Clie	ent Sam	nple ID: L	Prep T		tal/N
Matrix: Solid	4/3-A		Spike	LCSD	LCSD	Clie	ent Sam	nple ID: L	Prep T	ype: To	tal/N/
Matrix: Solid Analysis Batch: 9827	4/3-A		Spike Added		LCSD Qualifier	Clie	ent Sam	nple ID: L	Prep T Pre	ype: To	tal/N/ 1: 983 RPI
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics	4/3-A		-						Prep T Pre %Rec.	ype: To p Batch	otal/N/ 1:983 RPI Lim
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10	4/3-A		Added	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Lab Sample ID: LCSD 880-9834 Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	4/3-A 		Added	Result		Unit		%Rec	Prep T Pre %Rec. Limits	ype: To p Batch	etal/N/ : 9834 RPI Limi
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10	4/3-A 		Added	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	etal/N/ : 9834 RPI Limi
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	4/3-A		Added	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	20141/N/ 1: 9834 RPI Limi
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCSD		Added	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	20141/N/ 1: 9834 RPI Limi
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCSD		Added 1000 1000	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	tal/N
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery		Added 1000 1000 <i>Limits</i>	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	20141/N/ 1: 9834 RPI Limi
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCSD %Recovery 86		Added 1000 1000 Limits 70 - 130	Result 825.7		_ <mark>Unit</mark> mg/Kg			Prep T Pre %Rec. Limits 70 - 130	ype: To p Batch 	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D	LCSD %Recovery 86 89		Added 1000 1000 Limits 70 - 130	Result 825.7		_ <mark>Unit</mark> mg/Kg		- % <b>Rec</b> 83 - 97	Prep T           %Rec.           Limits           70 - 130           70 - 130	ype: To p Batch RPD 0 5	2 Spike
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCSD %Recovery 86 89		Added 1000 1000 Limits 70 - 130	Result 825.7		_ <mark>Unit</mark> mg/Kg		- % <b>Rec</b> 83 - 97	Prep T           %Rec.           Limits           70 - 130           70 - 130	ype: To p Batch RPD 0 5	2 Spike
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D	LCSD %Recovery 86 89		Added 1000 1000 Limits 70 - 130	Result 825.7		_ <mark>Unit</mark> mg/Kg		- % <b>Rec</b> 83 - 97	Prep T           %Rec.           Limits           70 - 130           70 - 130           Sample ID:           Prep T	ype: To p Batch RPD 0 5	spiko Spiko
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid	LCSD %Recovery 86 89	Qualifier	Added 1000 1000 Limits 70 - 130	<b>Result</b> 825.7 965.7		_ <mark>Unit</mark> mg/Kg		- % <b>Rec</b> 83 - 97	Prep T           %Rec.           Limits           70 - 130           70 - 130           Sample ID:           Prep T	ype: To p Batch RPD 0 5 : Matrix ype: To	2 Spiko Spiko
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827	LCSD %Recovery 86 89 D MS Sample	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 825.7 965.7 MS	Qualifier	_ <mark>Unit</mark> mg/Kg		- % <b>Rec</b> 83 - 97	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           Sample ID:           Prep T           Prep T	ype: To p Batch RPD 0 5 : Matrix ype: To	2 Spiko Spiko
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics	LCSD %Recovery 86 89 D MS Sample	Qualifier Sample	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 825.7 965.7 MS	Qualifier	– <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 83 97 Client	Prep T           Pre           %Rec.           Limits           70 - 130           70 - 130           Sample ID:           Prep T           Prep T           %Rec.	ype: To p Batch RPD 0 5 : Matrix ype: To	spiko Spiko
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics	LCSD %Recovery 86 89 D MS Sample Result	Qualifier Sample	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 825.7 965.7 MS Result	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 83 97 Client 5	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To p Batch RPD 0 5 : Matrix ype: To	spik
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827 Analyte	LCSD %Recovery 86 89 D MS Sample Result	Qualifier	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 825.7 965.7 MS Result	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 83 97 Client 5	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To p Batch RPD 0 5 : Matrix ype: To	2 Spiko Spiko
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terpheny/ Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10	LCSD %Recovery 86 89 D MS Sample Result 3310 MS	Qualifier Sample Qualifier MS	Added           1000           1000           1000           Limits           70 - 130           70 - 130           Spike           Added           998	Result 825.7 965.7 MS Result	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 83 97 Client 5	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To p Batch RPD 0 5 : Matrix ype: To	spike
Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1428-A-3-D Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics	LCSD %Recovery 86 89 D MS Sample Result 3310 MS %Recovery	Qualifier Sample Qualifier MS	Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 825.7 965.7 MS Result	Qualifier	_ <mark>Unit</mark> mg/Kg mg/Kg	<u>D</u>	%Rec 83 97 Client 5	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 1	ype: To p Batch RPD 0 5 : Matrix ype: To	spike

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### **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

Lab Sample ID: 890-1428-A-3-E M	SD							Client	San	nple ID	: Matrix Sp	ike Dup	olicate
Matrix: Solid											Prep T	ype: To	tal/N/
Analysis Batch: 9827											Prep	Batch	: <mark>983</mark>
	Sample	Sample	Spike		MSD	MSD					%Rec.		RP
Analyte	Result	Qualifier	Added	F	Result	Qualifier	Unit	D	)	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10	3310		1000		4491		mg/Kg			118	70 - 130	6	2
	MSD	MSD											
Surrogate	%Recovery	Qualifier	Limits										
1-Chlorooctane	268	S1+	70 - 130	-									
o-Terphenyl	203	S1+	70 - 130										
lethod: 300.0 - Anions, Ion C	hromat	ography											
Lab Sample ID: MB 880-9752/1-A									C	lient S	ample ID: N	/lethod	Blan
Matrix: Solid											Prep 1	Гуре: S	olubl
Analysis Batch: 9997													
		MB MB											
Analyte		esult Qualifier		RL		Unit		D	Pre	pared	Analyze		Dil Fa
Chloride	<	<5.00 U		5.00		mg/K	g				10/20/21 1	4:14	
								0					
Lab Sample ID: LCS 880-9752/2-A								Cilei	nt a	sample	ID: Lab Co		
Matrix: Solid											Prep	Гуре: S	olubi
Analysis Batch: 9997			Spike		1.09	LCS					%Rec.		
Analyte			Added			Qualifier	Unit	D		%Rec	Limits		
Chloride			250		231.7	Quaimer	mg/Kg			93	90 - 110		
			200		201.7		mg/itg			30	30 - 110		
Lab Sample ID: LCSD 880-9752/3-	A						Cli	ent Sa	mp	le ID: L	ab Control	Sampl	le Dur
Matrix: Solid												Type: S	
Analysis Batch: 9997													
-			Spike		LCSD	LCSD					%Rec.		RPI
Analyte			Added	F	Result	Qualifier	Unit	D	)	%Rec	Limits	RPD	Limi
Chloride			250		229.5		mg/Kg			92	90 - 110	1	20
- Lab Sample ID: 890-1430-A-1-E M	S									Client	Sample ID:	Matrix	Spik
Matrix: Solid											Prep 1	Гуре: S	olubl
Analysis Batch: 9997													
	Sample	Sample	Spike		MS	MS					%Rec.		
Analyte		Qualifier	Added	F	Result	Qualifier	Unit	D	)	%Rec	Limits		
Chloride	469	F1	248		662.6	F1	mg/Kg			78	90 - 110		
Lab Sample ID: 890-1430-A-1-F M	SD						•	Client	San	nple ID	: Matrix Sp		
Matrix: Solid											Prep	Гуре: S	olubl

Analysis Batch: 9997											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	469	F1	248	699.2		mg/Kg		93	90 _ 110	5	20

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

5

8

### Job ID: 890-1431-1 SDG: 31402909.130

GC VOA

### Prep Batch: 9747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-9747/5-A	Method Blank	Total/NA	Solid	5035	
Prep Batch: 9748					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	5035	
890-1431-2	PH05A	Total/NA	Solid	5035	
890-1431-3	PH05B	Total/NA	Solid	5035	
890-1431-4	PH05C	Total/NA	Solid	5035	
MB 880-9748/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1428-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Lab Sample ID **Client Sample ID** Prep Type Matrix Method Prep Batch 890-1431-1 PH05 Total/NA 8021B Solid 9748 890-1431-2 PH05A Total/NA Solid 8021B 9748 890-1431-3 PH05B Total/NA Solid 8021B 9748 890-1431-4 PH05C Total/NA Solid 8021B 9748 MB 880-9747/5-A Method Blank Total/NA Solid 8021B 9747 MB 880-9748/5-A Method Blank Total/NA Solid 8021B 9748 LCS 880-9748/1-A Lab Control Sample Total/NA Solid 8021B 9748 LCSD 880-9748/2-A Lab Control Sample Dup Total/NA Solid 8021B 9748 Total/NA Solid 8021B 9748 890-1428-A-1-C MS Matrix Spike 890-1428-A-1-D MSD Matrix Spike Duplicate Total/NA Solid 8021B 9748

### Prep Batch: 9911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	5035	
890-1431-2	PH05A	Total/NA	Solid	5035	
890-1431-3	PH05B	Total/NA	Solid	5035	
MB 880-9911/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 10084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	8021B	9911
890-1431-2	PH05A	Total/NA	Solid	8021B	9911
890-1431-3	PH05B	Total/NA	Solid	8021B	9911
MB 880-9911/5-A	Method Blank	Total/NA	Solid	8021B	9911
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	8021B	9911
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9911
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	9911
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9911

### **QC** Association Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

8

Job ID: 890-1431-1 SDG: 31402909.130

### **GC VOA**

### Analysis Batch: 10147

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	Total BTEX	
890-1431-2	PH05A	Total/NA	Solid	Total BTEX	
890-1431-3	PH05B	Total/NA	Solid	Total BTEX	
890-1431-4	PH05C	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Analysis Batch: 9621

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	8015B NM	9627
890-1431-2	PH05A	Total/NA	Solid	8015B NM	9627
890-1431-4	PH05C	Total/NA	Solid	8015B NM	9627
MB 880-9627/1-A	Method Blank	Total/NA	Solid	8015B NM	9627
LCS 880-9627/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9627
LCSD 880-9627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9627
890-1431-1 MS	PH05	Total/NA	Solid	8015B NM	9627
890-1431-1 MSD	PH05	Total/NA	Solid	8015B NM	9627

### Prep Batch: 9627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-1	PH05	Total/NA	Solid	8015NM Prep	
890-1431-2	PH05A	Total/NA	Solid	8015NM Prep	
890-1431-4	PH05C	Total/NA	Solid	8015NM Prep	
MB 880-9627/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9627/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1431-1 MS	PH05	Total/NA	Solid	8015NM Prep	
890-1431-1 MSD	PH05	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 9827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-3	PH05B	Total/NA	Solid	8015B NM	9834
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015B NM	9834
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9834
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9834
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	9834
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9834

### Prep Batch: 9834

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1431-3	PH05B	Total/NA	Solid	8015NM Prep	
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# Lab Sample IDClient Sample IDPrep TypeMatrixMethodPrep E890-1431-1PH05Total/NASolid8015 NM890-1431-2PH05ATotal/NASolid8015 NM

Page 239 of 286

5

SDG: 31402909.130

### Project/Site: Azores Fed Com 4H GC Semi VOA (Continued)

Client: WSP USA Inc.

### Analysis Batch: 10003 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-3	PH05B	Total/NA	Solid	8015 NM	
890-1431-4	PH05C	Total/NA	Solid	8015 NM	
L					

### HPLC/IC

### Leach Batch: 9752

Г						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1431-1	PH05	Soluble	Solid	DI Leach		8
890-1431-2	PH05A	Soluble	Solid	DI Leach		Ŭ
890-1431-3	PH05B	Soluble	Solid	DI Leach		Q
890-1431-4	PH05C	Soluble	Solid	DI Leach		
MB 880-9752/1-A	Method Blank	Soluble	Solid	DI Leach		
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	DI Leach		
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach		
890-1430-A-1-E MS	Matrix Spike	Soluble	Solid	DI Leach		
890-1430-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach		
Analysis Batch: 9997						
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	13
890-1431-1	 PH05	Soluble	Solid	300.0	9752	

### Analysis Batch: 9997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1431-1	PH05	Soluble	Solid	300.0	9752
890-1431-2	PH05A	Soluble	Solid	300.0	9752
890-1431-3	PH05B	Soluble	Solid	300.0	9752
890-1431-4	PH05C	Soluble	Solid	300.0	9752
MB 880-9752/1-A	Method Blank	Soluble	Solid	300.0	9752
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	300.0	9752
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9752
890-1430-A-1-E MS	Matrix Spike	Soluble	Solid	300.0	9752
890-1430-A-1-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	9752

Job ID: 890-1431-1

Job ID: 890-1431-1 SDG: 31402909.130

### Lab Sample ID: 890-1431-1 Matrix: Solid

Lab Sample ID: 890-1431-2

Lab Sample ID: 890-1431-3

Matrix: Solid

Matrix: Solid

Client Sample ID: PH05 Date Collected: 10/08/21 15:12 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 20:59	MR	XEN MID
Total/NA	Prep	5035			5.05 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 04:01	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 12:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 15:18	CH	XEN MID

### **Client Sample ID: PH05A**

Date Collected: 10/08/21 15:14 Date Received: 10/14/21 12:12

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 21:19	MR	XEN MID
Total/NA	Prep	5035			4.96 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 04:21	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 13:53	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 15:39	СН	XEN MID

### **Client Sample ID: PH05B** Date Collected: 10/08/21 15:17 Date Received: 10/14/21 12:12

	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	9911	10/19/21 15:07	KL	XEN MIC
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 21:40	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 04:41	KL	XEN MI
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MI
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 13:06	AJ	XEN MI
Soluble	Leach	DI Leach			5.01 g	50 mL	9752	10/18/21 14:13	CA	XEN MI
Soluble	Analysis	300.0		1			9997	10/20/21 15:47	СН	XEN MID

Eurofins Xenco, Carlsbad

5 6

Job ID: 890-1431-1 SDG: 31402909.130

### Lab Sample ID: 890-1431-4 Matrix: Solid

Client Sample ID: PH05C Date Collected: 10/08/21 15:23 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 06:04	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 14:22	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 15:54	СН	XEN MID

### Laboratory References:

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

Eurofins Xenco, Carlsbad

**Released to Imaging: 4/27/2022 11:07:44 AM** 

10

### Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1431-1 SDG: 31402909.130

### Laboratory: Eurofins Xenco, Midland

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

uthority	Pr	ogram	Identification Number	Expiration Date
xas	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report by	it the laboratory is not certif	ied by the governing authority. This list ma	w include analytes for w
the agency does not o	fer certification.	·		
• ,		Matrix	Analyte	
the agency does not o	fer certification.	·		

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

Job ID: 890-1431-1 SDG: 31402909.130

Method	Method Description	Protocol	Laboratory
3021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Fotal BTEX	Total BTEX Calculation	TAL SOP	XEN MID
3015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
3015B 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
3015NM Prep	Microextraction	SW846	XEN MID
OI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

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

### Job ID: 890-1431-1 SDG: 31402909.130

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Client Sample ID	Matrix	Collected	Received	Depth	
PH05	Solid	10/08/21 15:12	10/14/21 12:12	1	- 4
PH05A	Solid	10/08/21 15:14	10/14/21 12:12	2	
PH05B	Solid	10/08/21 15:17	10/14/21 12:12	3	5
PH05C	Solid	10/08/21 15:23	10/14/21 12:12	4	J
					8
					9
					12
					_
	PH05A PH05B	PH05     Solid       PH05A     Solid       PH05B     Solid	PH05         Solid         10/08/21 15:12           PH05A         Solid         10/08/21 15:14           PH05B         Solid         10/08/21 15:17	PH05         Solid         10/08/21 15:12         10/14/21 12:12           PH05A         Solid         10/08/21 15:14         10/14/21 12:12           PH05B         Solid         10/08/21 15:17         10/14/21 12:12	PH05         Solid         10/08/21 15:12         10/14/21 12:12         1           PH05A         Solid         10/08/21 15:14         10/14/21 12:12         2           PH05B         Solid         10/08/21 15:17         10/14/21 12:12         3



5

Chain of Custody Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Anlonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 565-3443, Lubbock, TX (806) 794-1296

13

Work Order No:

# Received by OCD: 3/18/2022 1:35:11 PM

Eurofins Xenco, Carlsbad																					3					
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Phone 575-988-3199 Fax. 575-988-3199																						2	AIIICIICA			
Client Information (Sub Contract Lab)	Sampler			Lab PM Krame	Lab PM Kramer Jessica	sica						0	Carrier Tracking No(s):	rackir	ig No	s):			<u></u>	COC No 890-463 1	° 63 1					
	Phone [.]			E-Mail jessic	Mail essica.kramer@eurofinset.com	)er@e	urofi	nset	Som			zφ	State of Origin: New Mexico	Origin	0				<del></del>	Page: Page	Page: Page 1 of 1					
Company Eurofins Xenco					Accreditations Required (See note NELAP - Louisiana, NELAP	ations F	Requin	ed (Se	e note	, × ×	Texas	ŀ							<u>ی</u> د	Job #: 890-1-	Job # [.] 890-1431-1					
Address 1211 W Florida Ave	Due Date Requested 10/20/2021	ă							Ana	ilvsi	lysis Requested	equ	este	٩						resei	Preservation Codes	odes			I	
City Midland	TAT Requested (days):	iys):								<u></u>				-				A.	allow low	Nac	HCL NaOH Zn Acetate	) z z	Hexar None	_{ರ ಹ}		
State, Zip [.] TX, 79701								<u></u>				<u></u>	<u></u>						91933 XIB	Nal	D Nitric Acid E - NaHSO4	0 T (	Na2O- Na2S(	ដង់	P Na204S Q Na2SO3	
Phone 432-704-5440(Tel)	PO #				)	трн	le											AMA	<u> </u>	L G F A m	MeOH Amchlor Aeronhin Anid		Na2S: H2SO	<u>2</u> 03	hudrat	•
Email:	WO #					p Full	Chlorid											2007 s	5,609,11999	_	lce DI Water		U Acetone V - MCAA	le	a gener	
Project Name: Azores Fed Corn 4H	Project # 89000048					_S_Pro	EACH	ΈX												K EDTA	A	Z-2	W pH 4-5 Z - other (specify)	5 specifi	Y)	
	SSOW#:					015NM	BD/DI_L		×							<u> </u>				Other:						
		Sample	Sample Type (C=comp,	Matrix (W=water S=solid, 0=waste/oil,	eld Filtered erform MS/N	15MOD_NM/8	0_ORGFM_2	21B/5035FP_	tal_BTEX_GO	15MOD_Calc									tal Number							
	$\mathbb{N}$	X	Preservation Code:	inter	201.000 C	e	3	n palla Ki	-	8	<u>26.</u>		in.				and -		XP							
PH05 (890-1431-1)	10/8/21	15 12 Mountain		Solid		×	×	×	×	×								U. AMET S								
PH05A (880-1431-2)	10/8/21	15 14 Mountain		Solid		×	×	×	×	×								86.0078000	<u>.</u>							
PH05C (890-1431-4)	10/8/21	15 23 Mountain		Solid		×	×	×	×	×									4							
																		10000	222							
										+	-+		-+	-+												
								<u> </u>	<u> </u>	$\left  \right $								81. 188° - 5								
																		- ACHIER	43							
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 analysistestsmatrix 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 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 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 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.	laces the ownership ping analyzed, the sa	of method and amples must be	alyte & accredita shipped back	ation compliance to the Eurofins	e upon c Xenco L	LC lab	contra	ct labo	bratorie her ins	tructio	ns wil	1ple s	nipme	ntis fo	)rward	led ur	)der c	hain-	of-cu	stody status	If the labo should be	oratory di brought t	oes no	rt curre ofins X	rently Xenco LLC	TC
Possible Hazard Identification					Sai	mple	Disp	osal	(Af	ee m	age 1	eas	ess	d if	sam	ples	are	reta	line	d lon	Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month)	n 1 mo.	nth)			
Deliverable Requested 1, II III IV Other (specify)	Primary Deliverable Rank	able Rank 2	2		S	Special Instructions/QC	al Instructions/QC	ction	s/QC		Requirements	nent	ents	5	5						9		CUDID14	10		
Empty Kit Relinquished by		Date			Time		>							Method of Shipment.	of Sh	ipmer	Ĩ.									
Relinquished by (luclud 10.14.2	Date/Time:			Company		Recei	da b		b	R	기	$\mathcal{O}$	M			Date/Time	$\mathcal{O}_{\mathfrak{g}}$	In	$\sigma$	V		S	Company			
Relinquished by	Date/Time			Company		Rece	fived by	۱۲ ۲								Date/Time	me			5	p 1	8	Company			
Relinguished by	Date/Time			Company		Rećei	Rećeived by	r.								Date/Time:	me:					S	Company			
Custody Seals Intact. Custody Seal No ∆ Yes ∆ No						Coole	Cooler Temperature(s) °C	peratu	re(s) °	Cand	and Other Remarks.	- Rem	arks.	3		${\mathbb W}$	01	γ	3							
															1							Ve	Ver 06/08/2021	/08/20	021	

Job Number: 890-1431-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1431 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	

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

### Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1431 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1431-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland List Creation: 10/15/21 12:19 PM Received by OCD: 3/18/2022 1:35:11 PM

# ²⁸⁶ 1 2 3 4 5 6 7 8 9 10 11 12 13

🔅 eurofins

# Environment Testing America

# ANALYTICAL REPORT

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

# Laboratory Job ID: 890-1432-1

Laboratory Sample Delivery Group: 31402909.130 Client Project/Site: Azores Fed Com 4H

# For:

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

Attn: Kalei Jennings

RAMER

Authorized for release by: 10/22/2021 4:12:28 PM Jessica Kramer, Project Manager

(432)704-5440 jessica.kramer@eurofinset.com

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

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

Visit us at: www.eurofinsus.com/Env Released to Imaging: 4/27/2022 11:07:44 AM

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The

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•

Laboratory Job ID: 890-1432-1 SDG: 31402909.130

# **Table of Contents**

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	18
Lab Chronicle	21
Certification Summary	23
Method Summary	24
Sample Summary	25
Chain of Custody	26
Receipt Checklists	28

2

3

	Definitions/Glossary	
	-	Jah ID: 000 4400
Client: WSP		Job ID: 890-1432- SDG: 31402909.130
Project/Site.	Azores Fed Com 4H	5DG. 51402909.150
Qualifiers		
GC VOA		
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, con	ntrol limits are not
	applicable.	
F1	MS and/or MSD recovery exceeds control limits.	
S1-	Surrogate recovery exceeds control limits, low biased.	
S1+	Surrogate recovery exceeds control limits, high biased.	
U	Indicates the analyte was analyzed for but not detected.	
GC Semi VO	Α	
Qualifier	Qualifier Description	
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, con	ntrol limits are not
S1-	applicable. Surrogate recovery exceeds control limits, low biased.	
S1- S1+	Surrogate recovery exceeds control limits, low blased.	
U	Indicates the analyte was analyzed for but not detected.	
	Our life an De a suis étair	
Qualifier F1	Qualifier Description 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.	
α	Listed under the "D" column to designate that the result is reported on a dry weight basis	
%R	Percent Recovery	
CFL	Contains Free Liquid	
CFU	Colony Forming Unit	
	Containe No Free Linuid	

- CNF Contains No Free Liquid DER Duplicate Error Ratio (normalized absolute difference)
- 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) Limit of Detection (DoD/DOE) LOD
- Limit of Quantitation (DoD/DOE) LOQ 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 Not Detected at the reporting limit (or MDL or EDL if shown) ND
- NEG Negative / Absent
- POS Positive / Present
- Practical Quantitation Limit PQL PRES Presumptive
- QC Quality Control
- RFR 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)

3

### **Definitions/Glossary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1432-1 SDG: 31402909.130

Glossary (	Continued)
Abbreviation	These commonly used abbreviations may or may not be present in this report.
TNTC	Too Numerous To Count
### Job ID: 890-1432-1 SDG: 31402909.130

### Job ID: 890-1432-1

Client: WSP USA Inc.

### Laboratory: Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

### Narrative

Job Narrative 890-1432-1

### Receipt

The samples were received on 10/14/2021 12:12 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.2°C

### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9748 and analytical batch 880-9846 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following samples were outside control limits: PH01 (890-1432-1), PH01A (890-1432-2), PH01B (890-1432-3), PH01C (890-1432-4) and (890-1428-A-1-E). Evidence of matrix interferences is not obvious.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-9911 and analytical batch 880-10084 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: Surrogate recovery for the following sample was outside control limits: (890-1434-A-1-D). Evidence of matrix interferences is not obvious.

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

### GC Semi VOA

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1431-A-1-B MS) and (890-1431-A-1-C MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD_NM: Surrogate recovery for the following samples were outside control limits: (890-1428-A-3-C), (890-1428-A-3-D MS) and (890-1428-A-3-E MSD). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-9752 and analytical batch 880-9997 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

RL

0.00201

Unit

mg/Kg

D

Prepared

10/18/21 14:06

Job ID: 890-1432-1 SDG: 31402909,130

# **Client Sample ID: PH01**

Method: 8021B - Volatile Organic Compounds (GC)

Result Qualifier

0.251

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 09:42 Date Received: 10/14/21 12:12

Sample Depth: 1

Analyte

Benzene

**Xylenes**, Total

4-Bromofluorobenzene (Surr)

Surrogate

Client: WSP USA Inc.

0	50.	51402303.10
Lab Sample	ID:	890-1432-

Analyzed

10/20/21 06:24

Matrix: Solie

53.150	
432-1 Solid	3
	4
	5
Dil Fac	
1	6
1	
1	7
1	
100	8
100	0
Dil Fac	9
1 1	10
Dil Fac	11
1	12
Dil Fac	13
1	14

100

1

Dil Fac

Delizene	0.251		0.00201	ing/itg		10/10/21 14.00	10/20/21 00.24	
Toluene	0.251		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:24	1
Ethylbenzene	0.297		0.00201	mg/Kg		10/18/21 14:06	10/20/21 06:24	1
m-Xylene & p-Xylene	0.114		0.00402	mg/Kg		10/18/21 14:06	10/20/21 06:24	1
o-Xylene	8.55		0.201	mg/Kg		10/19/21 15:07	10/21/21 22:00	100
Xylenes, Total	18.1		0.402	mg/Kg		10/19/21 15:07	10/21/21 22:00	100
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	936	S1+	70 - 130			10/18/21 14:06	10/20/21 06:24	1
1,4-Difluorobenzene (Surr)	42	S1-	70 - 130			10/18/21 14:06	10/20/21 06:24	1
Method: Total BTEX - Total BTEX	Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	9.46		0.00402	mg/Kg			10/21/21 17:04	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	5620		49.9	mg/Kg			10/20/21 13:58	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	915		49.9	mg/Kg		10/18/21 07:49	10/18/21 14:52	1
Diesel Range Organics (Over C10-C28)	4700		49.9	mg/Kg		10/18/21 07:49	10/18/21 14:52	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/18/21 07:49	10/18/21 14:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			10/18/21 07:49	10/18/21 14:52	1
o-Terphenyl	80		70 - 130			10/18/21 07:49	10/18/21 14:52	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	428		5.05	mg/Kg			10/20/21 16:01	1
lient Sample ID: PH01A						Lab Sar	nple ID: 890-	1432-2
Pate Collected: 10/08/21 09:48							Matri	x: Solid
Date Received: 10/14/21 12:12 Sample Depth: 3								
• •	0							
Method: 8021B - Volatile Organic Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.0303		0.00200	mg/Kg		10/18/21 14:06	10/20/21 06:44	1
Toluene	2.49		0.200	mg/Kg		10/19/21 15:07	10/21/21 22:20	100
Ethylbenzene	0.367		0.00200	mg/Kg		10/18/21 14:06	10/20/21 06:44	1
m-Xylene & p-Xylene	0.0787		0.00399	mg/Kg		10/18/21 14:06	10/20/21 06:44	1
o-Xylene	7.90		0.200	mg/Kg		10/19/21 15:07	10/21/21 22:20	100
-				5 5				

10/21/21 22:20

Analyzed

10/20/21 06:44

Eurofins Xenco, Carlsbad

10/19/21 15:07

Prepared

10/18/21 14:06

Released to Imaging: 4/27/2022 11:07:44 AM

0.399

Limits

70 - 130

14.2

%Recovery Qualifier

751 S1+ mg/Kg

10/22/2021

Project/Site: Azores Fed Com 4H

**Client Sample ID: PH01A** 

# **Client Sample Results**

Job ID: 890-1432-1 SDG: 31402909.130

# Lab Sample ID: 890-1432-2

Matrix: Solid

5

Date Collected: 10/08/21 09:48 Date Received: 10/14/21 12:12

Client: WSP USA Inc.

Sample Depth: 3

Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1,4-Difluorobenzene (Surr)		S1-	70 - 130			10/18/21 14:06	10/20/21 06:44	
Method: Total BTEX - Total BTEX	Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	10.9		0.00399	mg/Kg			10/21/21 17:04	
Method: 8015 NM - Diesel Range	• Organics (DR	0) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	5570		49.8	mg/Kg			10/20/21 13:58	
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1070		49.8	mg/Kg		10/18/21 07:49	10/18/21 15:25	
Diesel Range Organics (Over C10-C28)	4500		49.8	mg/Kg		10/18/21 07:49	10/18/21 15:25	
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		10/18/21 07:49	10/18/21 15:25	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane			70 - 130			10/18/21 07:49	10/18/21 15:25	
o-Terphenyl	85		70 - 130			10/18/21 07:49	10/18/21 15:25	
Chloride	655		5.00	mg/Kg			10/20/21 16:08	
lient Sample ID: PH01B						Lab San	nple ID: 890-	
ate Collected: 10/08/21 10:03 ate Received: 10/14/21 12:12							Matri	x: Soli
ample Depth: 6								
Method: 8021B - Volatile Organio								
Method: 8021B - Volatile Organio	Result	GC) Qualifier	RL	Unit	D	Prepared	Analyzed	
Method: 8021B - Volatile Organio Analyte Benzene	Result 0.0223		0.00200	mg/Kg	<u>D</u>	10/18/21 14:06	10/20/21 07:05	Dil Fa
Method: 8021B - Volatile Organic Analyte Benzene	Result 0.0223 6.39		0.00200	mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41	10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene	Result 0.0223		0.00200 0.198 0.198	mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41	10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene	Result 0.0223 6.39 4.81 27.1		0.00200 0.198 0.198 0.397	mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41	10 10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 0.0223 6.39 4.81 27.1 12.6		0.00200 0.198 0.198 0.397 0.198	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41	10 10 10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene	Result 0.0223 6.39 4.81 27.1		0.00200 0.198 0.198 0.397	mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41	10 10 10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery	Qualifier	0.00200 0.198 0.198 0.397 0.198 0.397 Limits	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 <b>Analyzed</b>	10 10 10 10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery	Qualifier	0.00200 0.198 0.198 0.397 0.198 0.397	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41	10 10 10 10 10
Method: 8021B - Volatile Organio Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr)	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery 485	Qualifier	0.00200 0.198 0.198 0.397 0.198 0.397 Limits	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 <b>Prepared</b>	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 <b>Analyzed</b>	10 10 10 10 10
Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery 485 67	Qualifier Qualifier S1+	0.00200 0.198 0.397 0.198 0.397 0.198 0.397 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u> </u>	10/18/21         14:06           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07	10/20/21 07:05           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41	10 10 10 10 10
Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTE)	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery 485 67 X Calculation	Qualifier Qualifier S1+	0.00200 0.198 0.397 0.198 0.397 0.198 0.397 <i>Limits</i> 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	<u>D</u>	10/18/21         14:06           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07           10/19/21         15:07	10/20/21 07:05           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41           10/21/21 22:41	
Method: 8021B - Volatile Organic Analyte Benzene Toluene Ethylbenzene m-Xylene & p-Xylene o-Xylene Xylenes, Total Surrogate 4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: Total BTEX - Total BTE) Analyte	Result 0.0223 6.39 4.81 27.1 12.6 39.7 %Recovery 485 67 X Calculation	Qualifier Qualifier S1+ S1-	0.00200 0.198 0.397 0.198 0.397 0.198 0.397 <i>Limits</i> 70 - 130 70 - 130	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 <b>Prepared</b> 10/18/21 14:06 10/18/21 14:06	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 <b>Analyzed</b> 10/20/21 07:05 10/20/21 07:05	10 10 10 10 10 10 10
m-Xylene & p-Xylene o-Xylene Xylenes, Total	Result           0.0223           6.39           4.81           27.1           12.6           39.7           %Recovery           485           67           X Calculation           Result           50.9	Qualifier Qualifier S1+ S1- Qualifier	0.00200 0.198 0.397 0.198 0.397 0.198 0.397 <i>Limits</i> 70 - 130 70 - 130 RL	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		10/18/21 14:06 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 10/19/21 15:07 <b>Prepared</b> 10/18/21 14:06 10/18/21 14:06	10/20/21 07:05 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 10/21/21 22:41 <b>Analyzed</b> 10/20/21 07:05 10/20/21 07:05	11 11 11 11 11 11 11

Method: 8015 NM - Diesel Range Organics (DRO) (GC)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Total TPH	7270		49.9	mg/Kg			10/20/21 13:58	1			

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# **Client Sample Results**

Job ID: 890-1432-1 SDG: 31402909.130

# Client Sample ID: PH01B

Project/Site: Azores Fed Com 4H

Date Collected: 10/08/21 10:03 Date Received: 10/14/21 12:12

Sample Depth: 6

Client: WSP USA Inc.

Lab	Sample	ID:	890-14	32
			Matrix:	Sol

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	1100		49.9	mg/Kg	_	10/19/21 09:45	10/19/21 13:27	
Diesel Range Organics (Over C10-C28)	5310		49.9	mg/Kg		10/19/21 09:45	10/19/21 13:27	
Oll Range Organics (Over C28-C36)	858		49.9	mg/Kg		10/19/21 09:45	10/19/21 13:27	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	120		70 - 130			10/19/21 09:45	10/19/21 13:27	
p-Terphenyl	98		70 - 130			10/19/21 09:45	10/19/21 13:27	
Method: 300.0 - Anions, Ion Ch	romatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	911	F1	5.01	mg/Kg			10/20/21 16:15	
lient Sample ID: PH01C						Lab San	nple ID: 890-	1432-
ate Collected: 10/08/21 10:11							Matri	x: Soli
ate Received: 10/14/21 12:12								
ample Depth: 8								
Method: 8021B - Volatile Organ Analyte	-	(GC) Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	0.0217		0.00199	mg/Kg		10/18/21 14:06	10/20/21 07:25	
Toluene	1.65		0.200	mg/Kg		10/19/21 15:07	10/21/21 23:01	10
Ethylbenzene	2.77		0.200	mg/Kg		10/19/21 15:07	10/21/21 23:01	10
m-Xylene & p-Xylene	11.0		0.400	mg/Kg		10/19/21 15:07	10/21/21 23:01	10
o-Xylene	5.06		0.200	mg/Kg		10/19/21 15:07	10/21/21 23:01	10
Xylenes, Total	16.1		0.400	mg/Kg		10/19/21 15:07	10/21/21 23:01	10
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)			70 - 130			10/18/21 14:06	10/20/21 07:25	
1,4-Difluorobenzene (Surr)	115		70 - 130			10/18/21 14:06	10/20/21 07:25	
Method: Total BTEX - Total BTE	X Calculation							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	20.5		0.400	mg/Kg			10/21/21 17:04	
Method: 8015 NM - Diesel Rang	e Organics (DR	O) (GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	3280		50.0	mg/Kg			10/20/21 13:58	
Method: 8015B NM - Diesel Rar	ae Organics (D	RO) (GC)						
Analyte	• • •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics	562		50.0	mg/Kg		10/18/21 07:49	10/18/21 15:59	
(GRO)-C6-C10								
Diesel Range Organics (Over	2720		50.0	mg/Kg		10/18/21 07:49	10/18/21 15:59	

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		Clien	t Sample Re	sults				
Client: WSP USA Inc.							Job ID: 890	
Project/Site: Azores Fed Com 4H							SDG: 31402	909.130
Client Sample ID: PH01C						Lab San	nple ID: 890-	1432-4
Date Collected: 10/08/21 10:11							Matri	x: Solid
Date Received: 10/14/21 12:12								
Sample Depth: 8								
Method: 300.0 - Anions, Ion Chr Analyte		Soluble Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1870	Quanner	24.9	mg/Kg			10/20/21 16:37	5
								4 4 0 0 5
Client Sample ID: PH01D						Lab San	nple ID: 890-	
Date Collected: 10/08/21 10:25							Matri	x: Solid
Date Received: 10/14/21 12:12								
Sample Depth: 11								
Method: 8021B - Volatile Organi	c Compounds (	(GC)						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
Toluene	0.0151		0.00201	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
Ethylbenzene	0.00680		0.00201	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
m-Xylene & p-Xylene	0.0371		0.00402	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
o-Xylene	0.0209		0.00201	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
Xylenes, Total	0.0580		0.00402	mg/Kg		10/18/21 14:06	10/20/21 07:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130			10/18/21 14:06	10/20/21 07:46	1
1,4-Difluorobenzene (Surr)	102		70 - 130			10/18/21 14:06	10/20/21 07:46	1
	V Calculation							
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0799	quantor	0.00402	mg/Kg			10/22/21 12:40	1
Method: 8015 NM - Diesel Range			5.		_	- ·		
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	386		50.0	mg/Kg			10/20/21 13:58	I
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC)						
Analyte	·	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	130		50.0	mg/Kg		10/19/21 09:45	10/19/21 13:49	1
(GRO)-C6-C10 Diesel Range Organics (Over	256		50.0	mg/Kg		10/19/21 09:45	10/19/21 13:49	1
C10-C28)	200		50.0	ilig/Rg		10/19/21 09:43	10/19/21 13:49	I
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/19/21 09:45	10/19/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			10/19/21 09:45	10/19/21 13:49	1
o-Terphenyl	118		70 - 130			10/19/21 09:45	10/19/21 13:49	1
_ Method: 300.0 - Anions, Ion Chr	omatography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac

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

				Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1		
Lab Sample ID	Client Sample ID	(70-130)	(70-130)		
890-1428-A-1-C MS	Matrix Spike	98	107		
890-1428-A-1-D MSD	Matrix Spike Duplicate	107	105		
890-1432-1	PH01	936 S1+	42 S1-		
890-1432-2	PH01A	751 S1+	60 S1-		
890-1432-3	PH01B	485 S1+	67 S1-		
890-1432-4	PH01C	642 S1+	115		
890-1432-5	PH01D	111	102		
890-1434-A-1-B MS	Matrix Spike	136 S1+	125		
890-1434-A-1-C MSD	Matrix Spike Duplicate	96	92		
LCS 880-9748/1-A	Lab Control Sample	103	110		
LCS 880-9911/1-A	Lab Control Sample	88	99		
LCSD 880-9748/2-A	Lab Control Sample Dup	95	108		
LCSD 880-9911/2-A	Lab Control Sample Dup	88	102		
MB 880-9747/5-A	Method Blank	109	93		
MB 880-9748/5-A	Method Blank	114	104		
MB 880-9911/5-A	Method Blank	100	104		
Surrogate Legend					
BFB = 4-Bromofluorobe	nzene (Surr)				
DFBZ = 1,4-Difluoroben	zene (Surr)				

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

### Matrix: Solid

Percent Surrogate Recovery (Acceptance Limits) 1CO1 OTPH1 Lab Sample ID **Client Sample ID** (70-130) (70-130) 890-1428-A-3-D MS 312 S1+ Matrix Spike 215 S1+ 890-1428-A-3-E MSD Matrix Spike Duplicate 268 S1+ 203 S1+ 890-1431-A-1-B MS Matrix Spike 58 S1-113 890-1431-A-1-C MSD Matrix Spike Duplicate 121 65 S1-890-1432-1 PH01 120 80 890-1432-2 PH01A 112 85 890-1432-3 PH01B 120 98 PH01C 890-1432-4 103 90 890-1432-5 PH01D 107 118 LCS 880-9627/2-A Lab Control Sample 82 92 LCS 880-9834/2-A Lab Control Sample 94 96 93 LCSD 880-9627/3-A Lab Control Sample Dup 84 LCSD 880-9834/3-A 86 89 Lab Control Sample Dup MB 880-9627/1-A Method Blank 109 91 MB 880-9834/1-A Method Blank 101 116

### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

5

6

Prep Type: Total/NA

Prep Type: Total/NA

# **QC Sample Results**

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

Matrix: Solid Analysis Batch: 9846         Prop. Type: Total/NA Analysis Batch: 9846         Prop. Type: Total/NA Nalysis Matrix: Solid Analysis Matrix: Solid Matrix: Solid Maryama A 200200         Unit         D         Prop. Prop. Total/NA Nalysis Matrix: Solid Malysis Matrix: Solid Malysis Matrix: Solid Maryama A 200200         Unit         D         Prop. Prop. Total/NA Maryama A 200200         Nalysis Maryama A 200200         Unit         D         Prop. Prop. Total/NA Maryama A 200200         Nalysis Maryama A 200200         Unit         D         Prop. Prop. Total/NA Maryama A 200200         Unit         Nalysis Maryama A 200200         Unit         Nalysis Maryama A 200200         Unit         Other 14:01         Maryama A 200201         Units         Maryama A 200200         Units         Nalysis Maryama A 200200         Units         Prop. Total/NA Maryama A 200200         Maryama A 200200         Units         Prop. Total/NA Maryama A 200200         Maryama A 200200         Units         Prop. Total/NA Maryama A 200200         Maryama A 200200 <th< th=""><th></th><th>L .</th><th></th><th></th><th></th><th></th><th></th><th></th><th>Client S</th><th>Sample ID: M</th><th>ethod</th><th>l Blank</th></th<>		L .							Client S	Sample ID: M	ethod	l Blank
Mailya         Mei         Unit         D         Pergared         Analya         Diffact 1426         1           Berwane         40.0020         U         0.00000         mg/kg         10/1821 1401         10/1821 1425         1           Enytencaes         40.0020         U         0.00000         mg/kg         10/1821 1401         10/1821 1425         1           Sylene & AD.00200         U         0.00000         mg/kg         10/1821 1401         10/1821 1425         1           Sylene & AD.00200         U         0.00400         mg/kg         10/1821 1401         10/1821 1425         1           Sylene & AD.00200         U         0.00400         mg/kg         10/1821 1401         10/1821 1425         1           Sylene & AD.00200         MB         E         Pregared         Analyse         Del Fac           Sylene & Sole         Sylene & AD.00200         mg/kg         10/1821 1401         10/1821 1425         1           Sylene & Sole         MB         E         E         Pregared         Analyse         Del Fac           Sole         MB         E         E         Unit         D         Pregared         Analyse         Del Fac           Lab Sample ID: MB 880-9748/5.4	Matrix: Solid									Prep Ty	pe: To	otal/NA
Analyte         Result         Qualitier         Ru         Unit         D         Prepared         Analyzed         Dif Fac           Berzenne         -0.00200         U         0.00200         mg/Kg         10/18/21 14.01         10/18/21 14.25         1           Brityener, enc         -0.00200         U         0.00200         mg/Kg         10/18/21 14.01         10/18/21 14.25         1           Dergener, enc         -0.00000         U         0.00200         mg/Kg         10/18/21 14.01         10/18/21 14.25         1           Drykener, Fold         -0.00000         U         0.00000         mg/Kg         10/18/21 14.01         10/18/21 14.25         1           Surogate         MB         MB         MB         Prepared         Analyzed         Dif Acc           Surogate         MB MB         Limits         10/18/21 14.01         10/18/21 14.25         1         10/18/21 14.25         1           Analyzed         MB Receivery         Qualifier         Limits         Prepared         Analyzed         Dif Acc           Analyzed         MB Receivery         Qualifier         Limits         Prepared         Analyzed         Dif Acc           Analyzed         MB Receivery         Qualifier	Analysis Batch: 9846									Prep	Batch	h: 9747
Bergene         -0.00200         U         0.00200         mg/Kg         1014821 14.01         1014821 14.01         1014821 14.25         1           Toluene         -0.00200         0.00200         mg/Kg         1014821 14.01         1014821 14.25         1           ms/yene & -0.00200         0.00200         mg/Kg         1014821 14.01         1014821 14.25         1           ms/yene & -0.00200         0.00200         mg/Kg         1014821 14.01         1014821 14.25         1           Aylene         -0.00400         0.00400         mg/Kg         1014821 14.01         1014821 14.25         1           Surrogate         -0.00400         0.00400         mg/Kg         1014821 14.01         1014821 14.25         1           Surrogate         -0.00400         0.00400         mg/Kg         1014821 14.01         1014821 14.25         1           Adapte         Meexawe         Caluatifer         Limits         -         Analyzed         Dil Fac           Surrogate         -0.00200         Dulatifer         Limits         -         Analyzed         Dil Fac           Analyze         Result         Dulatifer         Limits         -         Dulatifer         Dil Fac           Elsykiene         -0.0020		ME	3 MB									
Totases	Analyte	Resul		RL	·	Unit		D	Prepared	Analyze	d	Dil Fac
Emylensene         < 0.00200	Benzene	<0.00200	) U	0.00200	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
mx/yene & p.xylene	Toluene	<0.00200	) U	0.00200	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
o-Mplene         -0.00200         U         0.00300         mgKg         10/18/21 14:01         10/19/21 14:25         1           Surrogate         MB         MB         MB         Prepared         Analyzed         DI Pac           Addom/lourobenzene (Surr)         109         70:130         Tort821 14:01         10/19/21 14:25         1           Lab Sample ID: MB 880-5748/5-A Matrix: Solid         MB         Prepared         Analyzed         DI Pac           Analyze         MB         MB         Client Sample ID: MB 880-5748/5-A Matrix: Solid         Client Sample ID: MB 880-5748/5-A           Analyze         MB         MB         MB         Prepared         Analyzed         DI Pac           Client Sample ID: MB 880-5748/5-A Matrix: Solid         MB         MB         Prepared         Analyzed         DI Pac           Client Sample ID: MB 880-5748/5-A Matrix: Solid         MB         MB         Prepared         Analyzed         DI Pac           Client Sample ID: MB 880-5748/5-A Matrix: Solid         MB         MB         DI Pac         Analyzed         DI Pac           Client Sample ID: MB 880-5748/5-A         MB         MB         MB         DI Pac         Analyzed         DI Pac           Analyzed         0.00200         0.00200	Ethylbenzene	<0.00200	) U	0.00200	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
Xylenes, Total         -0.00400         U         0.00400         mgKg         101182114.01         101192114.25         1           MB         M	m-Xylene & p-Xylene	<0.00400	) U	0.00400	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
MB         MB           Surogate         %Recovery Qualifier         Limits           Adomnthiveroberzene (Surr)         109         70.130         101/182/14.01         101/192/14.25         7           1.4-Difluoroberzene (Surr)         93         70.130         101/182/14.01         101/192/14.25         7           Lab Sample ID: MB 380-9748/5-A Matrix: Solid         Client Sample ID: Method Blank Matrix: Solid         Prepared         Analyzed         DI Face           Analyze         MB ME          Name         Propared         Analyzed         DI Face           Benzenne         <0.00200	o-Xylene	<0.00200	) U	0.00200	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
Surragate         XRecovery         Qualifier         Limits         Prepared         Analysed         Dif Fac           4 Abronolourobenzene (Surr)         93         70 - 130         10/1827 14:01         10/1927 14:25         1           Lab Sample ID: MB 880-9748/5-A Matrix: Solid         Kee Surger         Client Sample ID: Method Blank Prep Type: Total/MA         Prepared         Analyzed         Dif Fac           Analysis Batch: 9846         MB         MB         Client Sample ID: Method Blank Prep Type: Total/MA         Prepared         Analyzed         Dif Fac           Benzene         -0.00200         0         0.00200         mg/fg         10/1827 14:06         10/2021 01:16         1           Totume         -0.00200         0         0.00200         mg/fg         10/1821 14:06         10/2021 01:16         1           Advine         -0.00400         0         0.00400         mg/fg         10/1821 14:06         10/2021 01:16         1           Syringeric         -0.00400         0         0.00400         mg/fg         10/1821 14:06         10/2021 01:16         1           Advine         MB         MB <t< td=""><td>Xylenes, Total</td><td>&lt;0.00400</td><td>) U</td><td>0.00400</td><td>)</td><td>mg/K</td><td>g</td><td></td><td>10/18/21 14:0</td><td>1 10/19/21 14</td><td>1:25</td><td>1</td></t<>	Xylenes, Total	<0.00400	) U	0.00400	)	mg/K	g		10/18/21 14:0	1 10/19/21 14	1:25	1
4-Bromofularobacene (Surr)         100         70 - 130         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.01         10/16/21 14.		ME	3 <i>MB</i>									
1.4-Difluorobenzene (Surr)       93       70.130       10/18/21 14:01       10/19/21 14:25       1         Lab Sample ID: MB 880-9748/5-A Matrix: Solid       Client Sample ID: MB 880-9748/5-A Matrix: Solid       Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 9748         Analysie Batch: 9846       Result Qualifier       RL       Unit       D       Prepared Prepared       Analyzed       DIF & Prepared         Analyte       Result Qualifier       RL       Unit       D       Prepared Prepared       Analyzed       DIF & Prepared         Toluene       <0.00200	Surrogate	%Recover	Qualifier	Limits	_				Prepared	Analyze	d	Dil Fac
Lab Sample ID: MB 880-9748/5-A Matrix: Solid Analysis Batch: 9846         Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 9748           Analysis Batch: 9846         MB         Descent Colspan="2">Prep Type: Total/NA Prep Batch: 9748           Analyte         Result         Qualifier         RL         Unit         D         Prep and Prep Batch: 9748         Dil Fac Di Prep Tot/18/21 14:06         Di Prec Tot/18/21 14:06         Di Prec Tot/28/21 01:16         Di Prec Tot/18/21 14:06         <	4-Bromofluorobenzene (Surr)	10	9	70 - 130					10/18/21 14:0	1 10/19/21 1	4:25	1
Matrix: Solid Analysis Batch: 9846         Proprint	1,4-Difluorobenzene (Surr)	9.	3	70 - 130					10/18/21 14:0	1 10/19/21 1	4:25	1
Prop Batch: 9846           Prop Batch: 9748           Analyte         Result         Quilifier         RL         Unit         D         Propared         Analyzet         Dil Fac           Benzene         <0.00200	- Lab Sample ID: MB 880-9748/5-A								Client S	Sample ID: M	ethod	l Blank
Prop Batch: 9846           Prop Batch: 9748           Analyte         Result         Quilifier         RL         Unit         D         Propared         Analyzet         Dil Fac           Benzene         <0.00200	Matrix: Solid									Prep Ty	pe: To	otal/NA
Majve         Result         Qualifier         RL         Unit         D         Prepare         Analyzet         Di Fac           Benzene         <0.00200	Analysis Batch: 9846											
Benzene         <0.00200         U         0.00200         mg/Kg         10/18/21 14:06         10/20/21 01:16         1           Toluene         <0.00200	-	ME	3 MB									
Toluene         <0.00200         U         0.00200         mgKg         10/18/21 14:06         10/20/21 01:16         1           Ehylbenzene         <0.00200	Analyte	Resul	t Qualifier	RL		Unit		D	Prepared	Analyze	d	Dil Fac
Ethylbenzene         <0.00200         U         0.00200         mg/kg         10/18/21 14:06         10/20/21 01:16         1           m:Xylene & p-Xylene         <0.00200	Benzene	<0.00200	U	0.00200	)	mg/K	g	_	10/18/21 14:0	6 10/20/21 0 ⁻	1:16	1
Ethylbenzene         <0.00200         U         0.00200         mg/kg         10/18/21 14:06         10/20/21 01:16         1           m:Xylene & p.Xylene         <0.00400	Toluene	<0.00200	) U	0.00200	)	mg/K	g		10/18/21 14:0	6 10/20/21 0 ²	1:16	1
m.Xylene         <0.00400         U         0.04400         mg/kg         10/18/21 14:06         10/20/21 01:16         1           0.xylene         <0.00200	Ethylbenzene	<0.00200	) U	0.00200	)	-	-		10/18/21 14:0	6 10/20/21 0 ²	1:16	1
o-Xylene         <0.00200         U         0.00200         mg/Kg         10/18/21 14:06         10/20/21 01:16         1           Xylenes, Total          MB         MB         MB         MB         MB           surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Di/20/21 01:16         1           4-Bromofluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           Lab Sample ID: LCS 880-9748/1-A         Client Sample ID: Lab Control Sample         Prep Type: Total/NA         Prep Batch: 9748           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits         Prep Batch: 9748           Spike         LCS         LCS         LCS         MB         %Rec         Limits         %Rec         Limits         %Rec           Benzene         0.100         0.08958         mg/Kg         90         70 - 130         Limits         %Rec           Ethylbenzene         0.100         0.08958         mg/Kg         88         70 - 130         Prep Type: Total/NA           Surrogate         %Recovery         Qualifier         Limits         70 - 130	m-Xvlene & p-Xvlene	<0.00400	) U	0.00400	 )				10/18/21 14:0	6 10/20/21 0 ²	1:16	1
Xylenes, Total         <0.00400         U         0.00400         mg/Kg         10/18/21 14:06         10/20/21 01:16         1           Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fac           1.4-Difluorobenzene (Surr)         114         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         Elient Sample ID: Lab Control Sample         Prep Batch: 9748           Analyte         Added         Result         Qualifier         Unit         D         %Rec         Himits           Benzene         0.100         0.08958         mg/Kg         90         70 - 130         To 130           Toluene         0.100         0.09487         mg/Kg         88         70 - 130         To 130           Sylene & P.Xylene         0.2000						-	-					1
Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fac           4-Bromofluorobenzene (Surr)         114         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           Lab Sample ID: LCS 880-9748/1-A         Client Sample ID: Lab Control Sample         Prep Type: Total/NA           Matrix: Solid         Spike         LCS         LCS         %Rec.           Analyte         Added         Result         Qualifier         Unit         D         %Rec.           Analyte         0.100         0.0400         mg/Kg         104         70 - 130         Prep Type: Total/NA           Benzene         0.100         0.0400         mg/Kg         90         70 - 130         Prep Type: Total/NA           Toluene         0.100         0.09858         mg/Kg         85         70 - 130         Prep Type: Total/NA						-	-					1
Surrogate         %Recovery         Qualifier         Limits         Prepared         Analyzed         Dil Fac           4-Bromofluorobenzene (Surr)         114         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           Lab Sample ID: LCS 880-9748/1-A         Client Sample ID: Lab Control Sample         Prep Type: Total/NA           Matrix: Solid         Spike         LCS         LCS         %Rec.           Analyte         Added         Result         Qualifier         Unit         D         %Rec.           Analyte         0.100         0.0400         mg/Kg         104         70 - 130         Prep Type: Total/NA           Benzene         0.100         0.0400         mg/Kg         90         70 - 130         Prep Type: Total/NA           Toluene         0.100         0.09858         mg/Kg         85         70 - 130         Prep Type: Total/NA		МЕ	3 MB									
4-Bromofluorobenzene (Surr)         114         70 - 130         10/18/21 14:06         10/20/21 01:16         1           1.4-Difluorobenzene (Surr)         104         70 - 130         10/18/21 14:06         10/20/21 01:16         1           Lab Sample ID: LCS 880-9748/1-A         Matrix: Solid         Client Sample ID: Lab Control Sample         Prep Type: Total/NA           Matrix: Solid         Analyte         Added         Result         Qualifier         Unit         D         %Rec.           Benzene         0.100         0.040d         mg/Kg         10/4         70 - 130         Imits           Toluene         0.100         0.040d         mg/Kg         85         70 - 130         Imits           Ethylbenzene         0.100         0.08555         mg/Kg         85         70 - 130           m-Xylene & p-Xylene         0.200         0.1765         mg/Kg         95         70 - 130           LCS         LCS         Signa         70 - 130         Prep Type: Total/NA           1.4-Difluorobenzene (Surr)         103         70 - 130         Prep Type: Total/NA           1.4-Difluorobenzene (Surr)         103         70 - 130         Prep Type: Total/NA           1.4-Difluorobenzene (Surr)         103         70 - 130	Surrogate	%Recover	/ Qualifier	Limits					Prepared	Analvze	d	Dil Fac
1,4-Difluorobenzene (Surr)       104       70 - 130       10/18/21 14:06       10/20/21 01:16       1         Lab Sample ID: LCS 880-9748/1-A Matrix: Solid       Client Sample ID: Lab Control Sample       Prep Type: Total/NA Prep Batch: 9748         Analyte       Spike       LCS       LCS       VRec.       Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       Limits       Prep Type: Total/NA         Benzene       0.100       0.0404       mg/Kg       90       70 - 130       Total/NA         Toluene       0.100       0.08535       mg/Kg       90       70 - 130       Total/NA         m-Xylene & p-Xylene       0.100       0.08535       mg/Kg       85       70 - 130       Total/NA         Surrogate       0.100       0.09487       mg/Kg       95       70 - 130       Total/NA         1,4-Difluorobenzene (Surr)       103       70 - 130       Total/NA       Prep Type: Total/NA         1,4-Difluorobenzene (Surr)       103       70 - 130       Prep Type: Total/NA         1,4-Difluorobenzene (Surr)       103       70 - 130       Prep Type: Total/NA         1,4-Difluorobenzene (Surr)       103       70 - 130       Prep Type: Total/NA <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					-							
Matrix: Solid Analysis Batch: 9846       Prep Type: Total/NA Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       Limits         Benzene       0.100       0.1040       mg/Kg       104       70.130       103         Toluene       0.100       0.08958       mg/Kg       85       70.130         Ethylbenzene       0.100       0.08535       mg/Kg       88       70.130         m-Xylene & p-Xylene       0.200       0.1765       mg/Kg       88       70.130         o-Xylene       Ørep Organ       Ørep Type: Total/NA       Prep Type: Total/NA         LCS       LCS       LCS       Matrix:       Solid       Prep Type: Total/NA         Jack       Ørep Type: Total/NA       Ørep Type: Total/NA       Prep Type: Total/NA         LCS       LCS       LCS       LCS       Matrix: Solid       Prep Type: Total/NA         Jack       Prep Type: Total/NA       Prep Type: Total/NA       Prep Type: Total/NA         Analyte       Ørep Batch: 9748       Prep Type: Total/NA       Prep Type: Total/NA         Other Solid       P		10-	4	70 - 130					10/18/21 14:0	6 10/20/21 0 ⁻	1:16	1
Matrix: Solid Analysis Batch: 9846       Prep Type: Total/NA Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       Limits         Benzene       0.100       0.1040       mg/Kg       104       70.130       103         Toluene       0.100       0.08958       mg/Kg       85       70.130         Ethylbenzene       0.100       0.08535       mg/Kg       88       70.130         m-Xylene & p-Xylene       0.200       0.1765       mg/Kg       88       70.130         o-Xylene       Ørep Organ       Ørep Type: Total/NA       Prep Type: Total/NA         LCS       LCS       LCS       Matrix:       Solid       Prep Type: Total/NA         Jack       Ørep Type: Total/NA       Ørep Type: Total/NA       Prep Type: Total/NA         LCS       LCS       LCS       LCS       Matrix: Solid       Prep Type: Total/NA         Jack       Prep Type: Total/NA       Prep Type: Total/NA       Prep Type: Total/NA         Analyte       Ørep Batch: 9748       Prep Type: Total/NA       Prep Type: Total/NA         Other Solid       P												
Spike         LCS         LCS         Maint         D         %Rec.         Limits		A						C	ment Sample			
Analyte         Added         Result         Qualifier         Unit         D         %Rec.         Limits												
Analyte         Added         Result         Qualifier         Unit         D         %Rec         Limits           Benzene         0.100         0.1040         mg/Kg         104         70.130         70.130           Toluene         0.100         0.08958         mg/Kg         90         70.130         70.130           Ethylbenzene         0.100         0.08535         mg/Kg         85         70.130           m-Xylene & p-Xylene         0.200         0.1765         mg/Kg         95         70.130           o-Xylene         0.100         0.09487         mg/Kg         95         70.130           o-Xylene         0.100         0.09487         mg/Kg         95         70.130           o-Xylene         0.100         0.09487         mg/Kg         95         70.130           o-Xylene         103         70.130         70.130         70.130         70.130           1,4-Difluorobenzene (Surr)         110         70.130         70.130         Prep Type: Total/NA           Lab Sample ID: LCSD 880-9748/2-A         Elimits         Client Sample ID: Lab Control Sample Dup           Matrix: Solid         Prep Batch: 9748         Prep Batch: 9748         Prep Batch: 9748           Ana	Analysis Batch: 9846			Spiko	1.05	1.09				-	Batcr	1: 9/48
Benzene         0.100         0.1040         mg/Kg         104         70 - 130           Toluene         0.100         0.08958         mg/Kg         90         70 - 130           Ethylbenzene         0.100         0.08535         mg/Kg         85         70 - 130           m-Xylene & p-Xylene         0.200         0.1765         mg/Kg         88         70 - 130           o-Xylene         0.100         0.09487         mg/Kg         95         70 - 130           o-Xylene         0.100         0.09487         mg/Kg         95         70 - 130           o-Xylene         0.100         0.09487         mg/Kg         95         70 - 130           LCS         LCS         LCS         LCS         LCS         LCS         LCS           Surrogate         %Recovery         Qualifier         Limits         4-Bromofluorobenzene (Surr)         103         70 - 130           1,4-Difluorobenzene (Surr)         110         70 - 130         Prep Type: Total/NA         Prep Type: Total/NA           Matrix: Solid         Prep Batch: 9748         Prep Batch: 9748         Prep Batch: 9748           Analyte         Added         Result         Qualifier         Unit         D         %Rec         <	Analyte			•			Unit		D %Rec			
Toluene       0.100       0.08958       mg/Kg       90       70.130         Ethylbenzene       0.100       0.08535       mg/Kg       85       70.130         m-Xylene & p-Xylene       0.200       0.1765       mg/Kg       88       70.130         o-Xylene       0.100       0.09487       mg/Kg       95       70.130         LCS LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       103       70.130         1,4-Difluorobenzene (Surr)       110       70.130         Lab Sample ID: LCSD 880-9748/2-A       Kecovery       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       RPD						quantor						
Ethylbenzene       0.100       0.08535       mg/Kg       85       70 - 130         m-Xylene & p-Xylene       0.200       0.1765       mg/Kg       88       70 - 130         o-Xylene       0.100       0.09487       mg/Kg       95       70 - 130         LCS       LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       103       70 - 130         1,4-Difluorobenzene (Surr)       110       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limits												
m-Xylene & p-Xylene       0.200       0.1765       mg/Kg       88       70 - 130         o-Xylene       0.100       0.09487       mg/Kg       95       70 - 130         LCS LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       103       70 - 130       70 - 130         1,4-Difluorobenzene (Surr)       110       70 - 130       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA Prep Batch: 9748         Matrix: Solid       Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       RPD												
o-Xylene 0.100 0.09487 mg/Kg 95 70-130 LCS LCS <u>Surrogate %Recovery Qualifier Limits</u> 4-Bromofluorobenzene (Surr) 103 70-130 1,4-Difluorobenzene (Surr) 110 70-130 Lab Sample ID: LCSD 880-9748/2-A Matrix: Solid Analysis Batch: 9846 <u>Spike LCSD LCSD </u> %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit												
LCS       LCS         Surrogate       %Recovery       Qualifier       Limits         4-Bromofluorobenzene (Surr)       103       70 - 130         1,4-Difluorobenzene (Surr)       110       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 9846       Prep Batch: 9748         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       RPD       Limit												
Surrogate       %Recovery       Qualifier       Limits         4-Bromofiluorobenzene (Surr)       103       70 - 130         1,4-Difluorobenzene (Surr)       110       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup Matrix: Solid         Analysis Batch: 9846       Prep Type: Total/NA         Analyte       Added       Result       Qualifier       Unit       D       %Rec.       RPD	o-xylene			0.100	0.09467		mg/Kg		90	70 - 130		
4-Bromofluorobenzene (Surr)       103       70 - 130         1,4-Difluorobenzene (Surr)       110       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 9846       Prep Batch: 9748         Spike       LCSD       %Rec.       RPD         Analyte       Added       Result       Qualifier       Unit       D       %Rec       Limit	•											
1,4-Difluorobenzene (Surr)       110       70 - 130         Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 9846       Prep Batch: 9748         Spike       LCSD       KRec.       RPD         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limit			alifier									
Lab Sample ID: LCSD 880-9748/2-A       Client Sample ID: Lab Control Sample Dup         Matrix: Solid       Prep Type: Total/NA         Analysis Batch: 9846       Prep Batch: 9748         Spike       LCSD       KRec.       RPD         Analyte       Added       Result       Qualifier       Unit       D       %Rec       RPD       Limit												
Matrix: Solid     Prep Type: Total/NA       Analysis Batch: 9846     Prep Batch: 9748       Spike     LCSD     %Rec.     RPD       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD     Limits	1,4-Difluorobenzene (Surr)	110		70 - 130								
Analysis Batch: 9846     Prep Batch: 9748       Spike     LCSD     KRec.       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD		2-A					CI	ient	Sample ID:	Lab Control	Samp	le Dup
Spike     LCSD     LCSD     %Rec.     RPD       Analyte     Added     Result     Qualifier     Unit     D     %Rec     RPD     Limits	Matrix: Solid									Prep Ty	pe: To	otal/NA
Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit	Analysis Batch: 9846									Prep	Batch	n: <b>9748</b>
				Spike	LCSD	LCSD				%Rec.		RPD
Benzene         0.100         0.09387         mg/Kg         94         70 - 130         10         35	Analyte			Added	Result	Qualifier	Unit		D %Rec	Limits	RPD	Limit
	Benzene			0.100	0.09387		mg/Kg		94	70 - 130	10	35

Page 259 of 286

Job ID: 890-1432-1

SDG: 31402909.130

# 10/22/2021

Eurofins Xenco, Carlsbad

# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1432-1 SDG: 31402909.130

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

Lab Sample ID: LCSD 880-9	748/2-A					Clie	nt Sam	ple ID:	Lab Contro		
Matrix: Solid										Type: To	
Analysis Batch: 9846										p Batch	
			Spike		LCSD				%Rec.		RPD
Analyte			Added		Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Toluene			0.100	0.08336		mg/Kg		83	70 - 130	7	35
Ethylbenzene			0.100	0.07798		mg/Kg		78	70 _ 130	9	35
m-Xylene & p-Xylene			0.200	0.1605		mg/Kg		80	70 - 130	9	35
o-Xylene			0.100	0.08265		mg/Kg		83	70 - 130	14	35
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	95		70 - 130								
1,4-Difluorobenzene (Surr)	108		70 - 130								
Lab Sample ID: 890-1428-A	1.C.MS							Client	Sample ID	• Matrix	Spike
Matrix: Solid								onent		Type: To	
Analysis Batch: 9846										p Batch	
Analysis Batch. 5040	Sample	Sample	Spike	MS	MS				%Rec.	p Daten	
Analyte	-	Qualifier	Added		Qualifier	Unit	D	%Rec	Limits		
Benzene	0.0165		0.0996	0.09876		mg/Kg		83	70 - 130		
Toluene	0.107	F1	0.0996	0.08737	F1	mg/Kg		-20	70 - 130		
Ethylbenzene	0.181		0.0996	0.08507		mg/Kg		-96	70 - 130		
m-Xylene & p-Xylene	0.0164		0.199	0.1725		mg/Kg		78	70 - 130		
o-Xylene	2.38	E	0.0996	0.08738	4	mg/Kg		-2301	70 - 130		
	MS	MS									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	98		70 - 130								
1,4-Difluorobenzene (Surr)	107		70 - 130								
- Lab Sample ID: 890-1428-A-	-1-D MSD					C	lient Sa	ample IC	): Matrix Sp	oike Dup	olicate
Matrix: Solid								•		· Type: To	
Analysis Batch: 9846										p Batch	
-	Sample	Sample	Spike	MSD	MSD				%Rec.	•	RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Bonzono	0.0165		0 100	0.08008		malka		73	70 130	0	35

Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.0165		0.100	0.08998		mg/Kg		73	70 - 130	9	35
Toluene	0.107	F1	0.100	0.08531	F1	mg/Kg		-22	70 - 130	2	35
Ethylbenzene	0.181	F1	0.100	0.08445	F1	mg/Kg		-96	70 - 130	1	35
m-Xylene & p-Xylene	0.0164		0.200	0.1755		mg/Kg		80	70 - 130	2	35
o-Xylene	2.38	E	0.100	0.08882	4	mg/Kg		-2291	70 - 130	2	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

### Lab Sample ID: MB 880-9911/5-A Matrix: Solid Analysis Batch: 10084

### MB MB Analyte Result Qualifier RL Unit D Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 10/19/21 15:07 10/21/21 13:59 mg/Kg 1 Toluene <0.00200 U 0.00200 mg/Kg 10/19/21 15:07 10/21/21 13:59 1 Ethylbenzene <0.00200 U 0.00200 mg/Kg 10/19/21 15:07 10/21/21 13:59 1 m-Xylene & p-Xylene <0.00400 U 0.00400 10/19/21 15:07 10/21/21 13:59 mg/Kg 1

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**Client Sample ID: Method Blank** 

Prep Type: Total/NA

Prep Batch: 9911

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

### Job ID: 890-1432-1 SDG: 31402909.130

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

Lab Sample ID: MB 880-991 Matrix: Solid	1/5-A								Client Sa	mple ID: Metl Prep Type		
Analysis Batch: 10084										Prep Ba	atch:	: <b>9911</b>
	MB	MB										
Analyte	Result	Qualifier	RL		Unit		D	Р	repared	Analyzed		Dil Fac
o-Xylene	<0.00200	U	0.00200		mg/ł	٢g		10/1	9/21 15:07	10/21/21 13:59	)	1
Xylenes, Total	<0.00400	U	0.00400		mg/ł	٢g		10/1	9/21 15:07	10/21/21 13:59	)	1
	MB	MB										
Surrogate	%Recovery	Qualifier	Limits					P	repared	Analyzed		Dil Fac
4-Bromofluorobenzene (Surr)	100	)	70 - 130				-	10/1	9/21 15:07	10/21/21 13:59	)	1
1,4-Difluorobenzene (Surr)	104	1	70 - 130					10/1	9/21 15:07	10/21/21 13:59	)	1
Lab Sample ID: LCS 880-99	11/1-A						CI	lient	Sample	ID: Lab Contr	ol Sa	ample
Matrix: Solid										Prep Type		
Analysis Batch: 10084										Prep Ba		
			Spike	LCS	LCS					%Rec.		
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits		
Benzene			0.100	0.1034		mg/Kg		_	103	70 - 130		
Toluene			0.100	0.1080		mg/Kg			108	70 - 130		
Ethylbenzene			0.100	0.1174		mg/Kg			117	70 - 130		
m-Xylene & p-Xylene			0.200	0.2275		mg/Kg			114	70 - 130		
o-Xylene			0.100	0.1186		mg/Kg			119	70 - 130		
	LCS LCS	S										
Surrogate	%Recovery Qua	alifier	Limits									
4-Bromofluorobenzene (Surr)	88		70 - 130									
1,4-Difluorobenzene (Surr)	99		70 - 130									
Lab Sample ID: LCSD 880-9	911/2-A					CI	ient	Sam	nole ID: La	ab Control Sa	mple	e Dup
Matrix: Solid										Prep Type		
Analysis Batch: 10084										Prep Ba		
			Spike	LCSD	LCSD					%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit		D	%Rec	Limits R	PD	Limit
Benzene			0.100	0.1055		mg/Kg		_	105	70 - 130	2	35

Analyte	Added	Result Qu	ualifier Unit	D %Rec	Limits	RPD	Limit
Benzene	0.100	0.1055	mg/Kg	105	70 - 130	2	35
Toluene	0.100	0.1109	mg/Kg	111	70 - 130	3	35
Ethylbenzene	0.100	0.1167	mg/Kg	117	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2266	mg/Kg	113	70 - 130	0	35
o-Xylene	0.100	0.1189	mg/Kg	119	70 - 130	0	35

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	88		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

### Lab Sample ID: 890-1434-A-1-B MS Matrix: Solid

Analysis Batch: 10084									Pre	p Batch: 9911
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0990	0.09342		mg/Kg		94	70 - 130	
Toluene	<0.00199	U	0.0990	0.1154		mg/Kg		116	70 - 130	
Ethylbenzene	<0.00199	U	0.0990	0.1197		mg/Kg		121	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.2190		mg/Kg		111	70 - 130	
o-Xylene	<0.00199	U F1	0.0990	0.1308	F1	mg/Kg		131	70 - 130	

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**Client Sample ID: Matrix Spike** 

Prep Type: Total/NA

10/22/2021

# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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

## Lab Sample ID: 890-1434-A-1-B MS

### Matrix: Solid Analysis Batch: 10084

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	125		70 - 130

# Lab Sample ID: 890-1434-A-1-C MSD Matrix: Solid

### Analysia Bataby 10094

Analysis Batch: 10084									Pre	p Batch	ı: 9911
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.07836		mg/Kg		78	70 - 130	18	35
Toluene	<0.00199	U	0.100	0.09275		mg/Kg		92	70 - 130	22	35
Ethylbenzene	<0.00199	U	0.100	0.09852		mg/Kg		99	70 - 130	19	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1818		mg/Kg		91	70 - 130	19	35
o-Xylene	<0.00199	U F1	0.100	0.09965		mg/Kg		99	70 _ 130	27	35
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	96		70 - 130								
1,4-Difluorobenzene (Surr)	92		70 - 130								

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

 Lab Sample ID: MB 880-9627/1-A								Client Sa	ample ID: Metho	d Blank
Matrix: Solid									Prep Type: 7	Total/NA
Analysis Batch: 9621									Prep Bate	ch: 9627
	MB	MB								
Analyte	Result	Qualifier	RL		Unit		D P	repared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
(GRO)-C6-C10										
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/K	g	10/1	8/21 07:49	10/18/21 11:23	1
	МВ	МВ								
Surrogate	%Recovery	Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
1-Chlorooctane	91		70 - 130				10/1	18/21 07:49	10/18/21 11:23	1
o-Terphenyl	109		70 - 130				10/1	8/21 07:49	10/18/21 11:23	1
Lab Sample ID: LCS 880-9627/2-A							Client	t Sample	ID: Lab Control	Sample
Matrix: Solid									Prep Type: [•]	
Analysis Batch: 9621									Prep Bate	
-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	761.6		mg/Kg		76	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over C10-C28)			1000	774.5		mg/Kg		77	70 - 130	

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	82		70 - 130
o-Terphenyl	92		70 - 130

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### Job ID: 890-1432-1 SDG: 31402909.130

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 9911

**Client Sample ID: Matrix Spike** 

**Client Sample ID: Matrix Spike Duplicate** 

# **QC Sample Results**

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

Lab Sample ID: LCSD 880-962	27/3-A					Clier	nt Sar	nple ID: L	ab Contro		
Matrix: Solid									Prep T	ype: To	tal/NA
Analysis Batch: 9621									Pre	p Batch	: 9627
			Spike	LCSD	LCSD				%Rec.		RPI
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics			1000	798.9		mg/Kg		80	70 - 130	5	20
GRO)-C6-C10										_	
Diesel Range Organics (Over C10-C28)			1000	813.4		mg/Kg		81	70 - 130	5	2
510-020)											
	LCSD	LCSD									
Surrogate	%Recovery	Qualifier	Limits	-							
1-Chlorooctane	84		70 - 130								
p-Terphenyl	93		70 - 130								
Lab Sample ID: 890-1431-A-1-	RMS							Client	Sample ID:	Matrix	Snik
Matrix: Solid	-D 1013							Chent			
										ype: To	
Analysis Batch: 9621	Somela	Sample	Spike	MS	MS				%Rec.	p Batch	1: 902
Analysis	•	Sample Qualifier	Spike Added			Unit	D	%Rec	%Rec.		
Analyte	855	Quaimer	997		Qualifier			80	70 - 130		
Gasoline Range Organics (GRO)-C6-C10	000		997	1049		mg/Kg		80	70 - 130		
Diesel Range Organics (Over	4410		997	4685	4	mg/Kg		28	70 - 130		
C10-C28)						0 0					
	MS	MS									
Surrogate			Limits								
-	%Recovery		<i>Limits</i>	-							
I-Chlorooctane D-Terphenyl	%Recovery 113 58		Limits 70 - 130 70 - 130	-		CI	iont S	ample ID	· Matrix Sn	sike Du	olicat
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid	%Recovery 113 58	Qualifier	70 - 130	-		СІ	ient S	ample ID:		oike Dur Type: To p Batch	tal/N
I-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid	%Recovery 113 58 •C MSD	Qualifier	70 - 130	MSD	MSD	CI	ient S	ample ID:	Prep T	ype: To	otal/N/ 1: 962
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621	%Recovery 113 58 •C MSD Sample	Qualifier S1-	70 - 130 70 - 130		MSD Qualifier	CI Unit	ient S D	ample ID: %Rec	Prep T Prej	ype: To	tal/N/
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte	%Recovery 113 58 •C MSD Sample	Qualifier S1- Sample	70 - 130 70 - 130 <b>Spike</b>					-	Prep T Prej %Rec.	ype: To p Batch	tal/N : 962 RP Lim
1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery 113 58 •C MSD Sample Result 855	Qualifier S1- Sample	70 - 130 70 - 130 <b>Spike</b> Added 998	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N/ : 962 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 113 58 •C MSD Sample Result	Qualifier S1- Sample	70 - 130 70 - 130 Spike Added	Result	Qualifier	Unit		%Rec	Prep T Pre %Rec. Limits	ype: To p Batch 	tal/N/ : 962 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 113 58 •C MSD Sample Result 855	Qualifier S1- Sample	70 - 130 70 - 130 <b>Spike</b> Added 998	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N/ : 962 RP Lim 2
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	%Recovery 113 58 •C MSD Sample Result 855 4410	Qualifier S1- Sample	70 - 130 70 - 130 <b>Spike</b> Added 998	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N/ : 962 RP Lim 2
1-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	%Recovery 113 58 •C MSD Sample Result 855 4410	Qualifier S1- Sample Qualifier MSD	70 - 130 70 - 130 <b>Spike</b> Added 998	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N/ : 962 RP Lim 2
Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	%Recovery 113 58 •C MSD Sample Result 855 4410 <i>MSD</i>	Qualifier S1- Sample Qualifier MSD	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N/ 1: 962 RPI
I-Chlorooctane - Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121	Qualifier S1- Sample Qualifier MSD	70 - 130 70 - 130 Spike Added 998 998	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		<b>%Rec</b>	Prep T Prep %Rec. Limits 70 - 130	ype: To p Batch 	tal/N 962 RP Lim
I-Chlorooctane -Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane -Terphenyl	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65	Qualifier S1- Sample Qualifier MSD Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		%Rec 84 66	Prep T Pre %Rec. Limits 70 - 130 70 - 130	ype: To p Batch RPD 2 8	<b>tal/N</b> <b>962</b> RP <u>Lim</u> 2
A-Chlorooctane Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate (-Chlorooctane D-Terphenyl Lab Sample ID: MB 880-9834/	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65	Qualifier S1- Sample Qualifier MSD Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		%Rec 84 66	Prep         T           %Rec.         Limits           70 - 130         70 - 130           70 - 130         130	ype: To p Batch RPD 2 8 8	Blan
I-Chlorooctane -Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65	Qualifier S1- Sample Qualifier MSD Qualifier	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		%Rec 84 66	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To p Batch <u>RPD</u> 2 8 Method ype: To	Blan
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65	Qualifier S1- Sample Qualifier MSD Qualifier S1-	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130	Result 1689	Qualifier	- <mark>Unit</mark> mg/Kg		%Rec 84 66	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To p Batch RPD 2 8 8	Blan
I-Chlorooctane D-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid Analysis Batch: 9827	<u>%Recovery</u> 113 58 <b>C MSD</b> <b>Sample</b> <b>Result</b> 855 4410 <i>MSD</i> %Recovery 121 65 1-A	Qualifier S1- Sample Qualifier MSD Qualifier S1-	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130 70 - 130	Result 1689 5064	Qualifier 4	- <mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	%Rec 84 66 Client Sa	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To p Batch 2 8 Method ype: To p Batch	tal/N. : 962 RP Lim 2 2 Blan tal/N. : 983
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid Analysis Batch: 9827 Analyte	<u>%Recovery</u> 113 58 C MSD Sample <u>Result</u> 855 4410 <i>MSD</i> <i>%Recovery</i> 121 65 1-A	Qualifier S1- Sample Qualifier MSD Qualifier S1- S1- MB MB esult Quali	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130 70 - 130	Result 1689 5064	4 Unit	Unit mg/Kg mg/Kg	D	%Rec 84 66 Client Sa	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 170 Prep T Prep T Preg Analyz	ype: To p Batch 2 8 Method ype: To p Batch ed	Blan tal/N. P Blan tal/N. 983 Dil Fa
I-Chlorooctane p-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane p-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics	<u>%Recovery</u> 113 58 C MSD Sample <u>Result</u> 855 4410 <i>MSD</i> <i>%Recovery</i> 121 65 1-A	Qualifier S1- Sample Qualifier MSD Qualifier S1-	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130 70 - 130	Result 1689 5064	Qualifier 4	Unit mg/Kg mg/Kg	D	%Rec 84 66 Client Sa	Prep T Pre %Rec. Limits 70 - 130 70 - 130 70 - 130	ype: To p Batch 2 8 Method ype: To p Batch ed	Blan tal/N. P Blan tal/N. 983 Dil Fa
1-Chlorooctane o-Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid Analysis Batch: 9827 Analyte Gasoline Range Organics (GRO)-C6-C10	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65           1-A	Qualifier S1- Sample Qualifier MSD Qualifier S1- S1- S1- BB MB esult Quali 50.0 U	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130 70 - 130	Result           1689           5064	4 Unit mg/K	- <mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	%Rec           84           66           Client Sa           Prepared           19/21 09:45	Prep T Prej %Rec. Limits 70 - 130 70 - 130	Vethod ype: To p Batch 2 8 8 Method ype: To p Batch ed 10:56	Blanlotal/N/
I-Chlorooctane -Terphenyl Lab Sample ID: 890-1431-A-1- Matrix: Solid Analysis Batch: 9621 Analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate I-Chlorooctane D-Terphenyl Lab Sample ID: MB 880-9834/ Matrix: Solid Analysis Batch: 9827 Analyte Basoline Range Organics	%Recovery           113           58           •C MSD           Sample           Result           855           4410           MSD           %Recovery           121           65           1-A	Qualifier S1- Sample Qualifier MSD Qualifier S1- S1- MB MB esult Quali	70 - 130 70 - 130 70 - 130 Spike Added 998 998 998 998 998 70 - 130 70 - 130	Result 1689 5064	4 Unit	- <mark>Unit</mark> mg/Kg mg/Kg	<u> </u>	%Rec 84 66 Client Sa	Prep T Prej %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 170 Prep T Prep T Preg Analyz	Vethod ype: To p Batch 2 8 8 Method ype: To p Batch ed 10:56	Blan Blan tal/N : 962 RP Lim 2 2 2 2 2 Blan tal/N : 983 Dil Fa

Eurofins Xenco, Carlsbad

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

### Job ID: 890-1432-1 SDG: 31402909.130

Lab Sample ID: MB 880-9834	l/1-A							<b>Client S</b>	ample ID: Metho	od Blank
Matrix: Solid									Prep Type:	Total/NA
Analysis Batch: 9827									Prep Bat	ch: 9834
		MB MB								
Surrogate	%Reco	overy Qualifier	Limits				F	Prepared	Analyzed	Dil Fac
1-Chlorooctane		101	70 - 130				10/1	19/21 09:45	10/19/21 10:56	1
o-Terphenyl		116	70 - 130				10/1	19/21 09:45	10/19/21 10:56	1
Lab Sample ID: LCS 880-983	4/2-A						Client	t Sample	ID: Lab Contro	Sample
Matrix: Solid									Prep Type:	
Analysis Batch: 9827									Prep Bat	
-			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics			1000	822.9		mg/Kg		82	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over C10-C28)			1000	1015		mg/Kg		101	70 - 130	
	LCS	LCS								
Surrogate	%Recovery	Qualifier	Limits							
1-Chlorooctane	94		70 - 130							
o-Terphenyl	96		70 - 130							
Lab Sample ID: LCSD 880-98	334/3-A					Clie	ent San	nple ID: L	ab Control San	nole Dup
Matrix: Solid									Prep Type:	
Analysis Batch: 9827									Prep Bat	
			Spike	LCSD	LCSD				%Rec.	RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits RP	D Limit
Gasoline Range Organics			1000	825.7		mg/Kg		83	70 - 130	0 20
(GRO)-C6-C10										
Diesel Range Organics (Over C10-C28)			1000	965.7		mg/Kg		97	70 - 130	5 20
0.00020)	1000	LCSD								
Surrogate	%Recovery		Limits							
1-Chlorooctane		Quanner -	70 - 130							
o-Terphenyl	89		70 - 130 70 - 130							
Lab Sample ID: 890-1428-A-3	3-D MS							Client	Sample ID: Mat	
Matrix: Solid									Prep Type:	
Analysis Batch: 9827									Prep Bat	ch: 9834
	-	Sample	Spike		MS				%Rec.	
Analyte		Qualifier	Added		Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics (GRO)-C6-C10	3310		998	4234		mg/Kg		92	70 - 130	
	MS	MS								
Surrogate	%Recovery	Qualifier	Limits							

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**Released to Imaging: 4/27/2022 11:07:44 AM** 

# **QC Sample Results**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

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7

### Job ID: 890-1432-1 SDG: 31402909.130

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

Matrix: Solid										ype: To	
Analysis Batch: 9827									Pre	p Batch	: 9834
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limi
Gasoline Range Organics (GRO)-C6-C10	3310		1000	4491		mg/Kg		118	70 - 130	6	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
1-Chlorooctane	268	S1+	70 - 130								
o-Terphenyl	203	S1+	70 - 130								
lethod: 300.0 - Anions	, Ion Chromat	ography									

Analysis Batch: 9997								
	MB	MB						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/20/21 14:14	1

Lab Sample ID: LCS 880-9752/2-A					Client	Sample	ID: Lab C	ontrol Sample
Matrix: Solid							Prep	Type: Soluble
Analysis Batch: 9997								
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	231.7		mg/Kg		93	90 - 110	

Lab Sample ID: LCSD 880-9752/3-A Matrix: Solid Analysis Batch: 9997					Clier	nt Sam	ple ID:	Lab Contro Prep	ol Sample Type: Se	
		Spike	LCSD	LCSD				%Rec.		RPD
	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
	Chloride	250	229.5		mg/Kg		92	90 _ 110	1	20

Lab Sample ID: 890-1432-3 MS									Client Sample	D: PH01B
Matrix: Solid									Prep Ty	pe: Soluble
Analysis Batch: 9997										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	911	F1	251	1036	F1	mg/Kg		50	90 - 110	
Lab Sample ID: 890-1432-3 MSD Matrix: Solid								1	Client Sample Prep Ty	e ID: PH01B pe: Soluble
Analysis Batch: 9997	Sample	Sample	Spike	MSD	MSD				%Rec.	RPD

Result Qualifier

1071 F1

Unit

mg/Kg

D

%Rec

64

Limits

90 - 110

Added

251

Result Qualifier

911 F1

RPD

3

Limit

20

_____

Analyte

Chloride

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Job ID: 890-1432-1 SDG: 31402909.130

### **GC VOA**

### Prep Batch: 9747

Lab Sample ID MB 880-9747/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
rep Batch: 9748					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	5035	
890-1432-2	PH01A	Total/NA	Solid	5035	
890-1432-3	PH01B	Total/NA	Solid	5035	
890-1432-4	PH01C	Total/NA	Solid	5035	
890-1432-5	PH01D	Total/NA	Solid	5035	
MB 880-9748/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1428-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
890-1428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
nalysis Batch: 9846					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	8021B	9748
890-1432-2	PH01A	Total/NA	Solid	8021B	9748
890-1432-3	PH01B	Total/NA	Solid	8021B	9748
890-1432-4	PH01C	Total/NA	Solid	8021B	9748

### Analysis Batch: 9846

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	8021B	9748
890-1432-2	PH01A	Total/NA	Solid	8021B	9748
890-1432-3	PH01B	Total/NA	Solid	8021B	9748
890-1432-4	PH01C	Total/NA	Solid	8021B	9748
890-1432-5	PH01D	Total/NA	Solid	8021B	9748
MB 880-9747/5-A	Method Blank	Total/NA	Solid	8021B	9747
MB 880-9748/5-A	Method Blank	Total/NA	Solid	8021B	9748
LCS 880-9748/1-A	Lab Control Sample	Total/NA	Solid	8021B	9748
LCSD 880-9748/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9748
890-1428-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	9748
890-1428-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9748

### Prep Batch: 9911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	5035	
890-1432-2	PH01A	Total/NA	Solid	5035	
890-1432-3	PH01B	Total/NA	Solid	5035	
890-1432-4	PH01C	Total/NA	Solid	5035	
MB 880-9911/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 10084

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	8021B	9911
890-1432-2	PH01A	Total/NA	Solid	8021B	9911
890-1432-3	PH01B	Total/NA	Solid	8021B	9911
890-1432-4	PH01C	Total/NA	Solid	8021B	9911
MB 880-9911/5-A	Method Blank	Total/NA	Solid	8021B	9911
LCS 880-9911/1-A	Lab Control Sample	Total/NA	Solid	8021B	9911
LCSD 880-9911/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	9911
890-1434-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	9911

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8

Job ID: 890-1432-1 SDG: 31402909.130

# GC VOA (Continued)

### Analysis Batch: 10084 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1434-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	9911
nalysis Batch: 10147					
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
390-1432-1	PH01	Total/NA	Solid	Total BTEX	
390-1432-2	PH01A	Total/NA	Solid	Total BTEX	
390-1432-3	PH01B	Total/NA	Solid	Total BTEX	
90-1432-4	PH01C	Total/NA	Solid	Total BTEX	
90-1432-5	PH01D	Total/NA	Solid	Total BTEX	

### GC Semi VOA

### Analysis Batch: 9621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch	
890-1432-1	PH01	Total/NA	Solid	8015B NM	9627	
890-1432-2	PH01A	Total/NA	Solid	8015B NM	9627	
890-1432-4	PH01C	Total/NA	Solid	8015B NM	9627	
MB 880-9627/1-A	Method Blank	Total/NA	Solid	8015B NM	9627	
LCS 880-9627/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9627	
LCSD 880-9627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9627	
890-1431-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	9627	
890-1431-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9627	

### Prep Batch: 9627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	8015NM Prep	
890-1432-2	PH01A	Total/NA	Solid	8015NM Prep	
890-1432-4	PH01C	Total/NA	Solid	8015NM Prep	
MB 880-9627/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9627/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9627/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1431-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1431-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Analysis Batch: 9827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-3	PH01B	Total/NA	Solid	8015B NM	9834
890-1432-5	PH01D	Total/NA	Solid	8015B NM	9834
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015B NM	9834
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	9834
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	9834
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015B NM	9834
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	9834

### Prep Batch: 9834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-3	PH01B	Total/NA	Solid	8015NM Prep	
890-1432-5	PH01D	Total/NA	Solid	8015NM Prep	
MB 880-9834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-9834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-9834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

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# **QC Association Summary**

### Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

### GC Semi VOA (Continued)

### Prep Batch: 9834 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1428-A-3-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1428-A-3-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	
				··· · · ·	

### Analysis Batch: 10003

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1432-1	PH01	Total/NA	Solid	8015 NM	
890-1432-2	PH01A	Total/NA	Solid	8015 NM	
890-1432-3	PH01B	Total/NA	Solid	8015 NM	
890-1432-4	PH01C	Total/NA	Solid	8015 NM	
890-1432-5	PH01D	Total/NA	Solid	8015 NM	
—					

### HPLC/IC

### Leach Batch: 9752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1432-1	PH01	Soluble	Solid	DI Leach	
890-1432-2	PH01A	Soluble	Solid	DI Leach	
890-1432-3	PH01B	Soluble	Solid	DI Leach	
890-1432-4	PH01C	Soluble	Solid	DI Leach	
890-1432-5	PH01D	Soluble	Solid	DI Leach	
MB 880-9752/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1432-3 MS	PH01B	Soluble	Solid	DI Leach	
890-1432-3 MSD	PH01B	Soluble	Solid	DI Leach	

### Analysis Batch: 9997

Lab Sample ID	Client Sample ID	Ргер Туре	Matrix	Method	Prep Batch
890-1432-1	PH01	Soluble	Solid	300.0	9752
890-1432-2	PH01A	Soluble	Solid	300.0	9752
890-1432-3	PH01B	Soluble	Solid	300.0	9752
890-1432-4	PH01C	Soluble	Solid	300.0	9752
890-1432-5	PH01D	Soluble	Solid	300.0	9752
MB 880-9752/1-A	Method Blank	Soluble	Solid	300.0	9752
LCS 880-9752/2-A	Lab Control Sample	Soluble	Solid	300.0	9752
LCSD 880-9752/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	9752
890-1432-3 MS	PH01B	Soluble	Solid	300.0	9752
890-1432-3 MSD	PH01B	Soluble	Solid	300.0	9752

Page 268 of 286

5

Job ID: 890-1432-1 SDG: 31402909.130

## Lab Sample ID: 890-1432-1 Matrix: Solid

Lab Sample ID: 890-1432-2

Lab Sample ID: 890-1432-3

Matrix: Solid

Matrix: Solid

Client Sample ID: PH01 Date Collected: 10/08/21 09:42 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 22:00	MR	XEN MID
Total/NA	Prep	5035			4.98 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 06:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 14:52	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 16:01	СН	XEN MID

### **Client Sample ID: PH01A**

Date Collected: 10/08/21 09:48 Date Received: 10/14/21 12:12

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 22:20	MR	XEN MID
Total/NA	Prep	5035			5.01 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 06:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 15:25	AJ	XEN MID
Soluble	Leach	DI Leach			5.00 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 16:08	СН	XEN MID

### Client Sample ID: PH01B Date Collected: 10/08/21 10:03 Date Received: 10/14/21 12:12

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	9911	10/19/21 15:07	KL	XEN MIC
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 22:41	MR	XEN MID
Total/NA	Prep	5035			4.99 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 07:05	KL	XEN MI
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MI
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 13:27	AJ	XEN MI
Soluble	Leach	DI Leach			4.99 g	50 mL	9752	10/18/21 14:13	CA	XEN MI
Soluble	Analysis	300.0		1			9997	10/20/21 16:15	СН	XEN MID

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5 6

Job ID: 890-1432-1 SDG: 31402909.130

## Lab Sample ID: 890-1432-4 Matrix: Solid

Client Sample ID: PH01C Date Collected: 10/08/21 10:11 Date Received: 10/14/21 12:12

Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

	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	9911	10/19/21 15:07	KL	XEN MID
Total/NA	Analysis	8021B		100	5 mL	5 mL	10084	10/21/21 23:01	MR	XEN MID
Total/NA	Prep	5035			5.02 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 07:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/21/21 17:04	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9627	10/18/21 07:49	AM	XEN MID
Total/NA	Analysis	8015B NM		1			9621	10/18/21 15:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		5			9997	10/20/21 16:37	СН	XEN MID

### **Client Sample ID: PH01D**

Date Collected: 10/08/21 10:25 Date Received: 10/14/21 12:12

# Lab Sample ID: 890-1432-5

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	9748	10/18/21 14:06	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	9846	10/20/21 07:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10147	10/22/21 12:40	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			10003	10/20/21 13:58	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	9834	10/19/21 09:45	AJ	XEN MID
Total/NA	Analysis	8015B NM		1			9827	10/19/21 13:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	9752	10/18/21 14:13	CA	XEN MID
Soluble	Analysis	300.0		1			9997	10/20/21 16:44	CH	XEN MID

### Laboratory References:

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

*) of 286* 32-1 130 **2-4** olid

10

# Accreditation/Certification Summary

Client: WSP USA Inc. Project/Site: Azores Fed Com 4H Job ID: 890-1432-1 SDG: 31402909.130

### Laboratory: Eurofins Xenco, Midland

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

ority		rogram	Identification Number	Expiration Date
as	N	ELAP	T104704400-21-22	06-30-22
The following analytes	are included in this report, b	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for w
the agency does not o	fer certification.			, ,
• ,		Matrix	Analyte	
the agency does not o	fer certification.			

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Project/Site: Azores Fed Com 4H

Client: WSP USA Inc.

Job ID: 890-1432-1 SDG: 31402909.130

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 Refe	rences:		
ASTM = A	STM 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	n, November 1986 And Its Updates.	
TAL SOP =	<ul> <li>TestAmerica Laboratories, Standard Operating Procedure</li> </ul>		

### Laboratory References:

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

Eurofins Xenco, Carlsbad

Released to Imaging: 4/27/2022 11:07:44 AM

Page 273 of 286

### Job ID: 890-1432-1 SDG: 31402909.130

### Client: WSP USA Inc. Project/Site: Azores Fed Com 4H

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth	
890-1432-1	PH01	Solid	10/08/21 09:42	10/14/21 12:12	1	Λ
890-1432-2	PH01A	Solid	10/08/21 09:48	10/14/21 12:12	3	
890-1432-3	PH01B	Solid	10/08/21 10:03	10/14/21 12:12	6	5
890-1432-4	PH01C	Solid	10/08/21 10:11	10/14/21 12:12	8	
890-1432-5	PH01D	Solid	10/08/21 10:25	10/14/21 12:12	11	
						8
						9
						12
						13
						1

Company Name Address: City, State ZIP: Email: <u>kalei.jennings</u> Routine: X Rush: Due Date: Uue Date: Vwet Ice: Ves No Thermometer ID	Company Name:       Address:       City, State ZIP:       Email:       kalei.jennings@wsp.com       Turn Around       Routine:       X       Rush:       Due Date:
NH K	



# Chain of Custody

13

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900

Work Order No:

# Received by OCD: 3/18/2022 1:35:11 PM

	Custody Seals Intact: Custody Seal No ∆ Yes ∆ No	Relinquished by	Relinquished by	Relinquished by (LIPCUH, 10.14.2)	Empty Kit Relinquished by:	Deliverable Requested 1 II III IV Other (specify)	Possible Hazard Identification Unconfirmed	Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. 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 instru attention immediately If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.						PH01D (890-1432-5)	PH01C (890-1432-4)	PH01A (890-1432-2)	PH01 (890-1432-1)		Sample Identification - Client ID (Lab ID)	Site	Project Name Azores Fed Com 4H	Email	Phone: 432-704-5440(Tel)	State, Zip TX, 79701	City Midland	Address 1211 W Florida Ave	Company Eurofins Xenco	Client Contact Shipping/Receiving	Client Information (Sub Contract Lab)	1089 N Canal St. Carlsbad NM 88220 Phone. 575-988-3199 Fax 575-988-3199	
		Date/Time	Date/Time:	Z Date/Time		Primary Deliverable Rank		LLC places the ownership o latrix being analyzed the san urn the signed Chain of Cust						10/8/21	10/8/21	10/8/21	10/8/21		Sample Date	SSOW#-	Project #: 89000048	WO#	PO #		TAT Requested (days)	Due Date Requested 10/20/2021		Phone	Sampler	_	
					Date	ble Rank 2		f method anali nples must be ody attesting to						10 25 Mountain	10 11 Mountain	09 48 Mountain	09 42 Mountain	X	Sample Time						s)					Chain of Custody Record	
	_			(				yte & accredita shipped back o said complic										Preservation Code:	Sample Type (C=comp, G=grab)											f Cust	
		Company	Company	Company				tion complian to the Eurofins ance to Eurofi						Solid	Solid	Solid	Solid	on Code:	Matrix (W=water S=\$olid, O=waste/oli, T=Tissue, A=Air)									E-Mail jessic	Lab PM Krame	ody R	
					Time	Spe	Sar	ce upon o Xenco Li ns Xenco										X	Field Filtered Perform MS/				o)				Accreditations Required (See NELAP - Louisiana NEI	E-Mail lessica.kramer@eurofinset.cc	Lab PM Kramer Jessica	eco	
Γ	Cooler	Received by	Receiv	Received		Special Instructions/	Sample Disposal ( A fee	ut subc _C labo LLC.						×	×	×	×	- 3868 	8015MOD_NM								- Lou	er@e	sica	<u> </u>	
	Cooler Temperature(	ed by:	ved by	Ad	$\Lambda$	struct	le Disposal ( , Return To Clie	atory o						×××	××	× ×	x x		300_ORGFM_: 8021B/5035FP			Chion	ae				equired Isiana	Jrofing			
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l	and Other Remarks.			$\leq$		QC Requirements	may	This sa tions v										-								sis F	^{note):} LAP - Texas				
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		Ť	56-	NE			may be assessed if samples are retained longer than : Disposal By Lab	stody If the labora tatus should be br											Special In	Other [.]	EDA	Ice Di Water			3 NaOH 2 Zn Acetate		Job #: 890-1432-1	Page Page 1 of 1	COC No ⁻ 890-463 1		a eurotins
Ver 06/08/2021		Company	Company	Company			than 1 month) Months	ories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC											Special Instructions/Note:		Z - other (specify)		T TSP Dodecahydrate	P Na204S Q Na2SO3	O AsNaO2					Environment Testing America	

Job Number: 890-1432-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Carlsbad

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1432 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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	

# Login Sample Receipt Checklist

Client: WSP USA Inc.

Login Number: 1432 List Number: 2 Creator: Kramer, Jessica

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

Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").

14

Job Number: 890-1432-1 SDG Number: 31402909.130

List Source: Eurofins Xenco, Midland List Creation: 10/15/21 12:19 PM Received by OCD: 3/18/2022 1:35:11 PM

**Released to Imaging: 4/27/2022 11:07:44 AM** 

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 Page 279eof 286

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

)

Incident ID	
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

# **Location of Release Source**

Latitude	
Lautuuc	

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _

# Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
Produced Water	Volume Released (bbls)	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	1	

Page	2
1 age	4

# Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?
Yes No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

# **Initial Response**

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

The source of the release has been stopped.

The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name	Title:
Signature:	Date:
email:	Telephone:
OCD Only	
Received by: Ramona Marcus	Date: <u>8/31/2021</u>

		Discovery Date & Time:	8/22/2021 9:00 /	AM					
Received by OCD: 3/18/2022 1:35:511 PMI Release Type: Oil Mixture									Page 281eof 286
	Provide any known	details about the event: I	Internal corr.of pir	pe caused spill					
				Spill Calculation - Subsu	urface Spill - Rectangle				
	Was the rele	ease on pad or off-pad?			See reference table	e below	NAPP	2124346388	
Has it r	t rained at least a half inc	ch in the last 24 hours?			See reference table	/e below			
Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture		Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	30.0	8.0	12.00	15.16%	42.720	6.476	5.00%	0.324	6.153
Rectangle B					0.000	0.000		0.000	0.000
Rectangle C		Ī			0.000	0.000		0.000	0.000
Rectangle D					0.000	0.000		0.000	0.000
Rectangle E					0.000	0.000		0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Released to Imaging:	: 4/27/2022 11:07:44 AN	114			0.000	0.000		0.000	0.000
- Acicuscu iv Iniuging.	4/4//4V44 11:V/377.11#	11	7		Total Volume Release:	6.476		0.324	6.153

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

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

District III

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

District IV

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

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

CONDITIONS
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Operator:	OGRID:	
COG OPERATING LLC	229137	
600 W Illinois Ave Ac	Action Number:	
Midland, TX 79701	45566	
	Action Type:	
	[C-141] Release Corrective Action (C-141)	
	·	

### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	8/31/2021

Page1282eof 286 CONDITIONS

Action 45566

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Received by OCD: 3/18/2022 1:35:11 PM Form C-141 State of New Mexico

Oil Conservation Division

	Page 283 of 280
Incident ID	NAPP2124346388
District RP	
Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🗙 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🔀 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🔀 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🗙 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🗙 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🗙 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🗙 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🗙 No
Did the release impact areas <b>not</b> 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

Page 4

- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

Received by OCD.	<i>: 3/18/2022 1:35:11 PM</i> State of New Mexico			<b>Page 284 of 286</b>
Form C-141			Incident ID	NAPP2124346388
Page 5	Oil Conservation Division		District RP	
			Facility ID	
			Application ID	
regulations all op public health or the failed to adequate addition, OCD ac and/or regulations Printed Name:	Charles Beauvais	otifications and perform OCD does not relieve the reat to groundwater, such of responsibility for con	corrective actions for rele he operator of liability sho rface water, human health	ases which may endanger ould their operations have or the environment. In deral, state, or local laws
Signature:	Charles R. Beauvais II	Date: 03/17/2022		
email:Chan	rles.R.Beauvais@conocophillips.com	Telephone:	575-988-2043	
OCD Only Received by:		Date:		

Received by OCD: 3/18/2022 1:35:11 PM Form C-141 State of New Mexico

Page 5

Oil Conservation Division

Incident ID	NAPP2124346388
District RP	
Facility ID	
Application ID	

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must be included in the plan.

Detailed description of proposed remediation technique

Scaled sitemap with GPS coordinates showing delineation points

Estimated volume of material to be remediated

Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC

Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

<b>Deferral Requests Only:</b> Each of the following items must be c	onfirmed as pa	urt of any request for a	leferral of remediation.			
<u>Deterrar requests only</u> . Luch of the following terms must be e	ongi nica as pa	ar of any request for a				
Contamination must be in areas immediately under or around deconstruction.	production equ	ipment where remedia	tion could cause a major facility			
Extents of contamination must be fully delineated.						
Contamination does not cause an imminent risk to human hea	lth, the environ	ment, or groundwater.				
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.						
Printed Name:       Charles Beauvais         Signature:       Charles R. Beauvais 99	Title: _	Senior Environme	ntal Engineer			
Signature: <u>Charles R. Beauvais 11</u>	Date:	03/17/2022				
email: <u>Charles.R.Beauvais@conocophillips.com</u> Telephone: <u>575-988-2043</u>						
<u>-OCD Only</u>						
Received by:         Date:						
Approved Approved with Attached Conditions of	of Approval		Deferral Approved			
Signature: Jennifer Nobui	Date: 04	/27/2022				

•

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

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

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

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	91340
	Action Type:
	[C-141] Release Corrective Action (C-141)

### CONDITIONS

Created By		Condition Date
jnobui	Remediation Plan Approved.	4/27/2022

Page 286 of 286

Action 91340

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