

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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OIL CONS. DIV DIST. 3

JUN 25 2015

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Form C-141
Revised August 8, 2011

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace	
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479	
Facility Name: Pubco Federal Gas Com 1	Facility Type: Natural gas well	
Surface Owner: Federal	Mineral Owner: Federal	API No. 3004509439

LOCATION OF RELEASE

Unit Letter M	Section 14	Township 30N	Range 11W	Feet from the 830	North/South Line South	Feet from the 925	East/West Line West	County: San Juan
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Latitude 36.80725 Longitude 107.96624

NATURE OF RELEASE

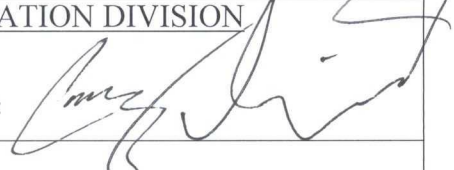
Type of Release: oil/condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: April 23, 2015; 11:00 AM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During construction operations to remove the below grade tank (BGT) soil samples under the BGT were taken. Lab analyses showed TPH ranging from 180 ppm to 2,370 ppm by Method 8015D. Benzene, total BTEX and chloride were below the BGT closure standards. The lab results indicate a release occurred at some time.

Describe Area Affected and Cleanup Action Taken.* BP excavated and removed impacted soil until the remaining soil samples resulted in TPH less than 100 ppm, which is the closure standard for this site. Approximately 672 cubic yards were transported to a landfarm for treatment. Attached is a report detailing the remediation that includes lab analysis data and a site map with locations of soil samples. Also attached is the final C-138 with soil volumes taken to the landfarm.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: 8/11/15	Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval:	Attached ☐
Date: June 23, 2015	Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

INCS 1517756805

BP America: Pubco Federal GC 1
(M) Sec 14 – T30N – R11W
API: 30-045-09439
San Juan County, New Mexico

Summary Record of Impact Remediation

April 23, 2015 Soils impacted with hydrocarbons encountered during closure of 95 barrel BGT. Sampling and initial investigation witnessed by NMOCD representative. Laboratory testing of soils determined a total petroleum hydrocarbon (TPH) content immediately below the BGT of 2,370 mg/Kg by U.S. EPA Method 8015B. Chlorides were tested at less than 30 mg/Kg and total BTEX was reported at 7.9 mg/Kg, both well below NMOCD closure standards.

The site NMOCD/BLM closure standard was determined at 100 ppm TPH based on:

Horizontal Distance to dry arroyo < 200 feet (20 points)

Nearest Water Well > 1,000 feet (0 points)

Depth to Groundwater > 100 feet (0 points)

May 26, 2015 Work crew initiates excavation of site hydrocarbon impacts. A soft sandstone discovered to be present at approximately 3-4 feet below grade, grading to a dense, crystalline sandstone at 7 feet below grade.

May 27 – June 8, 2015 Excavation and removal of all hydrocarbon impacts exceeding 100 mg/Kg TPH. Closure sampling to monitor progress of remediation conducted on May 27, May 28, June 2, June 3, June 4 and June 8. Laboratory test results found BTEX and Chlorides below standards from all sample events. Summary laboratory results for TPH testing by U.S. EPA 8015B found the following:

Sample ID	Sample Date	Map ID	TPH 8015B (mg/Kg)	Comments
95 BGT Center Dig @ -7'	5/27/2015	1	ND	Sampled Dense Sandstone below center of prior 95 BGT
SW-N @ 6' (95)	5/28/2015	2	ND	
SW-E @ 4'-5' (95)	5/28/2015	----	702	This area excavated and removed to landfarm
SW-S @ 6' (95)	5/28/2015	3	32.3	
SW-W @ 6' (95)	5/28/2015	4	47.8	
Excavation Base 5-pt At 7'	5/28/2015	5	40.5	Sampled Dense Sandstone
East Base 5-pt At 7'	6/2/2015	6	ND	Sampled Dense Sandstone
South Wall – East Side 3-pt @ 3'-6'	6/2/2015	7	ND	

North Wall – East Side 3-pt @ 3'-6'	6/2/2015	----	932	This area excavated and removed to landfarm
Extended East Wall 3-pt @ 3'-6'	6/3/2015	8	ND	
Extended North Wall 3-pt @ 3'-6'	6/4/2015	-----	479	This area excavated and removed to landfarm
Extended North Base 3-pt @ 7'	6/4/2015	9	42.4	Sampled Dense Sandstone
Extended N. Wall 3-pt @ 3'-6'	6/8/2015	10	ND	

June 8, 2015 Final excavation size approximately 75' x 28' x 7' deep within fenced location boundary, and approximately 25' x 12' x 7' deep outside fenced boundary, but within original disturbed area of wellpad. Approximate volume of soils removed and transported to BP Crouch Mesa Landfarm = 670 CY.

June 16, 2015 Excavation crew completes backfilling operation.



Excavation
Perimeter
(Average Depth
7' Below Grade)

28'

75'

Pubco Federal GC 1



60 ft



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
29-May-15 09:23

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
95 BGT Center Dig @-7'	P505069-01A	Soil	05/27/15	05/27/15	Glass Jar, 4 oz.

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5796 US Highway 64, Farmington, NM 87401

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 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 29-May-15 09:23

95 BGT Center Dig @-7'
P505069-01 (Solid)

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
Toluene	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
Ethylbenzene	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
p,m-Xylene	ND	0.19	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
o-Xylene	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
Total Xylenes	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
Total BTEX	ND	0.09	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		105 %		50-150	1522007	05/27/15	05/28/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.28	mg/kg	0.9	1522007	05/27/15	05/28/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	28.7	mg/kg	1	1522006	05/27/15	05/28/15	EPA 8015D	
Surrogate: o-Terphenyl		122 %		50-200	1522006	05/27/15	05/28/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		93.6 %		50-150	1522007	05/27/15	05/28/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	36.2	10.1	mg/kg	1	1522008	05/28/15	05/28/15	EPA 300.0	

Sample ID on Map: 1

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
29-May-15 09:23

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1522007 - Purge and Trap EPA 5030A

Blank (1522007-BLK1)

Prepared: 27-May-15 Analyzed: 28-May-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.481		"	0.404		119	50-150			

LCS (1522007-BS1)

Prepared: 27-May-15 Analyzed: 28-May-15

Benzene	20.4	0.10	mg/kg	20.9		97.4	75-125			
Toluene	18.1	0.10	"	20.9		86.7	70-125			
Ethylbenzene	19.1	0.10	"	20.9		91.1	75-125			
p,m-Xylene	41.1	0.21	"	41.8		98.2	80-125			
o-Xylene	19.5	0.10	"	20.9		93.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.439		"	0.418		105	50-150			

Matrix Spike (1522007-MS1)

Source: P505051-08

Prepared: 27-May-15 Analyzed: 28-May-15

Benzene	21.6	0.09	mg/kg	18.6	ND	116	75-125			
Toluene	19.2	0.09	"	18.6	ND	103	70-125			
Ethylbenzene	20.1	0.09	"	18.6	ND	108	75-125			
p,m-Xylene	43.4	0.19	"	37.2	ND	117	80-125			
o-Xylene	20.6	0.09	"	18.6	ND	111	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.360		"	0.372		96.9	50-150			

Matrix Spike Dup (1522007-MSD1)

Source: P505051-08

Prepared: 27-May-15 Analyzed: 28-May-15

Benzene	20.8	0.09	mg/kg	18.0	ND	116	75-125	3.37	15	
Toluene	18.6	0.09	"	18.0	ND	103	70-125	3.35	15	
Ethylbenzene	19.5	0.09	"	18.0	ND	108	75-125	3.23	15	
p,m-Xylene	42.0	0.18	"	36.0	ND	117	80-125	3.30	15	
o-Xylene	20.0	0.09	"	18.0	ND	111	75-125	2.84	15	
Surrogate: 4-Bromochlorobenzene-PID	0.349		"	0.360		96.9	50-150			

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: Jeff Blagg

Reported:
29-May-15 09:23

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522006 - DRO Extraction EPA 3550M										
Blank (1522006-BLK1)				Prepared: 27-May-15 Analyzed: 28-May-15						
Diesel Range Organics (C10-C28)	ND	28.2	mg/kg							
Surrogate: o-Terphenyl	47.3		"	45.1		105	50-200			
LCS (1522006-BS1)				Prepared: 27-May-15 Analyzed: 28-May-15						
Diesel Range Organics (C10-C28)	521	23.8	mg/kg	475		110	38-132			
Surrogate: o-Terphenyl	36.6		"	38.0		96.2	50-200			
Matrix Spike (1522006-MS1)				Source: P505051-08		Prepared: 27-May-15 Analyzed: 28-May-15				
Diesel Range Organics (C10-C28)	610	22.7	mg/kg	453	ND	135	38-132			SPK1
Surrogate: o-Terphenyl	34.2		"	36.3		94.3	50-200			
Matrix Spike Dup (1522006-MSD1)				Source: P505051-08		Prepared: 27-May-15 Analyzed: 28-May-15				
Diesel Range Organics (C10-C28)	644	26.5	mg/kg	442	ND	146	38-132	5.51	20	SPK1
Surrogate: o-Terphenyl	40.3		"	35.3		114	50-200			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 29-May-15 09:23

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522007 - Purge and Trap EPA 5030A										
Blank (1522007-BLK1)				Prepared: 27-May-15 Analyzed: 28-May-15						
Gasoline Range Organics (C6-C10)	ND	10.1	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.422		"	0.404		105	50-150			
LCS (1522007-BS1)				Prepared: 27-May-15 Analyzed: 28-May-15						
Gasoline Range Organics (C6-C10)	260	10.5	mg/kg	279		93.1	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.384		"	0.418		91.7	50-150			
Matrix Spike (1522007-MS1)				Source: P505051-08		Prepared: 27-May-15 Analyzed: 28-May-15				
Gasoline Range Organics (C6-C10)	275	9.30	mg/kg	248	ND	111	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.322		"	0.372		86.5	50-150			
Matrix Spike Dup (1522007-MSD1)				Source: P505051-08		Prepared: 27-May-15 Analyzed: 28-May-15				
Gasoline Range Organics (C6-C10)	264	9.01	mg/kg	240	ND	110	75-125	4.09	15	
Surrogate: 4-Bromochlorobenzene-FID	0.307		"	0.360		85.3	50-150			

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BP America Production Co.	Project Name:	Pubco Federal GC 1	Reported: 29-May-15 09:23
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1522008 - Anion Extraction EPA 300.0

Blank (1522008-BLK1)				Prepared & Analyzed: 28-May-15						
Chloride	ND	10.1	mg/kg							
LCS (1522008-BS1)				Prepared & Analyzed: 28-May-15						
Chloride	506	9.89	mg/kg	495		102	90-110			
Matrix Spike (1522008-MS1)				Prepared & Analyzed: 28-May-15						
Chloride	546	9.72	mg/kg	486	36.2	105	80-120			
Matrix Spike Dup (1522008-MSD1)				Prepared & Analyzed: 28-May-15						
Chloride	572	10.1	mg/kg	507	36.2	106	80-120	4.69	20	

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Project Manager: Jeff Blay

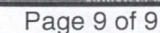
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03/43 - 0424

Page of

Correct Cont/Prsrv (s) Y/N

contact: jeff Peave



BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 01-Jun-15 15:22

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW - N @ 6' (95)	P505074-01A	Soil	05/28/15	05/28/15	Glass Jar, 4 oz.
SW - E @ 4'-5' (95)	P505074-02A	Soil	05/28/15	05/28/15	Glass Jar, 4 oz.
SW - S @ 6' (95)	P505074-03A	Soil	05/28/15	05/28/15	Glass Jar, 4 oz.
SW - W @ 6' (95)	P505074-04A	Soil	05/28/15	05/28/15	Glass Jar, 4 oz.
Excavation Base 5-pt @ 7'	P505074-05A	Soil	05/28/15	05/28/15	Glass Jar, 4 oz.

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 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 01-Jun-15 15:22

SW - N @ 6' (95)
P505074-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
Toluene	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
Ethylbenzene	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
p,m-Xylene	ND	0.18	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
o-Xylene	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
Total Xylenes	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
Total BTEX	ND	0.09	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1522011	05/29/15	05/29/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	8.78	mg/kg	0.9	1522011	05/29/15	05/29/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.9	mg/kg	1	1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: o-Terphenyl		76.8 %		50-200	1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		91.1 %		50-150	1522011	05/29/15	05/29/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	60.0	9.78	mg/kg	1	1522012	05/29/15	05/29/15	EPA 300.0	

Sample ID on Map: 2

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 01-Jun-15 15:22

SW - S @ 6' (95)
P505074-03 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
Toluene	0.15	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
Ethylbenzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
p,m-Xylene	2.31	0.20	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
o-Xylene	0.38	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
Total Xylenes	2.69	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
Total BTEX	2.84	0.10	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8021B		
Surrogate: 4-Bromochlorobenzene-PID		102 %		50-150	1522011	05/29/15	05/29/15	EPA 8021B		
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	32.3	9.98	mg/kg	1	1522011	05/29/15	05/29/15	EPA 8015D		
Diesel Range Organics (C10-C28)	ND	33.2	mg/kg	1	1522010	05/29/15	05/29/15	EPA 8015D		
Surrogate: o-Terphenyl		84.9 %		50-200	1522010	05/29/15	05/29/15	EPA 8015D		
Surrogate: 4-Bromochlorobenzene-FID		86.2 %		50-150	1522011	05/29/15	05/29/15	EPA 8015D		
Cation/Anion Analysis										
Chloride	29.9	9.92	mg/kg	1	1522012	05/29/15	05/29/15	EPA 300.0		

 Sample ID on Map: 3

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 01-Jun-15 15:22

SW - W @ 6' (95)
P505074-04 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
p,m-Xylene	ND	0.19	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.3 %		50-150		1522011	05/29/15	05/29/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.72	mg/kg	1		1522011	05/29/15	05/29/15	EPA 8015D	
Diesel Range Organics (C10-C28)	47.8	34.7	mg/kg	1		1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: o-Terphenyl		85.9 %		50-200		1522010	05/29/15	05/29/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		88.8 %		50-150		1522011	05/29/15	05/29/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	49.9	9.12	mg/kg	0.9		1522012	05/29/15	05/29/15	EPA 300.0	

 Sample ID on Map: 4

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 01-Jun-15 15:22

Excavation Base 5-pt @ 7'
P505074-05 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		104 %		50-150	1522011	05/29/15	05/29/15	05/29/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.81	mg/kg	1	1522011	05/29/15	05/29/15	05/29/15	EPA 8015D	
Diesel Range Organics (C10-C28)	40.5	26.1	mg/kg	1	1522010	05/29/15	05/29/15	05/29/15	EPA 8015D	
Surrogate: o-Terphenyl		96.2 %		50-200	1522010	05/29/15	05/29/15	05/29/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		92.1 %		50-150	1522011	05/29/15	05/29/15	05/29/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	37.1	8.41	mg/kg	0.8	1522012	05/29/15	05/29/15	05/29/15	EPA 300.0	

Sample ID on Map: 5

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 01-Jun-15 15:22

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1522011 - Purge and Trap EPA 5030A
Blank (1522011-BLK1)

Prepared: 29-May-15 Analyzed: 01-Jun-15

Benzene	ND	0.09	mg/kg							
Toluene	ND	0.09	"							
Ethylbenzene	ND	0.09	"							
p,m-Xylene	ND	0.18	"							
o-Xylene	ND	0.09	"							
Total Xylenes	ND	0.09	"							
Total BTEX	ND	0.09	"							
Surrogate: 4-Bromochlorobenzene-PID	0.474		"	0.364		130	50-150			

LCS (1522011-BS1)

Prepared: 29-May-15 Analyzed: 01-Jun-15

Benzene	19.1	0.10	mg/kg	19.3		98.8	75-125			
Toluene	17.3	0.10	"	19.3		89.8	70-125			
Ethylbenzene	17.9	0.10	"	19.3		92.7	75-125			
p,m-Xylene	39.4	0.19	"	38.6		102	80-125			
o-Xylene	18.6	0.10	"	19.3		96.3	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.474		"	0.386		123	50-150			

Matrix Spike (1522011-MS1)

Source: P505074-01

Prepared: 29-May-15 Analyzed: 01-Jun-15

Benzene	21.4	0.09	mg/kg	18.5	ND	116	75-125			
Toluene	19.3	0.09	"	18.5	ND	104	70-125			
Ethylbenzene	19.9	0.09	"	18.5	ND	107	75-125			
p,m-Xylene	42.8	0.19	"	37.1	ND	115	80-125			
o-Xylene	21.0	0.09	"	18.5	ND	113	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.433		"	0.371		117	50-150			

Matrix Spike Dup (1522011-MSD1)

Source: P505074-01

Prepared: 29-May-15 Analyzed: 01-Jun-15

Benzene	22.9	0.10	mg/kg	20.2	ND	113	75-125	6.78	15	
Toluene	21.1	0.10	"	20.2	ND	104	70-125	8.99	15	
Ethylbenzene	21.8	0.10	"	20.2	ND	108	75-125	9.31	15	
p,m-Xylene	48.2	0.20	"	40.4	ND	119	80-125	11.9	15	
o-Xylene	23.0	0.10	"	20.2	ND	114	75-125	9.26	15	
Surrogate: 4-Bromochlorobenzene-PID	0.461		"	0.404		114	50-150			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

 Reported:
 01-Jun-15 15:22

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522010 - DRO Extraction EPA 3550M										
Blank (1522010-BLK1)				Prepared & Analyzed: 29-May-15						
Diesel Range Organics (C10-C28)	ND	23.6	mg/kg							
Surrogate: o-Terphenyl	33.0		"	37.8		87.3	50-200			
LCS (1522010-BS1)				Prepared & Analyzed: 29-May-15						
Diesel Range Organics (C10-C28)	538	23.8	mg/kg	475		113	38-132			
Surrogate: o-Terphenyl	32.8		"	38.0		86.2	50-200			
Matrix Spike (1522010-MS1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Diesel Range Organics (C10-C28)	527	24.3	mg/kg	486	ND	108	38-132			
Surrogate: o-Terphenyl	33.9		"	38.9		87.3	50-200			
Matrix Spike Dup (1522010-MSD1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Diesel Range Organics (C10-C28)	514	27.3	mg/kg	454	ND	113	38-132	2.36	20	
Surrogate: o-Terphenyl	33.9		"	36.4		93.1	50-200			

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BP America Production Co.	Project Name:	Pubco Federal GC 1	Reported: 01-Jun-15 15:22
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522011 - Purge and Trap EPA 5030A										
Blank (1522011-BLK1)				Prepared: 29-May-15 Analyzed: 01-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.11	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.414		"	0.364		114	50-150			
LCS (1522011-BS1)				Prepared: 29-May-15 Analyzed: 01-Jun-15						
Gasoline Range Organics (C6-C10)	255	9.66	mg/kg	257		99.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.415		"	0.386		107	50-150			
Matrix Spike (1522011-MS1)				Source: P505074-01		Prepared: 29-May-15 Analyzed: 01-Jun-15				
Gasoline Range Organics (C6-C10)	289	9.27	mg/kg	247	ND	117	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.374		"	0.371		101	50-150			
Matrix Spike Dup (1522011-MSD1)				Source: P505074-01		Prepared: 29-May-15 Analyzed: 01-Jun-15				
Gasoline Range Organics (C6-C10)	318	10.1	mg/kg	269	ND	118	75-125	9.50	15	
Surrogate: 4-Bromochlorobenzene-FID	0.397		"	0.404		98.1	50-150			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: Jeff Blagg

Reported:
 01-Jun-15 15:22

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1522012 - Anion Extraction EPA 300.0										
Blank (1522012-BLK1)				Prepared & Analyzed: 29-May-15						
Chloride	ND	9.39	mg/kg							
LCS (1522012-BS1)				Prepared & Analyzed: 29-May-15						
Chloride	505	9.62	mg/kg	481		105	90-110			
Matrix Spike (1522012-MS1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Chloride	551	9.58	mg/kg	479	60.0	103	80-120			
Matrix Spike Dup (1522012-MSD1)				Source: P505074-01		Prepared & Analyzed: 29-May-15				
Chloride	555	9.35	mg/kg	468	60.0	106	80-120	0.614	20	

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Client: BP AMERICA
 Project: PURCO FEDERAL GC #1
 Sampler: NELSON VELEZ / Jeff Blagg
 Phone: (505) 632-1199
 Email(s): JEFF BLAGG/JEFF.PEARCE/NELSON VELEZ
 Project Manager: JEFF BLAGG

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								lab Only	
Lab WO# P505074		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsrv (s) Y/N
Job Number 03143-0424											
Page 1 of 1											

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0											
SW-N @ 6' (95)	5/28/15	1150	SOIL	4oz.-1(g)COOL	✓	✓		✓											
SW-E @ 4'-5' (95)	5/28/15	1200	SOIL	4oz.-1(g)COOL	✓	✓		✓											
SW-S @ 6' (95)	5/28/15	1145	SOIL	4oz.-1(g)COOL	✓	✓		✓											
SW-W @ 6' (95)	5/28/15	1155	SOIL	4oz.-1(g)COOL	✓	✓		✓											
Excavation Base 5-p @ -7'	"	1355	"	"	✓	✓		✓											

Relinquished by: (Signature) <i>[Signature]</i>	Date 5/28/15	Time 1445	Received by: (Signature) <i>[Signature]</i>	Date 5/28/15	Time 1445	Lab Use Only	
Relinquished by: (Signature) <i>[Signature]</i>	Date 5/28/15	Time 1501	Received by: (Signature) <i>[Signature]</i>	Date 5-28-15	Time 1501	**Received on Ice Y ☒ N T1 <u>18.6</u> T2 <u>20.9</u> T3 <u>20.6</u> AVG Temp °C <u>20.0</u>	

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area. Chain of Custody

Notes/Billing info: BP
PAYKEY: ZEVHOREME

Page 13 of 13



BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
08-Jun-15 11:26

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Base 5-pt @7'	P506012-01A	Soil	06/02/15	06/02/15	Glass Jar, 4 oz.
South Wall - East Side 3-pt @3'-6'	P506012-02A	Soil	06/02/15	06/02/15	Glass Jar, 4 oz.
North Wall - East Side 3-pt @3"-6"	P506012-03A	Soil	06/02/15	06/02/15	Glass Jar, 4 oz.

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

 Reported:
 08-Jun-15 11:26

East Base 5-pt @7'
P506012-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.5 %		50-150	1523016	06/02/15	06/04/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.95	mg/kg	1	1523016	06/02/15	06/03/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	38.6	mg/kg	2	1523017	06/02/15	06/03/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		99.4 %		50-200	1523017	06/02/15	06/03/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		99.2 %		50-150	1523016	06/02/15	06/03/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	56.8	9.96	mg/kg	1	1523018	06/03/15	06/03/15	EPA 300.0	

Sample ID on Map: 6

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Pubco Federal GC 1 Project Number: 03143-0424 Project Manager: BP America Production Co.	Reported: 08-Jun-15 11:26
---	--	------------------------------

South Wall - East Side 3-pt @3'-6'
P506012-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1523016	06/02/15	06/04/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		99.4 %		50-150	1523016	06/02/15	06/04/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.78	mg/kg	1	1523016	06/02/15	06/03/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	38.8	mg/kg	2	1523017	06/02/15	06/03/15	EPA 8015D	
Surrogate: o-Terphenyl		94.2 %		50-200	1523017	06/02/15	06/03/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		102 %		50-150	1523016	06/02/15	06/03/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	86.8	9.97	mg/kg	1	1523018	06/03/15	06/03/15	EPA 300.0	

Sample ID on Map: 7

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BP America Production Co.	Project Name:	Pubco Federal GC 1	Reported: 08-Jun-15 11:26
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	BP America Production Co.	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1523016 - Purge and Trap EPA 5030A

Blank (1523016-BLK1)				Prepared: 02-Jun-15 Analyzed: 05-Jun-15						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.19	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.379		"	0.386		98.4	50-150			

LCS (1523016-BS1)				Prepared: 02-Jun-15 Analyzed: 05-Jun-15						
Benzene	18.9	0.10	mg/kg	19.8		95.2	75-125			
Toluene	19.1	0.10	"	19.8		96.3	70-125			
Ethylbenzene	43.6	0.10	"	19.8		220	75-125			SPK1
p,m-Xylene	40.0	0.20	"	39.7		101	80-125			
o-Xylene	19.3	0.10	"	19.8		97.2	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.396		"	0.397		99.9	50-150			

Matrix Spike (1523016-MS1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 05-Jun-15				
Benzene	20.2	0.10	mg/kg	19.9	ND	102	75-125			
Toluene	20.8	0.10	"	19.9	ND	105	70-125			
Ethylbenzene	21.5	0.10	"	19.9	ND	108	75-125			
p,m-Xylene	43.8	0.20	"	39.8	ND	110	80-125			
o-Xylene	21.3	0.10	"	19.9	ND	107	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.383		"	0.398		96.4	50-150			

Matrix Spike Dup (1523016-MSD1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 05-Jun-15				
Benzene	19.7	0.10	mg/kg	19.6	ND	100	75-125	2.84	15	
Toluene	20.8	0.10	"	19.6	ND	106	70-125	0.165	15	
Ethylbenzene	21.6	0.10	"	19.6	ND	110	75-125	0.804	15	
p,m-Xylene	44.5	0.20	"	39.3	ND	113	80-125	1.59	15	
o-Xylene	21.5	0.10	"	19.6	ND	109	75-125	0.741	15	
Surrogate: 4-Bromochlorobenzene-PID	0.378		"	0.393		96.2	50-150			

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BP America Production Co.	Project Name:	Pubco Federal GC 1	Reported: 08-Jun-15 11:26
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-0244	Project Manager:	BP America Production Co.	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523016 - Purge and Trap EPA 5030A										
Blank (1523016-BLK1)				Prepared: 02-Jun-15 Analyzed: 05-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.64	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.387		"	0.386		100	50-150			
LCS (1523016-BS1)				Prepared: 02-Jun-15 Analyzed: 05-Jun-15						
Gasoline Range Organics (C6-C10)	195	9.92	mg/kg	232		84.3	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.403		"	0.397		102	50-150			
Matrix Spike (1523016-MS1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 05-Jun-15				
Gasoline Range Organics (C6-C10)	216	9.94	mg/kg	232	ND	93.2	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.390		"	0.398		98.1	50-150			
Matrix Spike Dup (1523016-MSD1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 05-Jun-15				
Gasoline Range Organics (C6-C10)	216	9.82	mg/kg	229	ND	94.2	75-125	0.180	15	
Surrogate: 4-Bromochlorobenzene-FID	0.385		"	0.393		98.0	50-150			

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
08-Jun-15 11:26

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523017 - DRO Extraction EPA 3550M										
Blank (1523017-BLK1)				Prepared: 02-Jun-15 Analyzed: 04-Jun-15						
Diesel Range Organics (C10-C28)	ND	24.8	mg/kg							
Surrogate: o-Terphenyl	36.9		"	39.7		93.1	50-200			
LCS (1523017-BS1)				Prepared: 02-Jun-15 Analyzed: 04-Jun-15						
Diesel Range Organics (C10-C28)	562	24.9	mg/kg	498		113	38-132			
Surrogate: o-Terphenyl	41.6		"	39.8		105	50-200			
Matrix Spike (1523017-MS1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 04-Jun-15				
Diesel Range Organics (C10-C28)	515	38.0	mg/kg	475	ND	109	38-132			
Surrogate: o-Terphenyl	39.9		"	38.0		105	50-200			
Matrix Spike Dup (1523017-MSD1)				Source: P505070-01		Prepared: 02-Jun-15 Analyzed: 04-Jun-15				
Diesel Range Organics (C10-C28)	587	38.3	mg/kg	478	ND	123	38-132	13.1	20	
Surrogate: o-Terphenyl	43.9		"	38.3		115	50-200			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 08-Jun-15 11:26

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523018 - Anion Extraction EPA 300.0										
Blank (1523018-BLK1)				Prepared & Analyzed: 03-Jun-15						
Chloride	ND	9.88	mg/kg							
LCS (1523018-BS1)				Prepared & Analyzed: 03-Jun-15						
Chloride	517	9.99	mg/kg	499		103	90-110			
Matrix Spike (1523018-MS1)				Source: P505067-01 Prepared & Analyzed: 03-Jun-15						
Chloride	729	9.87	mg/kg	494	208	106	80-120			
Matrix Spike Dup (1523018-MSD1)				Source: P505067-01 Prepared & Analyzed: 03-Jun-15						
Chloride	741	9.87	mg/kg	494	208	108	80-120	1.68	20	

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Client: BP AMERICA
 Project: PUBCO FEDERAL GC 1
 Sampler: JEFF BLAGG
 Phone: 505-320-1183
 Email(s): jeff peace / Jeff Blagg / Nelson Velez
 Project Manager: JEFF BLAGG

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only	
Lab WO#		GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0					Lab Number	Correct Cont/Prsrt (s) Y/N
Job Number											
P506012-01											
03143-0424											
Page 1 of 1											

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTEX by 8021	TPH by 418.1	Chloride by 300.0												
EAST BASE 5-pt @ 7'	6/2/15 7/2015	Per Jeff Blagg 6/2/15 0815	SOIL	1 x 4oz x COOL	X	X		X											1	Y
South wall - EAST side 3-pt @ 3'-6'	"	0825	"	"	X	X		X											2	1
NORTH wall - EAST side 3-pt @ 3'-6'	"	1207	"	"	X	X		X											3	L

Relinquished by: (Signature) <u>Jeff Blagg</u>	Date <u>6/2/2015</u>	Time <u>1325</u>	Received by: (Signature) <u>Diane Zappin</u>	Date <u>6/2/15</u>	Time <u>13:25</u>	Lab Use Only	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice ☒ Y / ☐ N	
						T1 <u>8.9</u>	T2 <u>7.9</u>
						AVG Temp °C <u>8.2</u>	T3 <u>7.8</u>

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____ Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.	Chain of Custody	Notes/Billing info: Bill BP Contact: Jeff Peace	Paykey: ZEVH01REME
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
08-Jun-15 15:02

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended East Well 3-pt 3'-6'	P506020-01A	Soil	06/03/15	06/03/15	Glass Jar, 4 oz.

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 08-Jun-15 15:02

Extended East Well 3-pt 3'-6'
P506020-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.2 %		50-150		1523019	06/04/15	06/04/15	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	9.93	mg/kg	1		1523019	06/04/15	06/04/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	39.7	mg/kg	2		1523020	06/04/15	06/04/15	EPA 8015D	
Surrogate: o-Terphenyl		104 %		50-200		1523020	06/04/15	06/04/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		99.2 %		50-150		1523019	06/04/15	06/04/15	EPA 8015D	
Cation/Anion Analysis										
Chloride	295	9.93	mg/kg	1		1523018	06/03/15	06/03/15	EPA 300.0	

Sample ID on Map: 8

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

 Reported:
 08-Jun-15 15:02

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1523019 - Purge and Trap EPA 5030A
Blank (1523019-BLK1)

Prepared: 03-Jun-15 Analyzed: 05-Jun-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.399		"	0.398		100	50-150			

LCS (1523019-BS1)

Prepared: 03-Jun-15 Analyzed: 05-Jun-15

Benzene	18.6	0.10	mg/kg	19.9		93.6	75-125			
Toluene	20.2	0.10	"	19.9		101	70-125			
Ethylbenzene	21.2	0.10	"	19.9		107	75-125			
p,m-Xylene	43.7	0.20	"	39.8		110	80-125			
o-Xylene	21.1	0.10	"	19.9		106	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.386		"	0.398		96.8	50-150			

Matrix Spike (1523019-MS1)

Source: P506007-04

Prepared: 03-Jun-15 Analyzed: 05-Jun-15

Benzene	17.3	0.10	mg/kg	19.0	ND	91.0	75-125			
Toluene	19.3	0.10	"	19.0	ND	102	70-125			
Ethylbenzene	20.5	0.10	"	19.0	ND	108	75-125			
p,m-Xylene	42.2	0.19	"	38.1	ND	111	80-125			
o-Xylene	20.4	0.10	"	19.0	0.11	106	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.346		"	0.381		90.7	50-150			

Matrix Spike Dup (1523019-MSD1)

Source: P506007-04

Prepared: 03-Jun-15 Analyzed: 05-Jun-15

Benzene	12.7	0.10	mg/kg	19.8	ND	63.9	75-125	31.1	15	D1
Toluene	15.0	0.10	"	19.8	ND	75.5	70-125	25.5	15	D1
Ethylbenzene	16.3	0.10	"	19.8	ND	82.1	75-125	23.0	15	D1
p,m-Xylene	33.7	0.20	"	39.7	ND	85.1	80-125	22.1	15	D1
o-Xylene	16.4	0.10	"	19.8	0.11	82.3	75-125	21.5	15	D1
Surrogate: 4-Bromochlorobenzene-PID	0.368		"	0.397		92.8	50-150			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 08-Jun-15 15:02

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523019 - Purge and Trap EPA 5030A										
Blank (1523019-BLK1)				Prepared: 03-Jun-15 Analyzed: 05-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.96	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.407		"	0.398		102	50-150			
LCS (1523019-BS1)				Prepared: 03-Jun-15 Analyzed: 05-Jun-15						
Gasoline Range Organics (C6-C10)	209	9.96	mg/kg	233		89.8	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.391		"	0.398		98.1	50-150			
Matrix Spike (1523019-MS1)				Source: P506007-04		Prepared: 03-Jun-15 Analyzed: 05-Jun-15				
Gasoline Range Organics (C6-C10)	202	9.52	mg/kg	222	ND	90.7	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.353		"	0.381		92.8	50-150			
Matrix Spike Dup (1523019-MSD1)				Source: P506007-04		Prepared: 03-Jun-15 Analyzed: 05-Jun-15				
Gasoline Range Organics (C6-C10)	160	9.91	mg/kg	231	ND	69.2	75-125	22.9	15	D1
Surrogate: 4-Bromochlorobenzene-FID	0.373		"	0.397		94.1	50-150			

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BP America Production Co.	Project Name:	Pubco Federal GC 1	Reported: 08-Jun-15 15:02
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	BP America Production Co.	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523020 - DRO Extraction EPA 3550M										
Blank (1523020-BLK1)				Prepared: 03-Jun-15 Analyzed: 04-Jun-15						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	40.6		"	40.0		102	50-200			
LCS (1523020-BS1)				Prepared: 03-Jun-15 Analyzed: 04-Jun-15						
Diesel Range Organics (C10-C28)	546	24.9	mg/kg	498		110	38-132			
Surrogate: o-Terphenyl	40.6		"	39.9		102	50-200			
Matrix Spike (1523020-MS1)				Source: P506007-04		Prepared: 03-Jun-15 Analyzed: 04-Jun-15				
Diesel Range Organics (C10-C28)	1790	40.0	mg/kg	500	1100	140	38-132			SPK1
Surrogate: o-Terphenyl	50.1		"	40.0		125	50-200			
Matrix Spike Dup (1523020-MSD1)				Source: P506007-04		Prepared: 03-Jun-15 Analyzed: 04-Jun-15				
Diesel Range Organics (C10-C28)	1690	39.2	mg/kg	490	1100	121	38-132	5.99	20	
Surrogate: o-Terphenyl	46.3		"	39.2		118	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Pubco Federal GC 1 Project Number: 03143-0424 Project Manager: BP America Production Co.	Reported: 08-Jun-15 15:02
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Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523018 - Anion Extraction EPA 300.0										
Blank (1523018-BLK1)				Prepared & Analyzed: 03-Jun-15						
Chloride	ND	9.88	mg/kg							
LCS (1523018-BS1)				Prepared & Analyzed: 03-Jun-15						
Chloride	517	9.99	mg/kg	499		103	90-110			
Matrix Spike (1523018-MS1)				Source: P505067-01 Prepared & Analyzed: 03-Jun-15						
Chloride	729	9.87	mg/kg	494	208	106	80-120			
Matrix Spike Dup (1523018-MSD1)				Source: P505067-01 Prepared & Analyzed: 03-Jun-15						
Chloride	741	9.87	mg/kg	494	208	108	80-120	1.68	20	

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 04143-0424
Project Manager: BP America Production Co.

Reported:
09-Jun-15 10:52

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended North Wall 3-pt @7'	P506024-01A	Soil	06/04/15	06/04/15	Glass Jar, 4 oz.
Extended North Base 3-pt @7'	P506024-02A	Soil	06/04/15	06/04/15	Glass Jar, 4 oz.

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 04143-0424
 Project Manager: BP America Production Co.

Reported:
 09-Jun-15 10:52

Extended North Base 3-pt @7'
P506024-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
Toluene	0.38	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
Ethylbenzene	0.18	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
p,m-Xylene	3.17	0.20	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
o-Xylene	0.69	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
Total Xylenes	3.86	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
Total BTEX	4.43	0.10	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.8 %		50-150	1523031	06/04/15	06/05/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	42.4	9.89	mg/kg	1	1523031	06/04/15	06/05/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	38.7	mg/kg	2	1523032	06/04/15	06/05/15	EPA 8015D	
<i>Surrogate: o-Terphenyl</i>		104 %		50-200	1523032	06/04/15	06/05/15	EPA 8015D	
<i>Surrogate: 4-Bromochlorobenzene-FID</i>		96.5 %		50-150	1523031	06/04/15	06/05/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	10.1	mg/kg	1	1523033	06/05/15	06/05/15	EPA 300.0	

Sample ID on Map: 9

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 04143-0424
 Project Manager: BP America Production Co.

 Reported:
 09-Jun-15 10:52

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1523031 - Purge and Trap EPA 5030A

Blank (1523031-BLK1)

Prepared: 04-Jun-15 Analyzed: 08-Jun-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.19	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							

Surrogate: 4-Bromochlorobenzene-PID	0.347		"	0.384		90.4	50-150
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LCS (1523031-BS1)

Prepared: 04-Jun-15 Analyzed: 08-Jun-15

Benzene	19.4	0.10	mg/kg	19.9		97.5	75-125
Toluene	19.0	0.10	"	19.9		95.4	70-125
Ethylbenzene	18.7	0.10	"	19.9		93.7	75-125
p,m-Xylene	37.6	0.20	"	39.8		94.5	80-125
o-Xylene	18.3	0.10	"	19.9		91.7	75-125

Surrogate: 4-Bromochlorobenzene-PID	0.366		"	0.398		91.9	50-150
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Matrix Spike (1523031-MS1)

Source: P506024-01

Prepared: 04-Jun-15 Analyzed: 08-Jun-15

Benzene	21.5	0.10	mg/kg	19.6	0.11	109	75-125
Toluene	24.8	0.10	"	19.6	3.10	111	70-125
Ethylbenzene	22.1	0.10	"	19.6	1.97	103	75-125
p,m-Xylene	66.6	0.20	"	39.1	25.1	106	80-125
o-Xylene	26.8	0.10	"	19.6	5.58	108	75-125

Surrogate: 4-Bromochlorobenzene-PID	0.337		"	0.391		86.2	50-150
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Matrix Spike Dup (1523031-MSD1)

Source: P506024-01

Prepared: 04-Jun-15 Analyzed: 08-Jun-15

Benzene	20.9	0.10	mg/kg	19.3	0.11	108	75-125	2.46	15
Toluene	23.5	0.10	"	19.3	3.10	106	70-125	5.38	15
Ethylbenzene	21.6	0.10	"	19.3	1.97	102	75-125	2.41	15
p,m-Xylene	61.6	0.19	"	38.6	25.1	94.5	80-125	7.81	15
o-Xylene	25.6	0.10	"	19.3	5.58	104	75-125	4.37	15

Surrogate: 4-Bromochlorobenzene-PID	0.327		"	0.386		84.6	50-150
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 04143-0424
 Project Manager: BP America Production Co.

Reported:
 09-Jun-15 10:52

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523031 - Purge and Trap EPA 5030A										
Blank (1523031-BLK1)				Prepared: 04-Jun-15 Analyzed: 08-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.59	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.340		"	0.384		88.6	50-150			
LCS (1523031-BS1)				Prepared: 04-Jun-15 Analyzed: 08-Jun-15						
Gasoline Range Organics (C6-C10)	221	9.96	mg/kg	265		83.2	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.354		"	0.398		88.8	50-150			
Matrix Spike (1523031-MS1)				Source: P506024-01		Prepared: 04-Jun-15 Analyzed: 08-Jun-15				
Gasoline Range Organics (C6-C10)	498	9.79	mg/kg	261	248	96.0	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.357		"	0.391		91.2	50-150			
Matrix Spike Dup (1523031-MSD1)				Source: P506024-01		Prepared: 04-Jun-15 Analyzed: 08-Jun-15				
Gasoline Range Organics (C6-C10)	475	9.66	mg/kg	257	248	88.1	75-125	4.83	15	
Surrogate: 4-Bromochlorobenzene-FID	0.350		"	0.386		90.5	50-150			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 04143-0424
 Project Manager: BP America Production Co.

Reported:
 09-Jun-15 10:52

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523032 - DRO Extraction EPA 3550M										
Blank (1523032-BLK1)				Prepared: 04-Jun-15 Analyzed: 05-Jun-15						
Diesel Range Organics (C10-C28)	ND	23.7	mg/kg							
Surrogate: o-Terphenyl	41.2		"	37.9		109	50-200			
LCS (1523032-BS1)				Prepared: 04-Jun-15 Analyzed: 05-Jun-15						
Diesel Range Organics (C10-C28)	567	24.6	mg/kg	492		115	38-132			
Surrogate: o-Terphenyl	42.9		"	39.4		109	50-200			
Matrix Spike (1523032-MS1)				Source: P506024-01		Prepared: 04-Jun-15 Analyzed: 05-Jun-15				
Diesel Range Organics (C10-C28)	898	38.0	mg/kg	475	231	140	38-132			SPK1
Surrogate: o-Terphenyl	45.2		"	38.0		119	50-200			
Matrix Spike Dup (1523032-MSD1)				Source: P506024-01		Prepared: 04-Jun-15 Analyzed: 05-Jun-15				
Diesel Range Organics (C10-C28)	862	38.2	mg/kg	478	231	132	38-132	4.10	20	
Surrogate: o-Terphenyl	44.4		"	38.2		116	50-200			

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 04143-0424
 Project Manager: BP America Production Co.

Reported:
 09-Jun-15 10:52

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1523033 - Anion Extraction EPA 300.0										
Blank (1523033-BLK1)				Prepared & Analyzed: 05-Jun-15						
Chloride	ND	10.0	mg/kg							
LCS (1523033-BS1)				Prepared & Analyzed: 05-Jun-15						
Chloride	501	9.82	mg/kg	491		102	90-110			
Matrix Spike (1523033-MS1)				Source: P506024-01 Prepared & Analyzed: 05-Jun-15						
Chloride	530	9.90	mg/kg	495	14.4	104	80-120			
Matrix Spike Dup (1523033-MSD1)				Source: P506024-01 Prepared & Analyzed: 05-Jun-15						
Chloride	536	10.0	mg/kg	501	14.4	104	80-120	1.13	20	

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Client: BP AMERICA

Project: PUBCO FEDERAL GC 1

Sampler: J. Blagg

Phone: 320-1183

Email(s): jpeace / jblagg / uveloz

Project Manager: j-blagg



1d
3d

Lab Use Only	Analysis and Method							lab Only
Lab WO#	RO by 8015	8021	418.1	e by 300.0				lab Number
Job Number								
P 506024								
03143-0424								
1 of 1								

Page

[illegible]

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: Bill BP

contact: Jeff Pearce

Paykey: ZEVH01REMF



5796 US Highway 64, Farmington, NM 87401

Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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Page 10 of 10

BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
10-Jun-15 15:38

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Extended N. Wall 3-pt @ 3'-6'	P506037-01A	Soil	06/08/15	06/08/15	Glass Jar, 4 oz.

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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 10-Jun-15 15:38

Extended N. Wall 3-pt @ 3'-6'
P506037-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
p,m-Xylene	ND	0.19	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150		1524005	06/08/15	06/09/15	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.51	mg/kg	1	1524005	06/08/15	06/09/15	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	24.2	mg/kg	1	1524006	06/08/15	06/09/15	EPA 8015D	
Surrogate: o-Terphenyl		74.0 %	50-200		1524006	06/08/15	06/09/15	EPA 8015D	
Surrogate: 4-Bromochlorobenzene-FID		97.5 %	50-150		1524005	06/08/15	06/09/15	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.98	mg/kg	1	1524007	06/09/15	06/09/15	EPA 300.0	

Sample ID on Map: 10

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
10-Jun-15 15:38

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1524005 - Purge and Trap EPA 5030A

Blank (1524005-BLK1)

Prepared: 08-Jun-15 Analyzed: 09-Jun-15

Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	0.371		"	0.398		93.2	50-150			

LCS (1524005-BS1)

Prepared: 08-Jun-15 Analyzed: 10-Jun-15

Benzene	21.5	0.10	mg/kg	19.8		109	75-125			
Toluene	21.2	0.10	"	19.8		107	70-125			
Ethylbenzene	21.0	0.10	"	19.8		106	75-125			
p,m-Xylene	43.3	0.20	"	39.5		109	80-125			
o-Xylene	20.5	0.10	"	19.8		104	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.367		"	0.395		92.9	50-150			

Matrix Spike (1524005-MS1)

Source: P506037-01

Prepared: 08-Jun-15 Analyzed: 10-Jun-15

Benzene	20.4	0.09	mg/kg	18.3	ND	111	75-125			
Toluene	19.8	0.09	"	18.3	ND	108	70-125			
Ethylbenzene	44.0	0.09	"	18.3	ND	240	75-125			SPK1
p,m-Xylene	40.7	0.18	"	36.7	ND	111	80-125			
o-Xylene	19.3	0.09	"	18.3	ND	105	75-125			
Surrogate: 4-Bromochlorobenzene-PID	0.354		"	0.367		96.5	50-150			

Matrix Spike Dup (1524005-MSD1)

Source: P506037-01

Prepared: 08-Jun-15 Analyzed: 10-Jun-15

Benzene	21.9	0.10	mg/kg	19.8	ND	111	75-125	7.25	15	
Toluene	21.3	0.10	"	19.8	ND	108	70-125	7.53	15	
Ethylbenzene	21.9	0.10	"	19.8	ND	111	75-125	67.2	15	D1
p,m-Xylene	43.9	0.20	"	39.5	ND	111	80-125	7.50	15	
o-Xylene	21.0	0.10	"	19.8	ND	106	75-125	8.21	15	
Surrogate: 4-Bromochlorobenzene-PID	0.382		"	0.395		96.7	50-150			

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envirotech-inc.com
laboratory@envirotech-inc.com

BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 10-Jun-15 15:38

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1524005 - Purge and Trap EPA 5030A										
Blank (1524005-BLK1)				Prepared: 08-Jun-15 Analyzed: 09-Jun-15						
Gasoline Range Organics (C6-C10)	ND	9.95	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	0.371		"	0.398		93.3	50-150			
LCS (1524005-BS1)				Prepared: 08-Jun-15 Analyzed: 10-Jun-15						
Gasoline Range Organics (C6-C10)	210	9.88	mg/kg	231		91.0	80-120			
Surrogate: 4-Bromochlorobenzene-FID	0.363		"	0.395		91.8	50-150			
Matrix Spike (1524005-MS1)				Source: P506037-01		Prepared: 08-Jun-15 Analyzed: 10-Jun-15				
Gasoline Range Organics (C6-C10)	214	9.17	mg/kg	214	ND	99.9	75-125			
Surrogate: 4-Bromochlorobenzene-FID	0.356		"	0.367		97.1	50-150			
Matrix Spike Dup (1524005-MSD1)				Source: P506037-01		Prepared: 08-Jun-15 Analyzed: 10-Jun-15				
Gasoline Range Organics (C6-C10)	220	9.88	mg/kg	231	ND	95.3	75-125	2.73	15	
Surrogate: 4-Bromochlorobenzene-FID	0.384		"	0.395		97.1	50-150			

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 laboratory@envirotech-inc.com

BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Pubco Federal GC 1
 Project Number: 03143-0424
 Project Manager: BP America Production Co.

Reported:
 10-Jun-15 15:38

Nonhalogenated Organics by 8015 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1524006 - DRO Extraction EPA 3550M										
Blank (1524006-BLK1)				Prepared: 08-Jun-15 Analyzed: 09-Jun-15						
Diesel Range Organics (C10-C28)	ND	25.3	mg/kg							
Surrogate: o-Terphenyl	33.7		"	40.5		83.3	50-200			
LCS (1524006-BS1)				Prepared: 08-Jun-15 Analyzed: 09-Jun-15						
Diesel Range Organics (C10-C28)	466	24.9	mg/kg	499		93.5	38-132			
Surrogate: o-Terphenyl	36.4		"	39.9		91.2	50-200			
Matrix Spike (1524006-MS1)				Source: P506037-01		Prepared: 08-Jun-15 Analyzed: 09-Jun-15				
Diesel Range Organics (C10-C28)	396	24.8	mg/kg	496	ND	80.0	38-132			
Surrogate: o-Terphenyl	32.3		"	39.7		81.4	50-200			
Matrix Spike Dup (1524006-MSD1)				Source: P506037-01		Prepared: 08-Jun-15 Analyzed: 09-Jun-15				
Diesel Range Organics (C10-C28)	416	25.4	mg/kg	507	ND	82.0	38-132	4.90	20	
Surrogate: o-Terphenyl	30.9		"	40.6		76.2	50-200			

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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Pubco Federal GC 1
Project Number: 03143-0424
Project Manager: BP America Production Co.

Reported:
10-Jun-15 15:38

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1524007 - Anion Extraction EPA 300.0										
Blank (1524007-BLK1)				Prepared & Analyzed: 09-Jun-15						
Chloride	ND	10.1	mg/kg							
LCS (1524007-BS1)				Prepared & Analyzed: 09-Jun-15						
Chloride	505	9.91	mg/kg	496		102	90-110			
Matrix Spike (1524007-MS1)				Source: P506037-01 Prepared & Analyzed: 09-Jun-15						
Chloride	521	9.93	mg/kg	497	ND	105	80-120			
Matrix Spike Dup (1524007-MSD1)				Source: P506037-01 Prepared & Analyzed: 09-Jun-15						
Chloride	534	10.2	mg/kg	508	ND	105	80-120	2.42	20	

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laboratory@envirotech-inc.com

Client: BP AMERICA
 Project: PBco FED GC 1
 Sampler: J. Blagg
 Phone: 320-1183
 Email(s): J. Peace/J. Blagg/N. Velez
 Project Manager: J. Blagg

RUSH?

☒ 1d
☐ 3d

Lab Use Only		Analysis and Method								Lab Only		
Lab WO#		GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0						Lab Number	Correct Cont/Prsrtv (s) Y/N
P506037												
Job Number												
03143-0424												

Page 1 of 1

Sample ID	Sample Date	Sample Time	Matrix	Containers QTY - Vol/TYPE/Preservative	GRO/DRO by 8015	BTX by 8021	TPH by 418.1	Chloride by 300.0										
Extended N. wall 3-pt @ 3'-6"	6/8/2015	1053	SOIL	1 x 4oz x cal	X	X		X										
Relinquished by: (Signature) <u>J. Blagg</u>	Date <u>6/8/2015</u>	Time <u>1134</u>	Received by: (Signature) <u>J. Blagg</u>	Date <u>6/8/15</u>	Time <u>1134</u>	Lab Use Only												
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	**Received on Ice <u>Y</u> / N T1 <u>19.2</u> T2 _____ T3 _____ AVG Temp °C <u>19.2</u>												

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other _____

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

**Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6C on subsequent days.

☐ Sample(s) dropped off after hours to a secure drop off area.

Chain of Custody

Notes/Billing info: BU BP Pay to: ZEVHOIREME



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District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-138
Revised March 12, 2007

*Surface Waste Management Facility Operator
and Generator shall maintain and make this
documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: BP America Production Co. * 200 Energy Court * Farmington, NM 87401	
2. Originating Site: Pubco Federal Gas Com 1 - SW/4 Section 14, T30N, R11W	
3. Location of Material (Street Address, City, State or ULSTR): Pubco Federal Gas Com 1 - SW/4 Section 14, T30N, R11W or Physical Address: 200 Energy Court, Farmington, NM 87401	
4. Source and Description of Waste: Hydrocarbon impacted soil due to condensate release Estimated Volume: 500 yd ³ / bbls Known Volume (to be entered by the operator at the end of the haul) 42 yd ³ / bbls	
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS I, Jeff Peace, representative or authorized agent for BP America Production Company do hereby Generator Signature certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification) ☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with exempt waste. Operator Use Only: Waste Acceptance Frequency ☒ Monthly ☐ Weekly ☐ Per Load ☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste haz characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, pa subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardou the appropriate items) ☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Bo GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS I, Jeff Peace, representative for BP America do hereby certify that Representative/Agent Signature representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. Th of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 c 19.15.36 NMAC.	
6. Transporter: Crossfire Rosenbaum	

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: JFJ Landfarm) / Industrial Ecosystem, Inc. Permit No. NM 01-0010B

Address of Facility: # 49 CR 3150 Aztec, NM 87410

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

RINT NAME: K. Selph

TITLE: Clerk

DATE: 5/28/15

SIGNATURE: K. Selph
Surface Waste Management Facility Authorized Agent

TELEPHON 505-632-1782 FAX NO.: 505-632-1876 or 505-334-1003

5/26/15