

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party BPX Energy (formerly BP America Production Co.)	OGRID 778	Final Closure Report
Contact Name Steve Moskal	Contact Telephone (505) 330-9179	
Contact email Steven.Moskal@bpx.com	Incident # (assigned by OCD) NVF1905641336	
Contact mailing address 1199 Main Ave., Suite 101, Durango, CO 81301		

Location of Release Source

Latitude **36.842799** Longitude **-107.761511**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Florance L 019	Site Type Natural Gas Well
Date Release Discovered February 18, 2019	API# (if applicable) 30-045-09916

Unit Letter	Section	Township	Range	County
H	3	30N	9W	San Juan

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) Unknown	Volume Recovered (bbls) None
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☒ Condensate	Volume Released (bbls) Unknown	Volume Recovered (bbls) None
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release: **Origin of impacted soils/bedrock sandstone identified as overflow(s) from 120 bbl BGT.**

Total Petroleum Hydrocarbons (TPH), benzene, benzene/toluene/ethylbenzene/total xylenes (BTEX), exceeded the below-grade tank (BGT) permit closure standards for confirmation sample.

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release? Although the remediated impacted media was substantial based on quantity, a majority of the volume appeared to be legacy in nature.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Not required.	

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 <u>not</u> 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: <u>Steve Moskal</u>	Title: <u>Environmental Coordinator</u>
Signature: _____	Date: _____
email: <u>Steven.Moskal@bpx.com</u>	Telephone: <u>(505) 330-9179</u>
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: <i>Each of the following items must be included in the report.</i> ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. ☐ Field data ☐ Data table of soil contaminant concentration data ☐ Depth to water determination ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release ☐ Boring or excavation logs ☐ Photographs including date and GIS information ☐ Topographic/Aerial maps ☐ Laboratory data including chain of custody
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If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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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: Steve Moskal Title: Environmental Coordinator

Signature: _____ Date: _____

email: Steven.Moskal@bpx.com Telephone: (505) 330-9179

OCD Only

Received by: _____ Date: _____

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

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Closure

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

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

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

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

Printed Name: Steve Moskal

Title: Environmental Coordinator

Signature: _____

Date: December 4, 2019

email: Steven.Moskal@bpx.com

Telephone: (505) 330-9179

OCD Only

Received by: OCD

Date: 12/4/19

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

Closure Approved by: 

Date: 2/20/2020

Printed Name: Cory

Title: Environmental Specialist

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 019

API #: 30-045-09916

Incident #: NVF1905641336

(H) Sec 3 – T30N – R09W, San Juan County, New Mexico

Summary Record of Impacted Soils Remediation

<u>February 13, 2019</u>	Prior to the 120 barrel below-grade tank (bgt) confirmation sampling event, a ground surface release was observed around the bgt perimeter. After removal of the bgt, a five (5) point composite (5pc) & grab samples were collected.
<u>February 15, 2019</u>	5pc lab results were as follows; benzene = 3.2 mg/Kg; benzene, toluene, ethylbenzene, and total xylenes (BTEX) = 163.5 mg/Kg; total TPH = 10,200 mg/Kg; chloride = <60 mg/Kg. grab lab results were as follows; benzene = 0.55 mg/Kg; benzene, toluene, ethylbenzene, and total xylenes (BTEX) = 198.55 mg/Kg; total TPH = 7,500 mg/Kg; chloride = <59 mg/Kg. <u>Official date of impact discovery (see Release Investigation Section).</u>
<u>February 18, 2019</u>	BPX Form C-141 Initial Report & Remediation Plan draft completed. Submitted & received by the New Mexico Oil Conservation Division (NMOCD) on 02/20/2019 (<u>NMOCD online file: 30045099160000_50_wf.pdf</u>).
<u>June 26, 2019</u>	Initiated release investigation and remediation simultaneously via excavation and soil shredding (<u>see Site Remediation Section</u>).
<u>July 26, 2019</u>	Collected final sample for closure. <u>Summary tables (1 & 2) of results listed on following pages.</u>
<u>August 1, 2019</u>	Received final treated soil sample laboratory report. <u>Summary table of results listed on following pages (see Treated Soil Remediation Section).</u>
<u>August 7, 2019</u>	Completed excavation backfilling.
<u>October 22, 2019</u>	Conducted vadose zone sampling of treated stockpile areas (<u>see Vadose Zone Confirmation Section</u>).
<u>October 29, 2019</u>	Received 10/22/2019 vadose zone soil sample final laboratory report. <u>Summary table of results listed on following pages.</u>

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 019

(H) Sec 3 – T30N – R9W | San Juan County, New Mexico

API: 30-045-09916 | Incident #: NVF1905641336

Sampling Test Results of Initial Release Investigation of 120 bbl BGT

Updated: July 3, 2019

Excavation Size: 40' x 35' x 20' Deep

Sample ID	# pts. of Comp.	Comp. Depth or Range	Date	Time	Field OVM	Benzene	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	TPH (GRO +DRO)	TPH total	Cl-
		(feet)			(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
East Trench	NA	6	06/26/19	12:09	49.9	ND	ND	ND	ND	ND	ND	ND	ND
Source	NA	14	06/26/19	13:16	923	0.0890	32.889	287	357	279	644	923	ND
Source	NA	20	06/27/19	11:45	2,712	0.416	115.306	863	1,040	809	1,903	2,712	ND
South	NA	15	06/27/19	14:30	31	ND	ND	ND	30.5	218	30.5	248.5	ND
SE	NA	15	06/27/19	14:35	2,844	ND	6.024	55.1	179	168	234.1	402.1	ND
West Wall	NA	18	07/01/19	16:23	2,630	0.0713	13.6313	152	1,430	134	1,582	1,716	NA
West Wall (9'-13'-18')	3	NA	07/01/19	15:27	NA	ND	3.187	42.0	531	148	573	721	ND
NMOCD Closure Standards						10	50				1,000	2,500	20,000

Comp. = composite; OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, & total xylenes; TPH = Total Petroleum Hydrocarbons; GRO = gas range organics; DRO = diesel range organics; MRO = motor oil range organics; Cl- = chloride; NA = Not Applicable or Not Analyzed; ND = Not Detected at Laboratory Reporting Limit; NMOCD = New Mexico Oil Conservation Division.

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 019

(H) Sec 3 – T30N – R9W | San Juan County, New Mexico

API: 30-045-09916 | Incident #: NVF1905641336

Sampling Test Results of Primary Release (120 bbl BGT)

Updated: July 18, 2019

Excavation Size: 62' x 35' x 25' Deep

TABLE 1

Sample ID	# pts. of Comp.	Comp. Depth or Range	Date	Time	Field OVM	Benzene	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	TPH (GRO +DRO)	TPH total	Cl-
		(feet)			(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
West Base	6	25	07/02/19	13:32	17.3	ND	ND	ND	ND	ND	ND	ND	ND
East Base	6	25	07/02/19	13:39	860	ND	ND	ND	55.4	74.3	55.4	129.7	ND
East Wall	6	3-10	07/02/19	14:13	38	ND	ND	ND	ND	ND	ND	ND	140
East Wall	6	12-22	07/02/19	13:44	98	ND	ND	ND	38.5	56.6	38.5	95.1	ND
South Wall	6	3-10	07/02/19	14:27	86	ND	ND	ND	79.2	ND	79.2	79.2	ND
South Wall	6	12-22	07/02/19	14:01	9.0	ND	ND	ND	ND	ND	ND	ND	ND
North Wall	6	3-10	07/02/19	14:17	474	ND	ND	ND	26.0	ND	26.0	26.0	ND
North Wall	6	12-22	07/02/19	14:05	751	ND	ND	ND	170	168	170	338	ND
West Wall	6	3-10	07/02/19	14:22	3,780	0.093	76.093	632	3,310	90.9	3,942	4,033	ND
West Wall	6	12-22	07/02/19	13:52	53	ND	ND	ND	ND	ND	ND	ND	ND
South WSW	5	3-10	07/17/19	13:36	902	5.1832	0.0942	78.0	658	77.5	736	813.5	ND
North WSW	5	3-10	07/17/19	13:46	2,014	30.438	0.518	284	423	96.9	707	805.9	ND
WSW Base	6	10	07/17/19	13:41	1,533	6.471	0.0360	93.7	658	68.0	751.7	819.7	ND
NMOCD Closure Standards						10	50				1,000	2,500	20,000

Comp. = composite; OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, & total xylenes; TPH = Total Petroleum Hydrocarbons; GRO = gas range organics; DRO = diesel range organics; MRO = motor oil range organics; Cl⁻ = chloride; ND = Not Detected at Laboratory Reporting Limit; NMOCD = New Mexico Oil Conservation Division.

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 019

(H) Sec 3 – T30N – R9W | San Juan County, New Mexico

API: 30-045-09916 | Incident #: NVF1905641336

Sampling Test Results of Secondary Release (near separator unit)

Updated: July 25, 2019

Excavation Size: 65' x 35' x 25' Deep

TABLE 2

Sample ID	# pts. of Comp.	Comp. Depth or Range	Date	Time	Field OVM	Benzene	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	TPH (GRO +DRO)	TPH total	Cl-
		(feet)			(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
NW Base	5	20	07/17/19	13:52	2,861	0.196	45.156	444	825	52.9	1,269	1,321.9	ND
NW Base North ½	6	23	07/19/19	13:11	2,731	ND	28.98	354	514	ND	868	868	ND
NW Base South ½	6	23	07/19/19	13:15	3,682	ND	77.55	916	1,130	ND	2,046	2,046	28.3
NW Base South ½	6	26	07/24/19	13:36	3,751	ND	20.90	343	501	112	844	956	33.3
NW East Wall	6	0-7	07/19/19	14:35	1.6	ND	ND	ND	ND	ND	ND	ND	ND
NW East Wall	6	7-14	07/19/19	13:25	22.4	ND	ND	ND	ND	ND	ND	ND	ND
NW East Wall	6	14-22	07/19/19	13:20	9.8	ND	ND	ND	ND	ND	ND	ND	ND
NW North Wall	6	0-7	07/19/19	14:32	13.2	ND	ND	ND	25.4	ND	25.4	25.4	ND
NW North Wall	6	7-14	07/19/19	13:35	2,601	ND	5.812	105	360	ND	465	465	ND
NW North Wall	6	14-22	07/19/19	13:31	4,001	ND	11.033	169	284	ND	453	453	ND
NW West Wall	6	0-7	07/19/19	14:41	71.4	0.0583	32.1483	859	369	ND	1,228	1,228	ND
NW West Wall (II)	6	0-7	07/24/19	14:00	3,750	0.311	10.016	101	136	149	237	386	ND
NW West Wall	6	7-14	07/19/19	13:46	3,639	ND	43.61	559	827	ND	1,386	1,386	ND
NW West Wall (II)	6	7-14	07/24/19	13:48	3,750	ND	5.442	110	505	241	615	856	ND
NW West Wall Base	6	14	07/24/19	13:54	3,904	ND	32.09	446	671	164	1,117	1,281	ND
NW West Wall Base	6	17	07/26/19	11:34	1,464	ND	0.0745	ND	40.6	51.3	40.6	91.9	ND
NW West Wall	6	14-22	07/19/19	13:41	2,858	0.131	ND	ND	28.2	ND	28.2	28.2	ND
NMOCD Closure Standards						10	50				1,000	2,500	20,000

Comp. = composite; OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, & total xylenes; TPH = Total Petroleum Hydrocarbons; GRO = gas range organics; DRO = diesel range organics; MRO = motor oil range organics; Cl- = chloride; ND = Not Detected at Laboratory Reporting Limit; NMOCD = New Mexico Oil Conservation Division.

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 019

(H) Sec 3 – T30N – R9W | San Juan County, New Mexico

API: 30-045-09916 | Incident #: NVF1905641336

Treated Soil Pile (TSP) Sampling Test Results

Updated: July 30, 2019

Sample ID	Volume (Cubic Yards)	Date Created	Date Sampled	Field OVM	Benzene	BTEX	TPH (GRO)	TPH (DRO)	TPH (MRO)	TPH (GRO +DRO)	TPH Total	Cl ⁻
				(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
TSP-1	100	7/09/2019	7/10/2019	1,182	ND	0.464	49.5	121	ND	170.5	170.5	ND
TSP-2	100	7/09/2019	7/10/2019	924	ND	0.460	61.7	109	ND	170.7	170.7	ND
TSP-3	100	7/09/2019	7/10/2019	891	ND	0.305	34.1	98.9	ND	133	133	ND
TSP-4	100	7/09/2019	7/10/2019	1,090	ND	0.497	33.2	105	ND	138.2	138.2	ND
TSP-5	100	7/09/2019	7/10/2019	395	ND	0.195	24.2	70.5	ND	94.7	94.7	ND
TSP-6	100	7/09/2019	7/10/2019	915	ND	0.342	38.6	165	73.2	203.6	276.8	ND
TSP-7	100	7/10/2019	7/10/2019	538	ND	1.794	73.8	193	75.1	266.8	341.9	ND
TSP-8	100	7/10/2019	7/10/2019	1,589	0.025	3.779	113	211	71.0	324	395	ND
TSP-9	100	7/10/2019	7/10/2019	1,099	0.0275	2.147	73.4	141	61.9	214.4	276.3	ND
TSP-10	100	7/10/2019	7/10/2019	1,260	ND	1.752	74.1	116	ND	190.1	190.1	ND
TSP-11	500	7/11/2019	7/12/2019	842	ND	3.014	69.1	239	122	308.1	430.1	ND
TSP-12	500	7/11/2019	7/12/2019	941	0.0334	4.2984	65.7	269	191	334.7	525.7	ND
TSP-13	500	7/16/2019	7/17/2019	NA	ND	0.8078	339	339	322	339	661	ND
TSP-14	500	7/16/2019	7/17/2019	NA	ND	0.394	255	255	305	255	560	ND
TSP-15	500	7/23/2019	7/24/2019	NA	ND	0.8075	48.6	270	196	318.6	514.6	ND
TSP-16	500	7/23/2019	7/24/2019	NA	ND	1.1585	45.1	329	356	374.1	730.1	ND
TSP-17	500	7/25/2019	7/26/2019	964	0.028	1.979	68.8	259	133	327.8	460.8	ND
TSP-18	300	7/29/2019	7/30/2019	1,033	ND	1.2185	69.5	292	101	161.5	262.5	ND
Total:	4,800	NMOCD Closure Standards				10	50			1,000	2,500	20,000

OVM = Organic Vapor Meter; ppm = parts per million; mg/Kg = milligram per kilogram; BTEX = benzene, toluene, ethylbenzene, & total xylenes; TPH = Total Petroleum Hydrocarbons; GRO = gas range organics; DRO = diesel range organics; MRO = motor oil range organics; Cl⁻ = chloride; ND = Not Detected at Laboratory Reporting Limit; NMOCD = New Mexico Oil Conservation Division.

BPX Energy Inc.

(Formerly BP America Production Company)

Florance L 19

(H) Sec 3 – T30N – R9W | San Juan County, New Mexico

API: 30-045-09916 | Incident #: NVF1905641336

Vadose Zone Closure Sampling Test Results

October 22, 2019

(see attached aerial map of areas sampled)

Sample ID	Time	3 & 5-pt Comp. Depths (inches)	Field OVM (ppm)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	TPH (GRO + DRO) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
TSP – VZ #1	1020	6 - 8	NA	ND	ND	ND	33.7	70.0	33.7	103.7	ND
TSP – VZ #2	1045	6 - 8	NA	ND	ND	ND	ND	ND	ND	ND	ND
NMOCD Site Closure Standards -				10	50				1,000	2,500	20,000

OVM – Organic Vapor Meter, ppm – parts per million, mg/Kg – milligram per kilogram, BTEX – benzene, toluene, ethylbenzene, total xylenes, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, MRO or ORO – Motor Oil Range Organics, NA – Not Analyzed, ND – Not detected at laboratory reporting limit.

RELEASE

INVESTIGATION

BPX - FLORANCE L 019

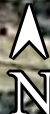
(H) Section 3, T30N, R9W
API #: 3004509916

Imagery date: 10/5/2016
WH GPS Coord.: 36.842996,-107.761930
120 BGT GPS Coord.: 36.842799,-107.761511

Florance L 19

WELL HEAD
(WH)

120 bbl BGT



100 ft

Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

June 29, 2019

Legend

30' x 18' x 20' Deep

Source @ 20'
OVM = 3,129 ppm
TPH = 2,712

Source @ 14'
OVM = 3,637 ppm
TPH = 923

East of BGT @ 6'
OVM = 49.9 ppm
TPH = ND

SE Wall @ 15'
OVM = 2,844 ppm
TPH = 402

South Wall @ 15'
OVM = 31 ppm
TPH = 248.5 ppm

Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

July 1, 2019

Legend

40' x 35' x 20' Deep

Source @ 20'
OVM = 3,129 ppm
TPH = 2,712 ppm

Source @ 14'
OVM = 3,637 ppm
TPH = 923 ppm

East of BGT @ 6'
OVM = 49.9 ppm
TPH = ND

RAMP

West Wall @ 18'
OVM = 2,630 ppm
TPH = 1,716
West Wall 3-Pt
(9'-13'-18')
TPH = 721

SE Wall @ 15'
OVM = 2,844 ppm
TPH = 402 ppm

South Wall @ 15'
OVM = 31 ppm
TPH = 248.5 ppm

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 06/28/19 15:33

East Trench @ 6'
P906115-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.3 %		50-150	1926019	06/27/19	06/27/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1926026	06/27/19	06/27/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1926026	06/27/19	06/27/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		107 %		50-200	1926026	06/27/19	06/27/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1926019	06/27/19	06/27/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1926030	06/27/19	06/27/19	EPA 300.0/9056A	
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Benzene	ND	mg/Kg
Total BTEX	ND	mg/Kg
TPH (GRO+MRO)	ND	mg/Kg
TPH (TOTAL)	ND	mg/Kg
Chloride	ND	mg/Kg

Refer to Aerial Map - June 29, 2019
(media eventually excavated)

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 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 06/28/19 15:33

Source @ 14'
P906115-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0890	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Toluene	3.65	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Ethylbenzene	2.15	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
p,m-Xylene	20.8	0.0500	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
o-Xylene	6.20	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
Total Xylenes	27.0	0.0250	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		88.5 %		50-150	1926019	06/27/19	06/27/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	357	25.0	mg/kg	1	1926026	06/27/19	06/27/19	EPA 8015D	
Oil Range Organics (C28-C40)	279	50.0	mg/kg	1	1926026	06/27/19	06/27/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		169 %		50-200	1926026	06/27/19	06/27/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	287	20.0	mg/kg	1	1926019	06/27/19	06/27/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		120 %		50-150	1926019	06/27/19	06/27/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1926030	06/27/19	06/28/19	EPA 300.0/9056A	
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Benzene	0.0890	mg/Kg
Total BTEX	32.889	mg/Kg
TPH (GRO+MRO)	644	mg/Kg
TPH (TOTAL)	923	mg/Kg
Chloride	ND	mg/Kg

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/01/19 15:09

Source @ 20'
P906119-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.416	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
Toluene	5.85	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
Ethylbenzene	7.04	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
p,m-Xylene	78.9	0.500	mg/kg	10	1926029	06/27/19	06/28/19	EPA 8021B	
o-Xylene	23.3	0.250	mg/kg	10	1926029	06/27/19	06/28/19	EPA 8021B	
Total Xylenes	102	0.250	mg/kg	10	1926029	06/27/19	06/28/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		83.4 %		50-150	1926029	06/27/19	06/28/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1040	50.0	mg/kg	2	1926026	06/27/19	06/28/19	EPA 8015D	
Oil Range Organics (C28-C40)	809	100	mg/kg	2	1926026	06/27/19	06/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		349 %		50-200	1926026	06/27/19	06/28/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	863	20.0	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %		50-150	1926029	06/27/19	06/28/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1926030	06/27/19	06/27/19	EPA 300.0/9056A	
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Benzene 0.416 mg/Kg
 Total BTEX 115.306 mg/Kg
 TPH (GRO+MRO) 1,903 mg/Kg
 TPH (TOTAL) 2,712 mg/Kg
 Chloride ND mg/Kg

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 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

South @ 15'
P906119-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %		50-150	1926029	06/27/19	07/01/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	30.5	25.0	mg/kg	1	1926026	06/27/19	06/28/19	EPA 8015D	
Oil Range Organics (C28-C40)	218	50.0	mg/kg	1	1926026	06/27/19	06/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1926026	06/27/19	06/28/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1926029	06/27/19	07/01/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1926029	06/27/19	07/01/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1926030	06/27/19	06/27/19	EPA 300.0/9056A	
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Benzene	ND	mg/Kg
Total BTEX	ND	mg/Kg
TPH (GRO+MRO)	30.5	mg/Kg
TPH (TOTAL)	248.5	mg/Kg
Chloride	ND	mg/Kg

Refer to Aerial Map - June 29, 2019
(media eventually excavated)

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

SE @ 15'
P906119-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
Toluene	0.246	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
Ethylbenzene	0.398	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
p,m-Xylene	4.23	0.0500	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
o-Xylene	1.14	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
Total Xylenes	5.38	0.0250	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		89.3 %		50-150	1926029	06/27/19	06/28/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	179	25.0	mg/kg	1	1926026	06/27/19	06/28/19	EPA 8015D	
Oil Range Organics (C28-C40)	168	50.0	mg/kg	1	1926026	06/27/19	06/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		130 %		50-200	1926026	06/27/19	06/28/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	55.1	20.0	mg/kg	1	1926029	06/27/19	06/28/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %		50-150	1926029	06/27/19	06/28/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1926030	06/27/19	06/27/19	EPA 300.0/9056A	
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Benzene	ND	mg/Kg
Total BTEX	6.024	mg/Kg
TPH (GRO+MRO)	234.1	mg/Kg
TPH (TOTAL)	402.1	mg/Kg
Chloride	ND	mg/Kg

Refer to Aerial Map - June 29, 2019
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/03/19 17:03

West Wall @ 18'
P907002-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0713	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Toluene	1.24	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Ethylbenzene	1.02	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
p,m-Xylene	9.50	0.0500	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
o-Xylene	1.83	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Total Xylenes	11.3	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		87.3 %		50-150	1927001	07/02/19	07/03/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1430	50.0	mg/kg	2	1927007	07/02/19	07/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	134	100	mg/kg	2	1927007	07/02/19	07/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		162 %		50-200	1927007	07/02/19	07/02/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	152	20.0	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		121 %		50-150	1927001	07/02/19	07/03/19	EPA 8015D	

Benzene 0.0713 mg/Kg
 Total BTEX 13.6313 mg/Kg
 TPH (GRO+MRO) 1,582 mg/Kg
 TPH (TOTAL) 1,716 mg/Kg

Refer to Aerial Map - Jul 1, 2019
(media eventually excavated)

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/03/19 17:03

**West Wall 3-pt (9'-13'-18')
 P907002-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Toluene	0.266	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Ethylbenzene	0.231	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
p,m-Xylene	2.27	0.0500	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
o-Xylene	0.412	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
Total Xylenes	2.69	0.0250	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		90.7 %		50-150	1927001	07/02/19	07/03/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	531	50.0	mg/kg	2	1927007	07/02/19	07/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	148	100	mg/kg	2	1927007	07/02/19	07/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		131 %		50-200	1927007	07/02/19	07/02/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	42.0	20.0	mg/kg	1	1927001	07/02/19	07/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %		50-150	1927001	07/02/19	07/03/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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Benzene	ND	mg/Kg
Total BTEX	3.187	mg/Kg
TPH (GRO+MRO)	573	mg/Kg
TPH (TOTAL)	721	mg/Kg
Chloride	ND	mg/Kg

**Refer to Aerial Map - Jul 1, 2019
 (media eventually excavated)**

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Project Information

Chain of Custody

Page 1 of 1

Client: <u>BPX ENERGY</u>		Report Attention		Lab Use Only		TAT		EPA Program				
Project: <u>FLORANCE L 19</u>		Report due by: <u>JUNE 28, 2019</u>		Lab WO# <u>P 906119</u>		Job Number <u>03143-0424</u>		1D	3D	RCRA	CWA	SDWA
Project Manager: <u>STEVE MOSKAL</u>		Attention: <u>STEVE MOSKAL / JEFF BLANK</u>						☒				
Address:		Address:								State		
City, State, Zip		City, State, Zip								NM CO UT AZ		
Phone: <u>505-330-9179</u>		Phone:								☒		
Email:		Email:										

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1							Remarks
1145	6/27/2019	SOIL	1	SOURCE @ 20'	1	X	X	X			X								
1430	"	"	1	South @ 15'	2	X	X	X			X								
1435	"	"	1	SE @ 15'	3	X	X	X			X								

Additional Instructions: <u>BILL BPX</u>						PROJECT P.O. to be issued.						<u>V-5 ice in cooler</u>					
CONTACT: <u>STEVE MOSKAL</u>																	
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Jeff Blagg</u>												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.					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Lab Use Only					
<u>Jeff Blagg</u>		<u>6/27/2019</u>		<u>16:02</u>		<u>Jeff Blagg</u>		<u>6/27/19</u>		<u>16:02</u>		Received on ice: <u>Y / N</u>					
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		T1 _____ T2 _____ T3 _____					
												AVG Temp °C <u>4</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					

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Client: BPX
 Project: FLORANCE L 19
 Project Manager: Steve Moskal
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: _____

Chain of Custody

Report Attention
 Report due by: 7/2/19
 Attention: Steve Moskal / Jeff Blay
 Address: _____
 City, State, Zip _____
 Phone: _____
 Email: _____

Page 1 of 1

Lab Use Only

TAT

EPA Program

Lab WO# P907002 Job Number 03143-0424
 1D ☒ 3D ☐ RCRA ☐ CWA ☐ SDWA ☐

Analysis and Method

State

DRO/ORO by 8015 ☐ GRO/DRO by 8015 ☐ BTEX by 8021 ☐ VOC by 8260 ☐ Metals 6010 ☐ Chloride 300.0 ☐ TPH 418.1 ☐
 NM ☒ CO ☐ UT ☐ AZ ☐

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1						Remarks
1523	7/1/19	SOIL	1	West Wall @ 18'	1	X	X	X										
1527	7/1/19	SOIL	1	West Wall 3-pt (9'-13'-18')	2	X	X	X			X							

Additional Instructions:

Bill BPX

Contact: Steve Moskal

PROJECT P.O.

V-S ice in cooler

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jeff Blay

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<u>Jeff Blay</u>	<u>7/1/19</u>	<u>16:39</u>	<u>Joseph A. Blay</u>	<u>7/1/19</u>	<u>16:39</u>	Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 _____ T2 _____ T3 _____
						AVG Temp °C <u>4</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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401

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

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879

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

SITE

REMEDIATION

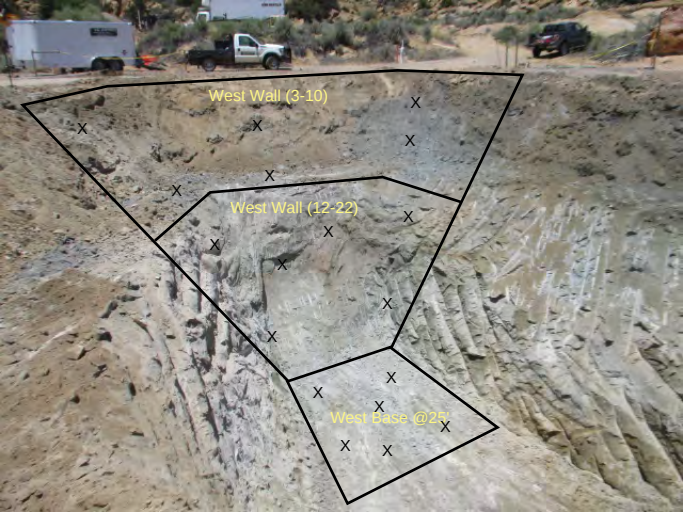
Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

July 10, 2019

Grab Sample Collected
7/10/2019 @ 16' Depth
OVM = 4,989 ppm
TPH = 3,240 PPM
BTEX = 133.5 PPM

Legend

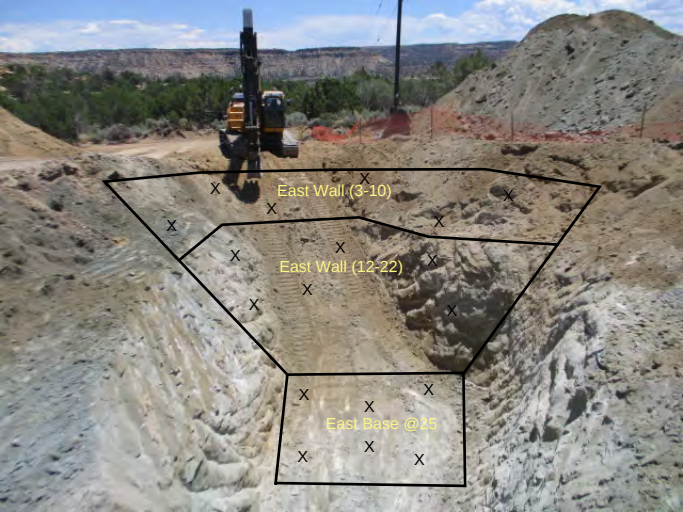




West Wall (3-10)

West Wall (12-22)

West Base @25'



X

East Wall (3-10)

X

X

X

X

X

X

X

East Wall (12-22)

X

X

X

X

X

X

X

East Base @25

X

X

X

South Wall (3-10)

X

X

X

X

X

X

South Wall (12-22)

X

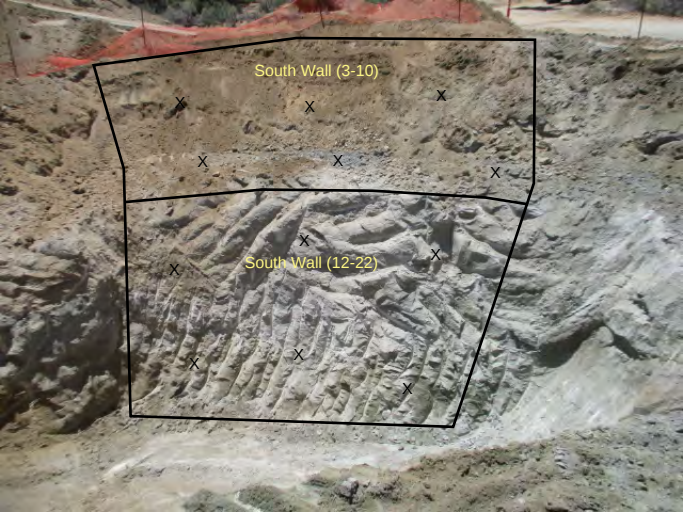
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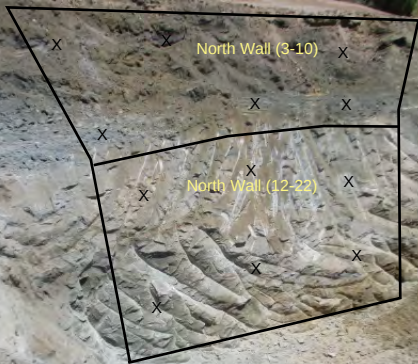
X

X

X

X





North Wall (3-10)

North Wall (12-22)

Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

July 17, 2019

Grab Sample Collected
7/10/2019 @ 16' Depth
OVM = 4,989 ppm
TPH = 3,240 PPM
BTEX = 133.5 PPM

Legend

Excavation at 10' Depth

Excavation at 20' Depth

Excavation Top Perimeter
(at original grade)

Beginning Vertical Sidewalls
(average grade -10')

Excavation Base Perimeter
(at -25' depth)

This area of Remedial
Excavation Closed out and
Being Backfilled

Extended
West Wall

NW
Base

North
Wall

West
Base

East
Base

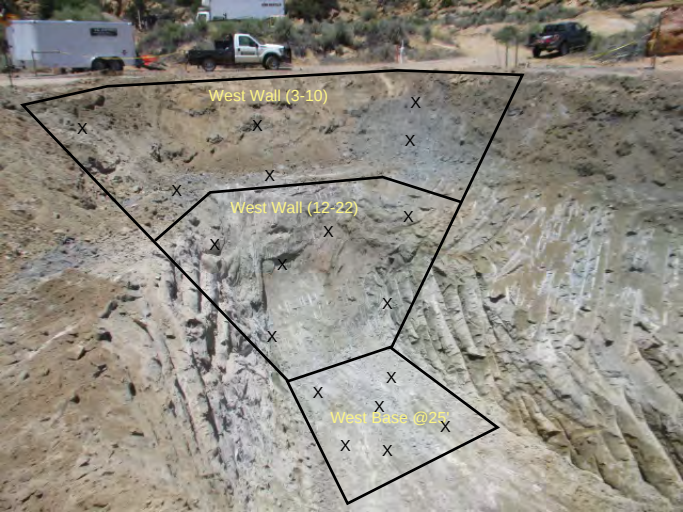
East
Wall

ACCESS
RAMP

South
Wall

West
Wall
Base

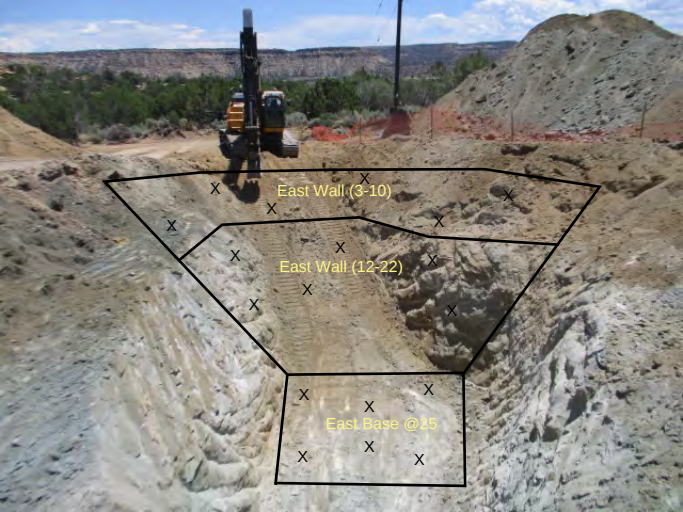
West
Wall



West Wall (3-10)

West Wall (12-22)

West Base @25'



East Wall (3-10)

East Wall (12-22)

East Base @25

South Wall (3-10)

X

X

X

X

X

X

South Wall (12-22)

X

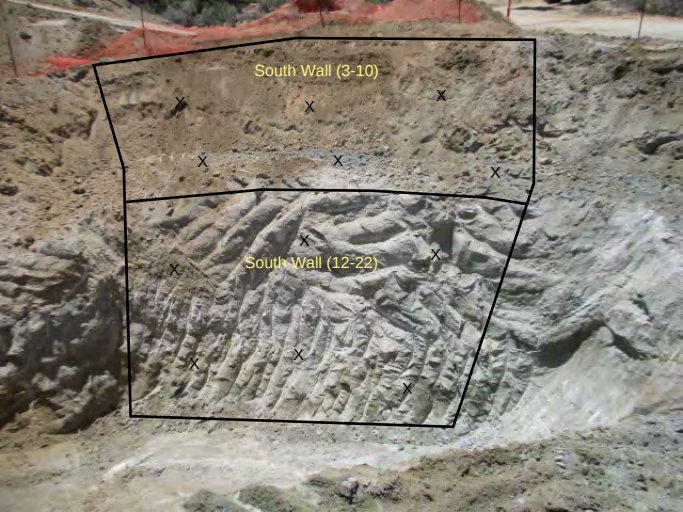
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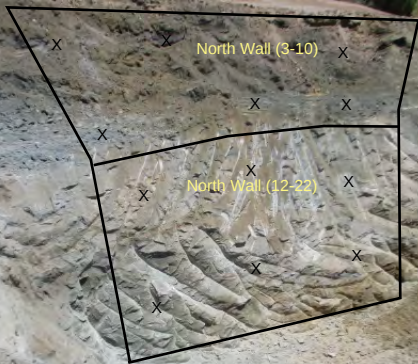
X

X

X

X





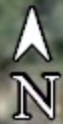
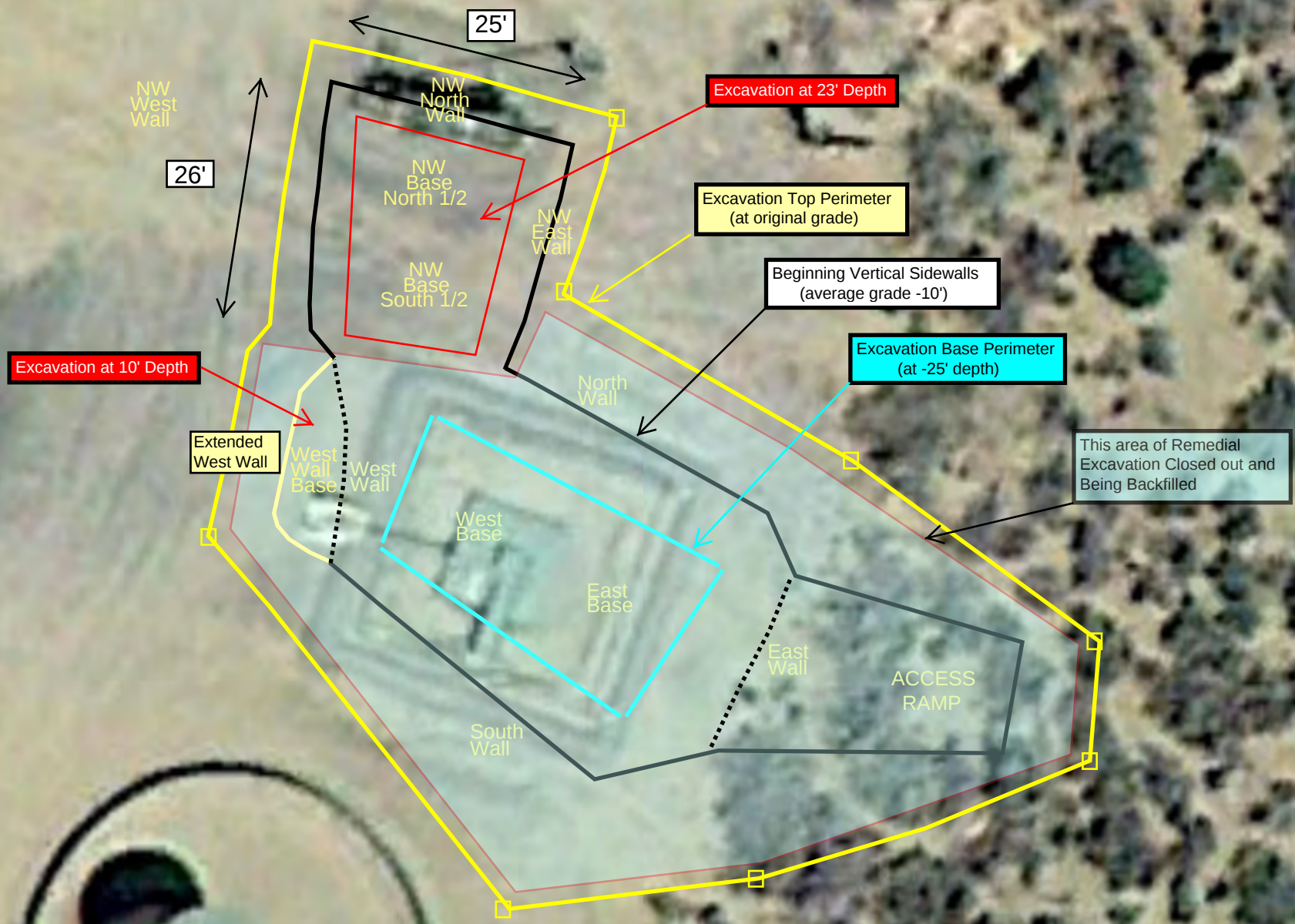
North Wall (3-10)

North Wall (12-22)

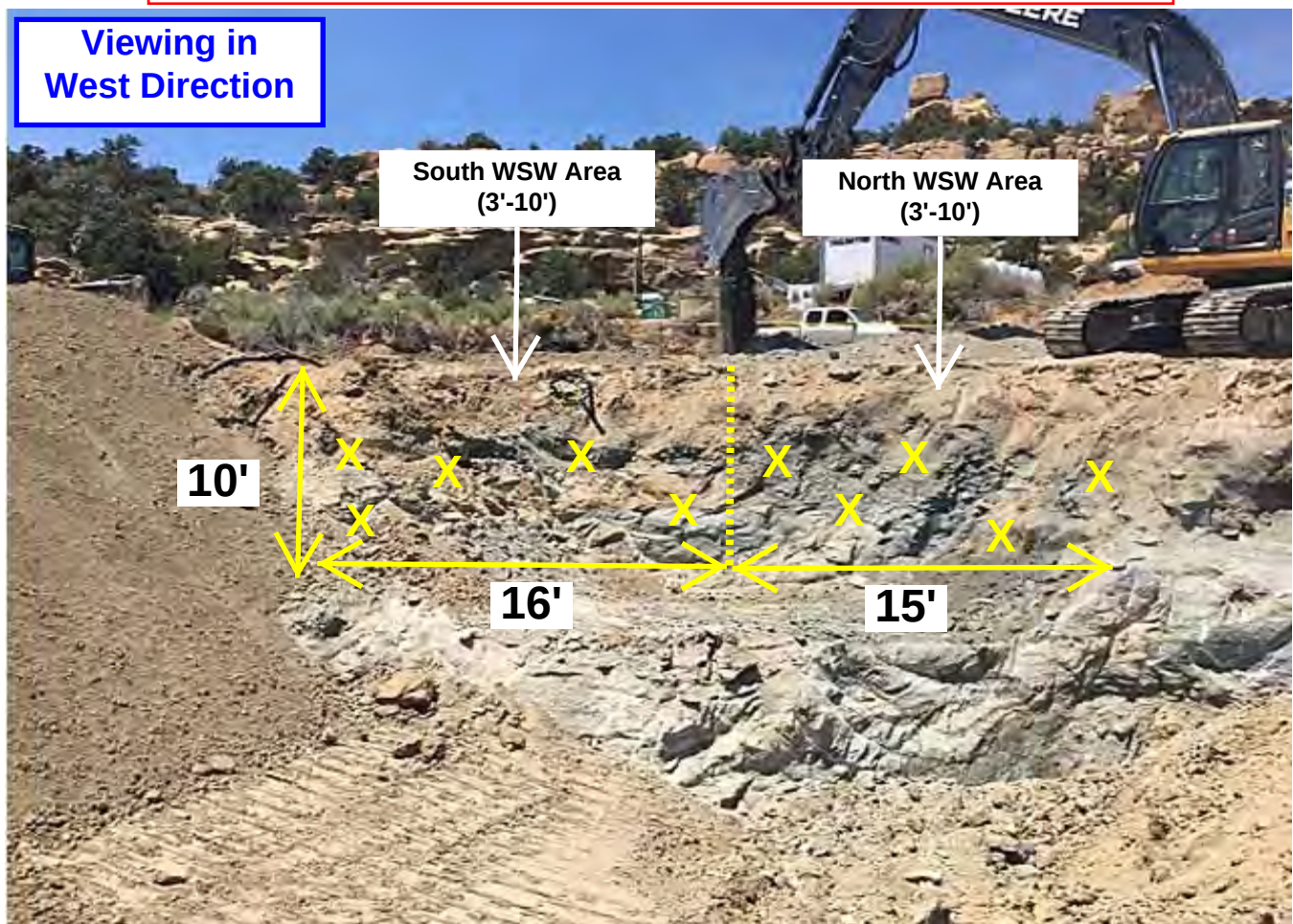
Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

July 19, 2019

Legend

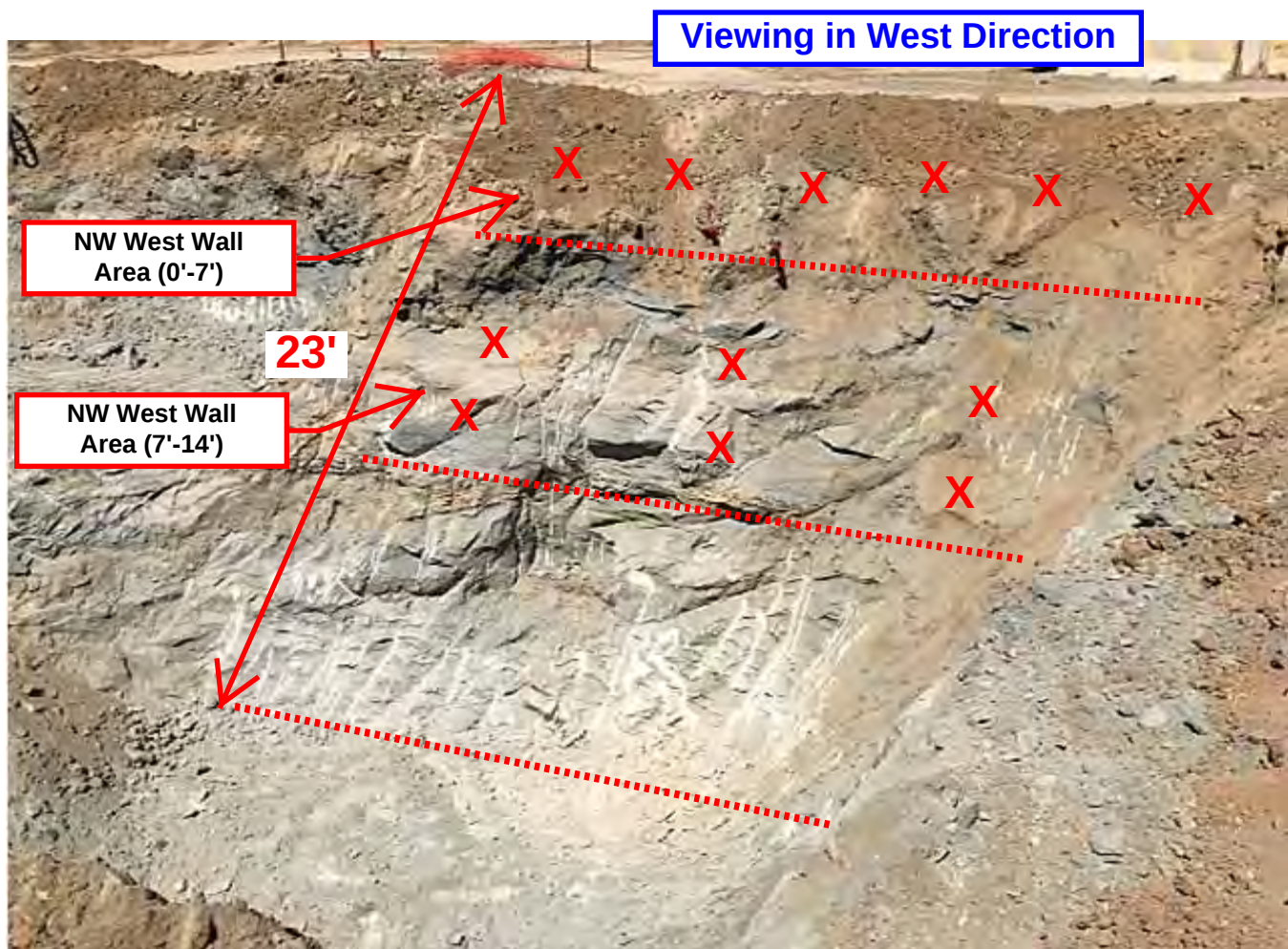


Viewing in
West Direction



Viewing in
SW Direction

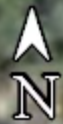
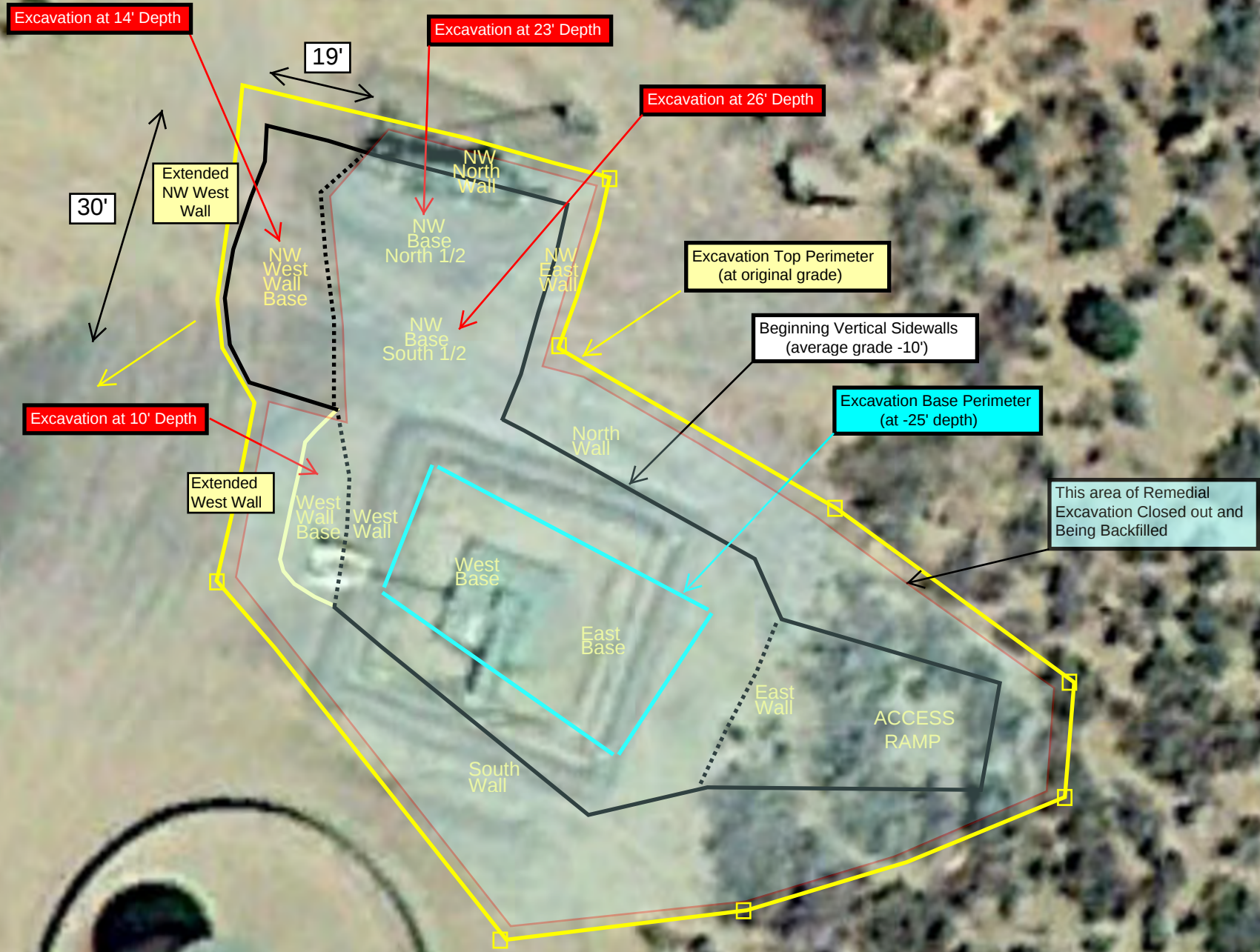




Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

July 24, 2019

Legend

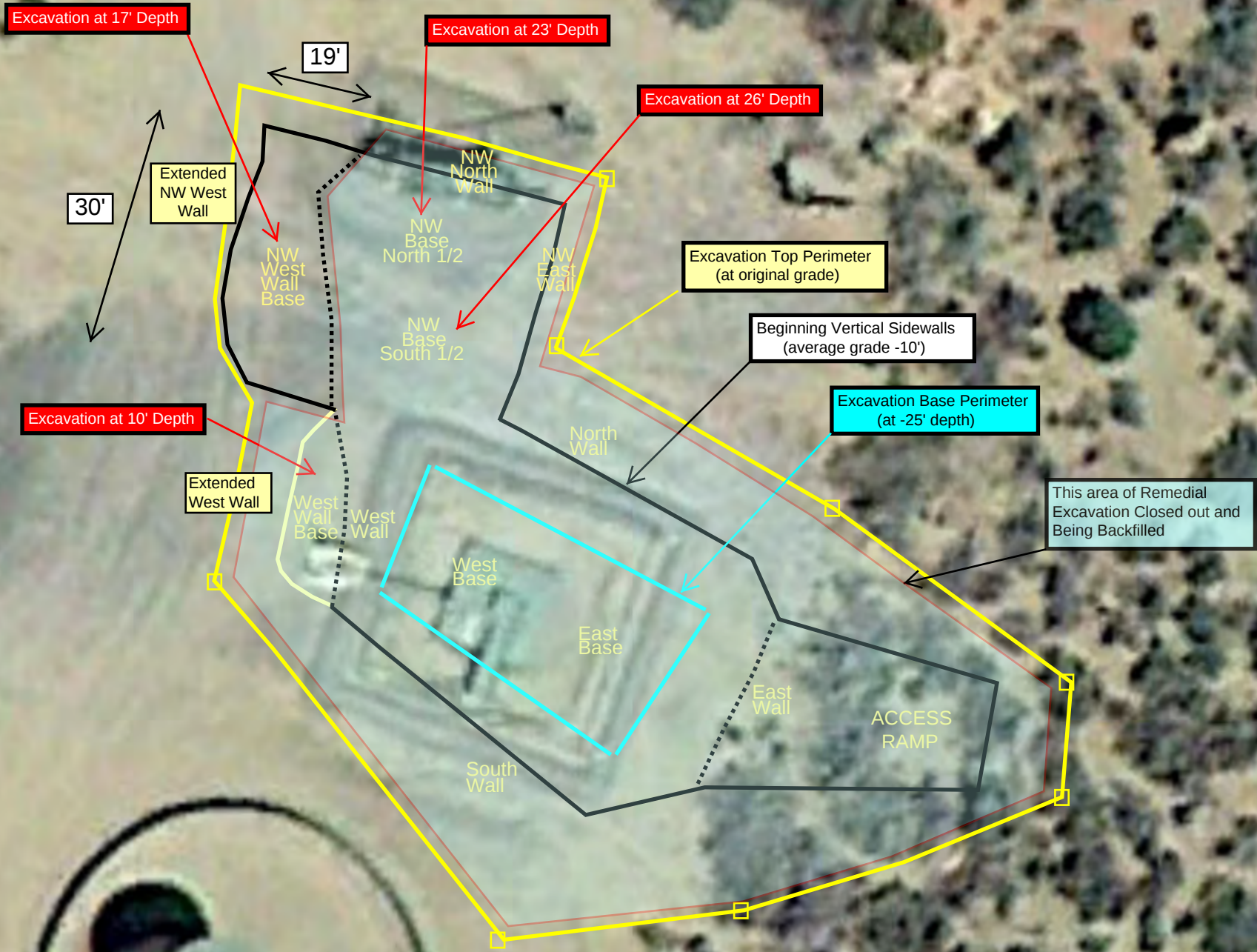




Florance L 19
(H) Sec 3 -T30N - R9W
API: 30-045-09916

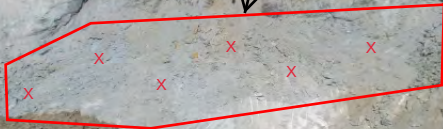
July 26, 2019

Legend



BPX - Florance L 19 - Closure Sampling - 7/26/2019

NW West Wall Base @ 17'



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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

West Base @ 25'
P907005-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		98.9 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		115 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		98.9 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

East Base @ 25'
P907005-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		96.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	55.4	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	74.3	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		119 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		96.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**East Wall (3'-10')
 P907005-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		118 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		98.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	140	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**East Wall (12'-22')
 P907005-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		99.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	38.5	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	56.6	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		117 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		99.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**South Wall (3'-10')
 P907005-10 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		98.1 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		95.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	79.2	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		112 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		98.1 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		95.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**South Wall (12'-22')
 P907005-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		99.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.9 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		115 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		103 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		99.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.9 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.	Project Name:	Florance L 19	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/05/19 17:29

**North Wall (3'-10')
P907005-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		97.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	26.0	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		97.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**North Wall (12'-22')
 P907005-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		99.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		94.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	170	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	168	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		114 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.8 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		99.5 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		94.7 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/05/19 17:29

**West Wall (3'-10')
P907005-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.0930	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	5.21	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	3.89	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	52.3	0.500	mg/kg	10	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	14.7	0.250	mg/kg	10	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	66.9	0.250	mg/kg	10	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Toluene-d8		110 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
Surrogate: Bromofluorobenzene		85.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	3310	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	90.9	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Surrogate: n-Nonane		295 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	632	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		99.6 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Toluene-d8		110 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
Surrogate: Bromofluorobenzene		85.2 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

**West Wall (12'-22')
 P907005-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
p,m-Xylene	ND	0.0500	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
Total Xylenes	ND	0.0250	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1927011	07/02/19	07/03/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		116 %		50-200	1927011	07/02/19	07/03/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		95.0 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.4 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %		70-130	1927012	07/02/19	07/05/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1927006	07/02/19	07/02/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:24

Separator Grab @ -16'
P907027-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.545	0.250	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	19.8	0.250	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	7.17	0.250	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	85.0	0.500	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	20.6	0.250	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	106	0.250	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Toluene-d8		103 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Bromofluorobenzene		79.4 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1800	50.0	mg/kg	2	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	100	mg/kg	2	1928027	07/10/19	07/11/19	EPA 8015D	
Surrogate: n-Nonane		454 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	1440	200	mg/kg	10	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Toluene-d8		103 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Bromofluorobenzene		79.4 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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Benzene	0.545	mg/Kg
Total BTEX	133.515	mg/Kg
TPH (GRO+MRO)	3,240	mg/Kg
TPH (TOTAL)	3,240	mg/Kg
Chloride	ND	mg/Kg

Refer to Aerial Map - July 10, 2019
(media eventually excavated)

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/19/19 15:36

**South WSW 5-pt. (3'-10')
P907053-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0942	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	0.906	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	0.342	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	3.34	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	0.501	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	3.84	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150		1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	658	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	77.5	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Surrogate: n-Nonane		135 %	50-200		1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	78.0	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		108 %	50-150		1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

**North WSW 5-pt. (3'-10')
 P907053-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.518	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	7.68	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	1.74	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	16.4	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	4.11	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	20.5	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %		50-150	1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	423	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	96.9	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		155 %		50-200	1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	284	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		115 %		50-150	1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

WSW Base 6-pt. @10'
P907053-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0360	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	0.625	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	0.450	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	4.56	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	0.800	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	5.36	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.3 %		50-150	1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	658	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	68.0	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		115 %		50-200	1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	93.7	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		108 %		50-150	1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

NW Base 5-pt. @20'
P907053-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.196	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	5.96	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	3.20	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	26.8	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	8.94	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	35.8	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.5 %		50-150	1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	825	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	52.9	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		136 %		50-200	1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	444	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		125 %		50-150	1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

NW Base North 1/2 @ 23'
P907071-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0267	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	2.25	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	1.88	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	18.4	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	4.48	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	22.9	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	514	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		173 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	295	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

NW Base South 1/2 @ 23'
P907071-11 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.202	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	7.45	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	4.51	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	51.0	0.500	mg/kg	10	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	10.8	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	44.4	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	1130	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		265 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	679	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		131 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	28.3	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:30

**NW Base South 1/2 @ 26'
P907089-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	1.68	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	1.12	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	14.3	0.500	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	3.78	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	18.1	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Toluene-d8		96.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Bromofluorobenzene		92.1 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	501	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	112	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Surrogate: n-Nonane		120 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	343	200	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.2 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Toluene-d8		96.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Bromofluorobenzene		92.1 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	33.3	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW East Wall (0'-7')
 P907071-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.5 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW East Wall (7'-14')
 P907071-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.1 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.1 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW East Wall (14'-22')
 P907071-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		94.4 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.0 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW North Wall (0'-7')
 P907071-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.8 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	25.4	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW North Wall (7'-14')
 P907071-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	0.167	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	0.395	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	4.37	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	0.884	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	5.25	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.9 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	260	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		114 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	105	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		113 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/23/19 16:28

**NW North Wall (14'-22')
P907071-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	0.494	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	0.709	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	7.89	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	1.94	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	9.83	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	284	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		131 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	169	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/23/19 16:28

**NW West Wall (0'-7')
P907071-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0583	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	3.08	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	2.31	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	21.2	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	5.53	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	26.7	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.7 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	859	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		208 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	369	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		120 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:30

**NW West Wall (II) (0'-7')
 P907089-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.311	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	2.43	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	0.495	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	5.68	0.0500	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	1.10	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	6.78	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Bromofluorobenzene		88.6 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	136	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	149	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Surrogate: n-Nonane		79.6 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	101	20.0	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		96.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Bromofluorobenzene		88.6 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW West Wall (7'-14')
 P907071-08 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.126	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	4.33	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	2.63	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	23.8	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	6.47	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	30.2	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	827	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		210 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	Surr2

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	413	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		119 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:30

**NW West Wall (II) (7'-14')
 P907089-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	0.212	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	0.300	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	4.19	0.0500	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	0.744	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	4.93	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Toluene-d8		102 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Bromofluorobenzene		78.5 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	505	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	241	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Surrogate: n-Nonane		87.6 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	110	20.0	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.0 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Toluene-d8		102 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Bromofluorobenzene		78.5 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:30

NW West Wall Base @ 14'
P907089-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	3.53	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	1.66	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	21.6	0.500	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	5.27	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	26.9	0.250	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Toluene-d8		97.4 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Bromofluorobenzene		89.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	671	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	164	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Surrogate: n-Nonane		133 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	446	200	mg/kg	10	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		101 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Toluene-d8		97.4 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Bromofluorobenzene		89.9 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

NW West Wall Base @ 17'
P907106-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
p,m-Xylene	0.0745	0.0500	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
o-Xylene	ND	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Total Xylenes	0.0745	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		93.6 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	40.6	25.0	mg/kg	1	1931002	07/29/19	07/30/19	EPA 8015D	
Oil Range Organics (C28-C40)	51.3	50.0	mg/kg	1	1931002	07/29/19	07/30/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		74.0 %		50-200	1931002	07/29/19	07/30/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		98.5 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		93.6 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		95.3 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1931006	07/29/19	07/29/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

**NW West Wall (14'-22')
 P907071-09 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.131	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Toluene	0.341	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Ethylbenzene	0.111	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
p,m-Xylene	1.45	0.0500	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
o-Xylene	0.303	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
Total Xylenes	1.75	0.0250	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.4 %		50-150	1930001	07/22/19	07/22/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	28.2	25.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1930002	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		103 %		50-200	1930002	07/22/19	07/22/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1930001	07/22/19	07/22/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1930001	07/22/19	07/22/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930003	07/22/19	07/22/19	EPA 300.0/9056A	
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Client: <u>BPX ENERGY</u>					Report Attention					Lab Use Only				TAT		EPA Program							
Project: <u>FLORANCE L 19</u>					Report due by: <u>7/3/2019</u>					Lab WO# <u>P 907005</u>		Job Number <u>03143-0424</u>		1D	3D	RCRA	CWA	SDWA					
Project Manager: <u>STEVE MOSKAL</u>					Attention: <u>Steve Moskal / JEFF BLAGG</u>									☒									
Address:					Address:					Analysis and Method								State					
City, State, Zip					City, State, Zip					DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0					NM	CO	UT	AZ
Phone:					Phone:														☒				
Email:					Email:																		
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number																	Remarks	
1332	7/2/2019	SOIL	1	WEST BASE @ 25'	1																		
1339			1	EAST BASE @ 25'	2																		
1344			1	EAST WALL (12'-22')	3																		
1352			1	WEST WALL (12'-22')	4																		
1401			1	SOUTH WALL (12'-22')	5																		
1405			1	NORTH WALL (12'-22')	6																		
1413			1	EAST WALL (3'-10')	7																		
1417			1	NORTH WALL (3'-10')	8																		
1422			1	WEST WALL (3'-10')	9																		
1427			1	SOUTH WALL (3'-10')	10																		
Additional Instructions: <u>Bill BPX - USE PROJECT P.O.</u>																							
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>JH Blagg</u>												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.											
Relinquished by: (Signature) <u>JH Blagg</u>			Date <u>7/2/2019</u>		Time <u>1614</u>		Received by: (Signature) <u>Ravin Lopez</u>			Date <u>7/2/19</u>		Time <u>4:14pm</u>		Lab Use Only									
Relinquished by: (Signature)			Date		Time		Received by: (Signature)			Date		Time		Received on ice: <u>0/ N</u>									
														T1 _____ T2 _____ T3 _____									
														AVG Temp °C <u>4</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											
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																							

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information Client: BPX Energy Inc. Project: Florance L #19 Project Manager: Steve Moskal - BPX Engery Inc. Address: 1199 Main Ave., Suite 101 City, State, Zip Durango, CO 81301 Phone: (505) 330-9179 - S. Moskal Email: See "additional instructions" below		Chain of Custody Report Attention Report due by: 7/17/2019 Attention: Steve Moskal Address: City, State, Zip Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179 Email: See "additional instructions" below		Lab Use Only Lab WO# P907053 Job Number 0343-8424 Analysis and Method DRO/DRO/DRO by 8015 GRO/DRO by 8015 BTEX by 8021 VOC by 8260 Metals 6010 Chloride 300.0 TPH 418.1		TAT 1D 3D X EPA Program RCRA CWA SDWA State NM CO UT AZ X	
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Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
1336	7/17/19	SOIL	1-4 oz.	South WSW 5-pt. (3' - 10')	1	X	X	X			X		
1346	7/17/19	SOIL	1-4 oz.	North WSW 5-pt. (3' - 10')	2	X	X	X			X		
1341	7/17/19	SOIL	1-4 oz.	WSW Base 6-pt. @ 10'	3	X	X	X			X		
1352	7/17/19	SOIL	1-4 oz.	NW Base 5-pt. @ 20'	4	X	X	X			X		

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, StevenMoskal@bpx.com, & Don.Buller@bpx.com.
 PO: 430109126 RL

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Nelson Velez						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.					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only			
		7/17/19	16:13			7/17/19	16:13	Received on ice: Y / N			
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3 AVG Temp °C 4			

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Client: BPX Energy Inc.
 Project: Florance L #19
 Project Manager: Steve Moskal - BPX Engery Inc.
 Address: 1199 Main Ave., Suite 101
 City, State, Zip Durango, CO 81301
 Phone: (505) 330-9179 - S. Moskal
 Email: See "additional instructions" below

Chain of Custody

Report Attention
 Report due by: 7/22/2019
 Attention: Steve Moskal
 Address:
 City, State, Zip
 Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179
 Email: See "additional instructions" below

Page 1 of 2

Lab Use Only

TAT

EPA Program

Lab WO# P907071 Job Number 06143-0429
 1D 3D X

RCRA CWA SDWA

Analysis and Method

State

NM CO UT AZ

X

Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1							
1435	7/19/19	SOIL	1-4 oz.	NW East Wall (0' - 7')	1	X	X	X			X								
1325	7/19/19	SOIL	1-4 oz.	NW East Wall (7' - 14')	2	X	X	X			X								
1320	7/19/19	SOIL	1-4 oz.	NW East Wall (14' - 22')	3	X	X	X			X								
1432	7/19/19	SOIL	1-4 oz.	NW North Wall (0' - 7')	4	X	X	X			X								
1335	7/19/19	SOIL	1-4 oz.	NW North Wall (7' - 14')	5	X	X	X			X								
1331	7/19/19	SOIL	1-4 oz.	NW North Wall (14' - 22')	6	X	X	X			X								
1441	7/19/19	SOIL	1-4 oz.	NW West Wall (0' - 7')	7	X	X	X			X								
1346	7/19/19	SOIL	1-4 oz.	NW West Wall (7' - 14')	8	X	X	X			X								
1341	7/19/19	SOIL	1-4 oz.	NW West Wall (14' - 22')	9	X	X	X			X								

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, StevenMoskal@bpx.com, & Don.Buller@bpx.com.
 PO: 4301091126

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Nelson Velez

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	7/19/19	1645	<i>Ravin Lopez</i>	7/19/19	16:45	Received on ice: ☒ N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C 4

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Client: BPX Energy Inc.
 Project: Florance L #19
 Project Manager: Steve Moskal - BPX Engery Inc.
 Address: 1199 Main Ave., Suite 101
 City, State, Zip Durango, CO 81301
 Phone: (505) 330-9179 - S. Moskal
 Email: See "additional instructions" below

Chain of Custody

Report Attention
 Report due by: 7/22/2019
 Attention: Steve Moskal
 Address:
 City, State, Zip
 Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179
 Email: See "additional instructions" below

Page 2 of 2

Project Information					Chain of Custody		Lab Use Only		TAT		EPA Program							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	1D	3D	RCRA	CWA	SDWA	
1311	7/19/19	SOIL	1-4 oz.	NW Base North 1/2 @ 23'	10	X	X	X			X		X					
1315	7/19/19	SOIL	1-4 oz.	NW Base South 1/2 @ 23'	11	X	X	X			X							

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, StevenMoskal@bpx.com, & Don.Buller@bpx.com.
 PO: 4301091126

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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.

Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only	
<i>[Signature]</i>		7/19/19	1645	<i>Rain Lopez</i>		7/19/19	1645	Received on Ice: (Y) / N	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3	
								AVG Temp °C	

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Chain of Custody

Page 1 of 1

Client: BPX Energy Inc.
 Project: Florance L #19
 Project Manager: Steve Moskal - BPX Energy Inc.
 Address: 1199 Main Ave., Suite 101
 City, State, Zip Durango, CO 81301
 Phone: (505) 330-9179 - S. Moskal
 Email: See "additional instructions" below

Report Attention

Report due by: 7/25/2019
 Attention: Steve Moskal
 Address:
 City, State, Zip
 Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179
 Email: See "additional instructions" below

Lab Use Only

TAT

EPA Program

Lab WO# P967089 Job Number 03413-0424
 1D 3D RCRA CWA SDWA
 X

Analysis and Method

State

NM CO UT AZ

X

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO/RO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
1400	7/24/19	SOIL	1-4 oz.	NW West Wall (II) (0' - 7')	1	X	X	X			X		
1348	7/24/19	SOIL	1-4 oz.	NW West Wall (II) (7' - 14')	2	X	X	X			X		
1354	7/24/19	SOIL	1-4 oz.	NW West Wall Base @ 14'	3	X	X	X			X		
1336	7/24/19	SOIL	1-4 oz.	NW Base South 1/2 @ 26'	4	X	X	X			X		

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, StevenMoskal@bpx.com, & Don.Buller@bpx.com.
 PO: 4301091126

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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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	7/24/19	1612	<i>[Signature]</i>	7/24/19	16:12	Received on ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C 4

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

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TREATED SOIL

REMEDIATION

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-1
P907028-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.0365	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.322	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.105	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.427	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		85.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	121	25.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		112 %		50-200	1928027	07/10/19	07/10/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		102 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		85.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-2
P907028-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.348	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.112	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.460	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		83.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	109	25.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1928027	07/10/19	07/10/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	61.7	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		101 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		83.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-3
P907028-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.237	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.0680	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.305	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Toluene-d8		98.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Bromofluorobenzene		87.5 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	98.9	25.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1928027	07/10/19	07/10/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	34.1	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Toluene-d8		98.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Bromofluorobenzene		87.5 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-4
P907028-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.0295	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.360	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.107	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.467	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.8 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		87.9 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	105	25.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		110 %		50-200	1928027	07/10/19	07/10/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	33.2	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.8 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		87.9 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/12/19 14:25

TSP-5
P907028-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.149	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.0455	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.195	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		93.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	70.5	25.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/10/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		108 %		50-200	1928027	07/10/19	07/10/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	24.2	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.2 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		98.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		93.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-6
P907028-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	0.262	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.0805	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	0.342	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		98.4 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Toluene-d8		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Bromofluorobenzene		93.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	165	25.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	73.2	50.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Surrogate: n-Nonane		110 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	38.6	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		98.4 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Toluene-d8		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Bromofluorobenzene		93.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/12/19 14:25

TSP-7
P907028-07 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.0640	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	0.0495	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	1.31	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.372	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	1.68	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		90.6 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	193	25.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	75.1	50.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		118 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	73.8	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.7 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		104 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		90.6 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-8
P907028-08 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.0250	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.306	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	0.148	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	2.62	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.678	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	3.30	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Toluene-d8		105 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Bromofluorobenzene		83.0 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	211	25.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	71.0	50.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Surrogate: n-Nonane		123 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	113	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Toluene-d8		105 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Bromofluorobenzene		83.0 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-9
P907028-09 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.0275	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.197	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	0.0720	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	1.46	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.388	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	1.85	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Toluene-d8		104 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
Surrogate: Bromofluorobenzene		89.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	141	25.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	61.9	50.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Surrogate: n-Nonane		113 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	73.4	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		102 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Toluene-d8		104 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
Surrogate: Bromofluorobenzene		89.1 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

TSP-10
P907028-10 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Toluene	0.115	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Ethylbenzene	0.0670	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
p,m-Xylene	1.25	0.0500	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
o-Xylene	0.320	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
Total Xylenes	1.57	0.0250	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		82.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	116	25.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1928027	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		109 %		50-200	1928027	07/10/19	07/11/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	74.1	20.0	mg/kg	1	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		96.9 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		101 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		82.3 %		70-130	1928028	07/10/19	07/11/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928025	07/10/19	07/11/19	EPA 300.0/9056A	
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 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/16/19 13:48

TSP-11
P907035-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	0.103	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	0.131	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	2.14	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	0.639	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	2.78	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		92.6 %		50-150	1928047	07/12/19	07/15/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	239	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	122	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	1928040	07/12/19	07/15/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	69.1	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %		50-150	1928047	07/12/19	07/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/16/19 13:48

TSP-12
P907035-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	0.0334	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Toluene	0.318	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Ethylbenzene	0.177	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
p,m-Xylene	3.04	0.0500	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
o-Xylene	0.740	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
Total Xylenes	3.77	0.0250	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		95.6 %		50-150	1928047	07/12/19	07/15/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	269	25.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
Oil Range Organics (C28-C40)	191	50.0	mg/kg	1	1928040	07/12/19	07/15/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		111 %		50-200	1928040	07/12/19	07/15/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	65.7	20.0	mg/kg	1	1928047	07/12/19	07/15/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		112 %		50-150	1928047	07/12/19	07/15/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1928046	07/12/19	07/12/19	EPA 300.0/9056A	
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 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:35

TSP-13
P907054-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	0.0378	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	0.638	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	0.132	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	0.770	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.6 %		50-150	1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	339	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	332	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %		50-150	1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:35

TSP-14
P907054-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
p,m-Xylene	0.331	0.0500	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
o-Xylene	0.0631	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
Total Xylenes	0.394	0.0250	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.9 %		50-150	1929019	07/17/19	07/18/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	255	25.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	305	50.0	mg/kg	1	1929026	07/18/19	07/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		104 %		50-200	1929026	07/18/19	07/18/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1929019	07/17/19	07/18/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %		50-150	1929019	07/17/19	07/18/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1929027	07/18/19	07/18/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:29

TSP-15
P907088-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	0.0920	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	0.0345	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	0.456	0.0500	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	0.225	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	0.681	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		97.3 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Toluene-d8		95.3 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
Surrogate: Bromofluorobenzene		84.1 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	270	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	196	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Surrogate: n-Nonane		85.6 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	48.6	20.0	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		97.3 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Toluene-d8		95.3 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
Surrogate: Bromofluorobenzene		84.1 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:29

TSP-16
P907088-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Toluene	0.115	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Ethylbenzene	0.0335	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
p,m-Xylene	0.759	0.0500	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
o-Xylene	0.252	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
Total Xylenes	1.01	0.0250	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		95.8 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	
<i>Surrogate: Bromofluorobenzene</i>		86.2 %		70-130	1930020	07/24/19	07/25/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	329	25.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
Oil Range Organics (C28-C40)	356	50.0	mg/kg	1	1930029	07/24/19	07/25/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		82.8 %		50-200	1930029	07/24/19	07/25/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	45.1	20.0	mg/kg	1	1930020	07/24/19	07/25/19	EPA 8015D	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		97.6 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
<i>Surrogate: Toluene-d8</i>		95.8 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	
<i>Surrogate: Bromofluorobenzene</i>		86.2 %		70-130	1930020	07/24/19	07/25/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1930030	07/25/19	07/25/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

TSP-17
P907105-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	0.0280	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Toluene	0.188	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Ethylbenzene	0.0930	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
p,m-Xylene	1.36	0.0500	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
o-Xylene	0.309	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Total Xylenes	1.67	0.0250	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	
Surrogate: Toluene-d8		97.9 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	
Surrogate: Bromofluorobenzene		81.9 %		70-130	1930042	07/26/19	07/29/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	259	25.0	mg/kg	1	1931002	07/29/19	07/29/19	EPA 8015D	
Oil Range Organics (C28-C40)	133	50.0	mg/kg	1	1931002	07/29/19	07/29/19	EPA 8015D	
Surrogate: n-Nonane		94.8 %		50-200	1931002	07/29/19	07/29/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	68.8	20.0	mg/kg	1	1930042	07/26/19	07/29/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	
Surrogate: Toluene-d8		97.9 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	
Surrogate: Bromofluorobenzene		81.9 %		70-130	1930042	07/26/19	07/29/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1931006	07/29/19	07/29/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 08/01/19 17:00

TSP-18
P907122-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organic Compounds by 8260

Benzene	ND	0.0250	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
Toluene	0.0505	0.0250	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
Ethylbenzene	0.0380	0.0250	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
p,m-Xylene	0.847	0.0500	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
o-Xylene	0.286	0.0250	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
Total Xylenes	1.13	0.0250	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1931023	07/30/19	07/31/19	EPA 8260B	
Surrogate: Toluene-d8		96.2 %		70-130	1931023	07/30/19	07/31/19	EPA 8260B	
Surrogate: Bromofluorobenzene		82.6 %		70-130	1931023	07/30/19	07/31/19	EPA 8260B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	292	25.0	mg/kg	1	1931022	07/30/19	07/31/19	EPA 8015D	
Oil Range Organics (C28-C40)	101	50.0	mg/kg	1	1931022	07/30/19	07/31/19	EPA 8015D	
Surrogate: n-Nonane		87.7 %		50-200	1931022	07/30/19	07/31/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	69.5	20.0	mg/kg	1	1931023	07/30/19	07/31/19	EPA 8015D	
Surrogate: 1,2-Dichloroethane-d4		100 %		70-130	1931023	07/30/19	07/31/19	EPA 8015D	
Surrogate: Toluene-d8		96.2 %		70-130	1931023	07/30/19	07/31/19	EPA 8015D	
Surrogate: Bromofluorobenzene		82.6 %		70-130	1931023	07/30/19	07/31/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1931025	07/30/19	07/31/19	EPA 300.0/9056A	
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Client: <u>BPX</u> Project: <u>FLORANCE L 19</u> Project Manager: <u>STEVE MOSKAL</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Report Attention Report due by: <u>7/11/2019</u> Attention: <u>STEVE MOSKAL / JEFF BLAGG</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____					Lab Use Only Lab WO# <u>P 907028</u> Job Number <u>03143-0424</u> Analysis and Method: _____ DRO/DRO by 8015: <u>X</u> GRO/DRO by 8015: <u>X</u> BTEX by 8021: <u>X</u> VOC by 8260: _____ Metals 6010: _____ Chloride 300.0: <u>X</u>					TAT 1D <u>X</u> 3D _____		EPA Program RCRA _____ CWA _____ SDWA _____		
												State: _____ NM <u>X</u> CO _____ UT _____ AZ _____							
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0								Remarks
1347	7/10/2019	SOIL	1	TSP-1	1	X	X	X			X								
1351			1	TSP-2	2														
1354			1	TSP-3	3														
1357			1	TSP-4	4														
1400			1	TSP-5	5														
1402			1	TSP-6	6														
1405			1	TSP-7	7														
1407			1	TSP-8	8														
1410			1	TSP-9	9														
1413			1	TSP-10	10														
Additional Instructions: <u>Bill BPX (PROJECT P.O.)</u>																			
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Jeff Blagg</u>												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.							
Relinquished by: (Signature) <u>Jeff Blagg</u>			Date <u>7/10/2019</u>		Time <u>15:56</u>		Received by: (Signature) <u>Rahm Lopez</u>			Date <u>7/10/19</u>		Time <u>15:56</u>		Lab Use Only Received on ice: <u>(X)</u> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>					
Relinquished by: (Signature) _____			Date _____		Time _____		Received by: (Signature) _____			Date _____		Time _____		Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - VOA					
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____																			
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.																			

Page 10 of 10

Page 1 of 1	
Project Information Client: BPX Energy Inc. Project: Florance L #19 Project Manager: Steve Moskal - BPX Engery Inc. Address: 1199 Main Ave., Suite 101 City, State, Zip Durango, CO 81301 Phone: (505) 330-9179 - S. Moskal Email: See "additional instructions" below	Chain of Custody Report Attention Report due by: 7/17/2019 Attention: Steve Moskal Address: City, State, Zip Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179 Email: See "additional instructions" below Lab Use Only Lab WO# P 907059 Job Number 03143-0124 TAT 1D X 3D EPA Program RCRA CWA SDWA Analysis and Method State NM CO UT AZ X Remarks

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1							
1422	7/17/19	SOIL	1-4 oz.	TSP - 13	1	X	X	X			X								
1426	7/17/19	SOIL	1-4 oz.	TSP - 14	2	X	X	X			X								

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg njv@yahoo.com, Steven.Moskal@bpx.com, & Don.Buller@bpx.com.
 PO: 4301091126 RL

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: **Nelson Velez**

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: Y / N T1 T2 T3 AVG Temp °C 4
<i>[Signature]</i>	7/17/19	1613	<i>[Signature]</i>	7/17/19	1613	
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Project Information

Client: BPX Energy Inc.
 Project: Florance L #19
 Project Manager: Steve Moskal - BPX Engery Inc.
 Address: 1199 Main Ave., Suite 101
 City, State, Zip Durango, CO 81301
 Phone: (505) 330-9179 - S. Moskal
 Email: See "additional instructions" below

Chain of Custody

Report Attention
 Report due by: 7/25/2019
 Attention: Steve Moskal
 Address:
 City, State, Zip
 Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179
 Email: See "additional instructions" below

Page 1 of 1

Project Information				Chain of Custody		Lab Use Only		TAT		EPA Program			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA	
1409	7/24/19	SOIL	1-4 oz.	TSP - 15	1	P907088	073443-0424	X					
1417	7/24/19	SOIL	1-4 oz.	TSP - 16	2								

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, StevenMoskal@bpx.com, & Don.Buller@bpx.com.
 PO: 4301091126

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Nelson Velez

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only
<i>[Signature]</i>	7/24/19	1612	<i>Raina Lopez</i>	7/24/19	1612	Received on Ice: Y / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3
						AVG Temp °C 4

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

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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



envirotech
Analytical Laboratory

envirotech-inc.com
labadmin@envirotech-inc.com

Page 9 of 9

VADOSE ZONE

CONFIRMATION

BPX - FLORANCE L 019

(H) Section 3, T30N, R9W
API #: 3004509916

Imagery date: 4/6/2019
WH GPS Coord.: 36.842984,-107.761938
120 BGT GPS Coord.: 36.842787,-107.761520

October 22, 2019

TSP-VZ #2
20 ft. X 63 ft.
(1,260 sq. ft.)

TSP-VZ #1
25 ft. X 84 ft.
(2,100 sq. ft.)

66 ft., S45E
from WH

1 - 3 pt. composite

213 ft., S70E
from WH

1 - 5 pt. composite

120 BGT

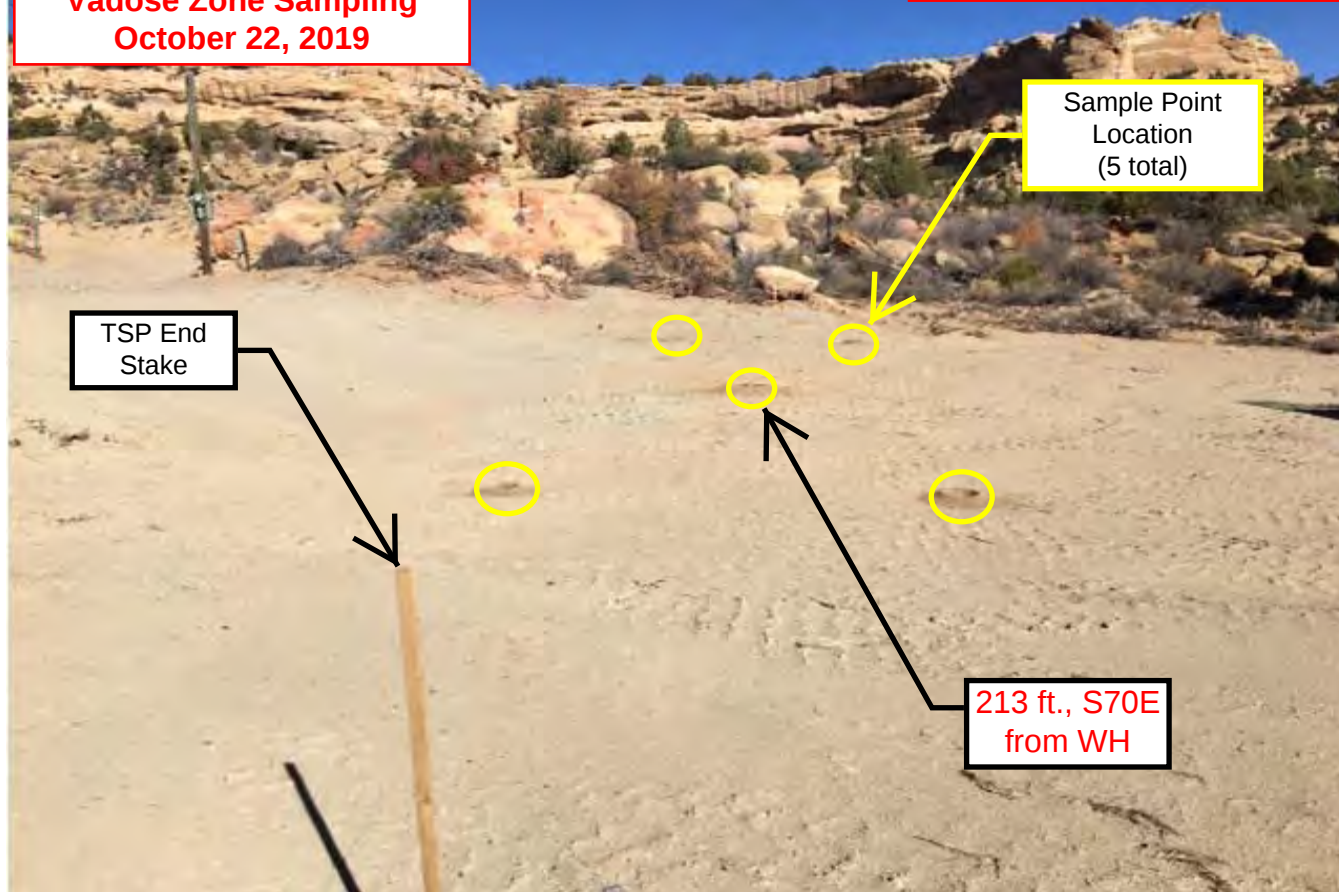


80 ft

BPX - FLORANCE L 019
Vadose Zone Sampling
October 22, 2019

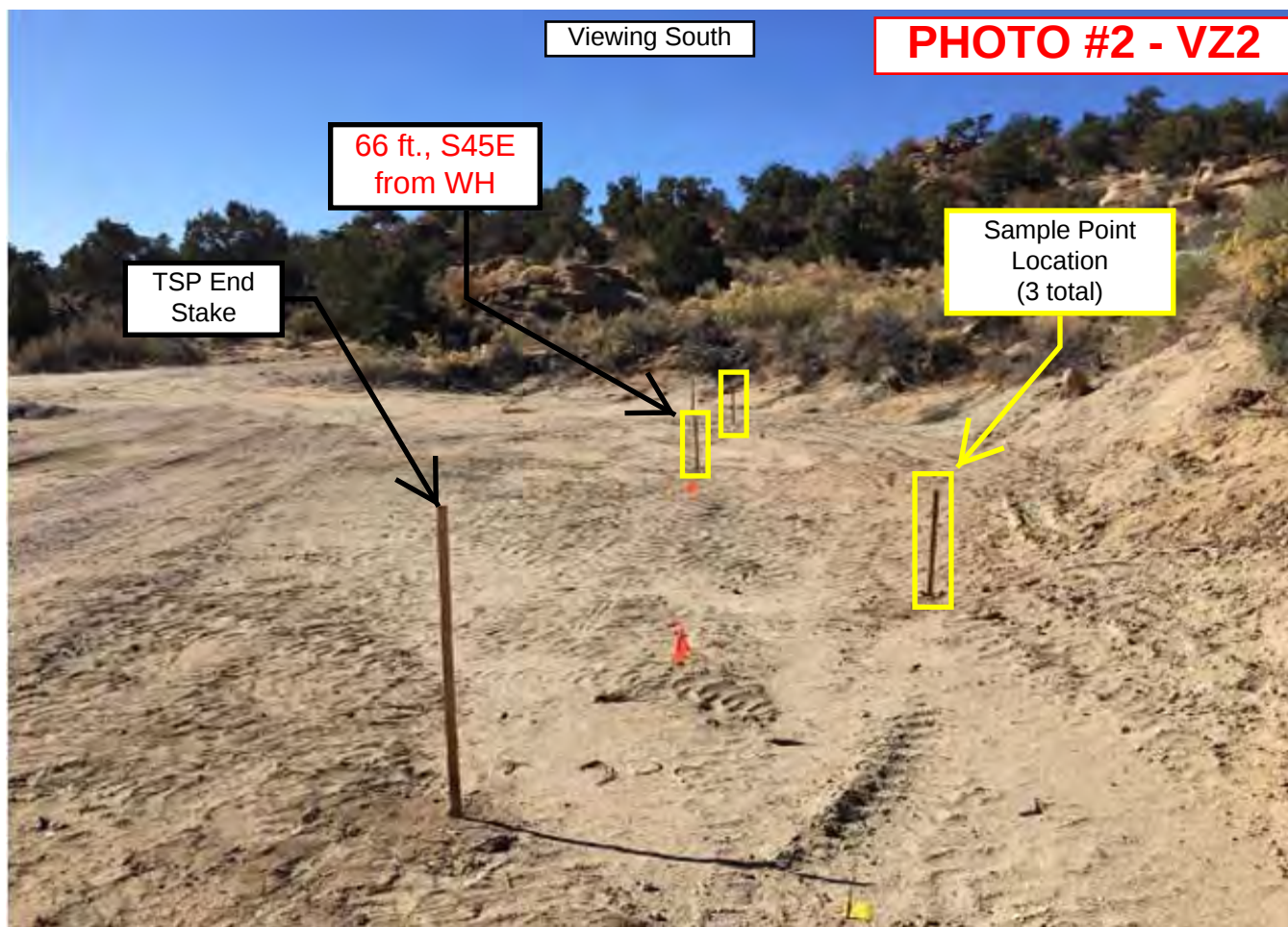
Viewing North

PHOTO #1 - VZ1



Viewing South

PHOTO #2 - VZ2



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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 10/29/19 14:32

TSP-VZ #1
P910137-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1943014	10/23/19	10/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	33.7	25.0	mg/kg	1	1943026	10/23/19	10/28/19	EPA 8015D	
Oil Range Organics (C28-C40)	70.0	50.0	mg/kg	1	1943026	10/23/19	10/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		96.4 %		50-200	1943026	10/23/19	10/28/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.8 %		50-150	1943014	10/23/19	10/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1943020	10/23/19	10/23/19	EPA 300.0/9056A	
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 10/29/19 14:32

TSP-VZ #2
P910137-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1943014	10/23/19	10/23/19	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1943026	10/23/19	10/28/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1943026	10/23/19	10/28/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		90.1 %		50-200	1943026	10/23/19	10/28/19	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1943014	10/23/19	10/23/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %		50-150	1943014	10/23/19	10/23/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1943020	10/23/19	10/23/19	EPA 300.0/9056A	
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Project Information		Chain of Custody		Page <u>1</u> of <u>10</u>	
Client: BPX Energy Inc.		Report Attention		Lab Use Only	
Project: Florance L #19		Report due by: 11/06/2019		TAT	
Project Manager: Steve Moskal - BPX Engery Inc.		Attention: Steve Moskal		EPA Program	
Address: 1199 Main Ave., Suite 101		Address:		1D 3D RCRA CWA SDW	
City, State, Zip Durango, CO 81301		City, State, Zip			
Phone: (505) 330-9179 - S. Moskal		Phone: N. Velez (505) 320-3489; S. Moskal (505) 330-9179			
Email: See "additional instructions" below		Email: See "additional instructions" below			

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/D by 801	GRO/D by 801	BTEX by 801	VOC by 801	Metals	Chloride	TPH 418							Remarks
1020	10/22/19	SOIL	1-4 oz.	TSP-VZ #1	1	X	X	X			X								5 POINT COMPOSITE
1045	10/22/19	SOIL	1-4 oz.	TSP-VZ #2	2	X	X	X			X								3 POINT COMPOSITE

Additional Instructions: Send emails to: jeffcblagg@aol.com, blagg_njv@yahoo.com, & Steven.Moskal@bpx.com. **PO: 4301091126**

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Nelson Velez						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.		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only		
<i>[Signature]</i>	10/22/19	14:11	<i>[Signature]</i>	10/22/19	14:11	Received on ice: <u>Y</u> / N		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 T2 T3		
						AVG Temp °C <u>4</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

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

LABORATORY

QUALITY CONTROL /

QUALITY ASSURANCE

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 6/26/2019

Job Number: 03143-0424

Work Order: P906115

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 6/28/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 06/28/19 15:33

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
East Trench @ 6'	P906115-01A	Soil	06/26/19	06/26/19	Glass Jar, 4 oz.
Source @ 14'	P906115-02A	Soil	06/26/19	06/26/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 06/28/19 15:33

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 1926019 - Purge and Trap EPA 5030A
Blank (1926019-BLK1)

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.79 " 8.00 97.3 50-150

LCS (1926019-BS1)

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Benzene	4.58	0.0250	mg/kg	5.00		91.5	70-130			
Toluene	4.94	0.0250	"	5.00		98.7	70-130			
Ethylbenzene	4.87	0.0250	"	5.00		97.3	70-130			
p,m-Xylene	10.0	0.0500	"	10.0		100	70-130			
o-Xylene	4.86	0.0250	"	5.00		97.2	70-130			
Total Xylenes	14.9	0.0250	"	15.0		99.1	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.77 " 8.00 97.1 50-150

Matrix Spike (1926019-MS1)

Source: P906112-01

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Benzene	4.36	0.0250	mg/kg	5.00	ND	87.2	54.3-133			
Toluene	4.74	0.0250	"	5.00	ND	94.9	61.4-130			
Ethylbenzene	4.66	0.0250	"	5.00	ND	93.2	61.4-133			
p,m-Xylene	9.60	0.0500	"	10.0	ND	96.0	63.3-131			
o-Xylene	4.66	0.0250	"	5.00	ND	93.2	63.3-131			
Total Xylenes	14.3	0.0250	"	15.0	ND	95.1	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.54 " 8.00 94.3 50-150

Matrix Spike Dup (1926019-MSD1)

Source: P906112-01

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Benzene	4.39	0.0250	mg/kg	5.00	ND	87.8	54.3-133	0.667	20	
Toluene	4.75	0.0250	"	5.00	ND	95.0	61.4-130	0.147	20	
Ethylbenzene	4.67	0.0250	"	5.00	ND	93.4	61.4-133	0.212	20	
p,m-Xylene	9.61	0.0500	"	10.0	ND	96.1	63.3-131	0.0833	20	
o-Xylene	4.67	0.0250	"	5.00	ND	93.4	63.3-131	0.179	20	
Total Xylenes	14.3	0.0250	"	15.0	ND	95.2	63.3-131	0.115	20	

Surrogate: 4-Bromochlorobenzene-PID 7.53 " 8.00 94.2 50-150

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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	06/28/19 15:33

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1926026 - DRO Extraction EPA 3570

Blank (1926026-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.1		"	50.0		104	50-200			

LCS (1926026-BS1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500		96.1	38-132			
Surrogate: n-Nonane	54.0		"	50.0		108	50-200			

Matrix Spike (1926026-MS1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	510	25.0	mg/kg	500	ND	102	38-132			
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

Matrix Spike Dup (1926026-MSD1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	506	25.0	mg/kg	500	ND	101	38-132	0.941	20	
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 06/28/19 15:33

Nonhalogenated Organics by 8015 - GRO - 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 1926019 - Purge and Trap EPA 5030A
Blank (1926019-BLK1)

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.93		"	8.00		99.1	50-150			

LCS (1926019-BS2)

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Gasoline Range Organics (C6-C10)	50.4	20.0	mg/kg	50.0		101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.97		"	8.00		99.7	50-150			

Matrix Spike (1926019-MS2)

Source: P906112-01

Prepared: 06/26/19 1 Analyzed: 06/27/19 1

Gasoline Range Organics (C6-C10)	48.9	20.0	mg/kg	50.0	ND	97.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		"	8.00		103	50-150			

Matrix Spike Dup (1926019-MSD2)

Source: P906112-01

Prepared: 06/26/19 1 Analyzed: 06/27/19 0

Gasoline Range Organics (C6-C10)	48.4	20.0	mg/kg	50.0	ND	96.8	70-130	1.02	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.06		"	8.00		101	50-150			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 06/28/19 15:33
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1926030 - Anion Extraction EPA 300.0/9056A

Blank (1926030-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	ND	20.0	mg/kg							
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LCS (1926030-BS1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	255	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1926030-MS1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	251	20.0	mg/kg	250	ND	101	80-120			
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Matrix Spike Dup (1926030-MSD1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	255	20.0	mg/kg	250	ND	102	80-120	1.34	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
06/28/19 15:33

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 6/27/2019

Job Number: 03143-0424

Work Order: P906119

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/1/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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BP America Production Co.
PO Box 22024
Tulsa OK, 74121-2024

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/01/19 15:09

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Source @ 20'	P906119-01A	Soil	06/27/19	06/27/19	Glass Jar, 4 oz.
South @ 15'	P906119-02A	Soil	06/27/19	06/27/19	Glass Jar, 4 oz.
SE @ 15'	P906119-03A	Soil	06/27/19	06/27/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

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 1926029 - Purge and Trap EPA 5030A
Blank (1926029-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/28/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.72 " 8.00 96.5 50-150

LCS (1926029-BS1)

Prepared: 06/27/19 1 Analyzed: 06/28/19 2

Benzene	4.66	0.0250	mg/kg	5.00		93.1	70-130			
Toluene	5.03	0.0250	"	5.00		101	70-130			
Ethylbenzene	4.97	0.0250	"	5.00		99.5	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	4.95	0.0250	"	5.00		99.0	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.71 " 8.00 96.4 50-150

Matrix Spike (1926029-MS1)

Source: P906116-01

Prepared: 06/27/19 1 Analyzed: 06/28/19 2

Benzene	4.80	0.0250	mg/kg	5.00	ND	96.1	54.3-133			
Toluene	5.22	0.0250	"	5.00	ND	104	61.4-130			
Ethylbenzene	5.15	0.0250	"	5.00	ND	103	61.4-133			
p,m-Xylene	10.6	0.0500	"	10.0	ND	106	63.3-131			
o-Xylene	5.14	0.0250	"	5.00	ND	103	63.3-131			
Total Xylenes	15.7	0.0250	"	15.0	ND	105	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.84 " 8.00 97.9 50-150

Matrix Spike Dup (1926029-MSD1)

Source: P906116-01

Prepared: 06/27/19 1 Analyzed: 06/28/19 2

Benzene	4.42	0.0250	mg/kg	5.00	ND	88.3	54.3-133	8.37	20	
Toluene	4.79	0.0250	"	5.00	ND	95.8	61.4-130	8.58	20	
Ethylbenzene	4.75	0.0250	"	5.00	ND	95.0	61.4-133	8.04	20	
p,m-Xylene	9.79	0.0500	"	10.0	ND	97.9	63.3-131	7.87	20	
o-Xylene	4.73	0.0250	"	5.00	ND	94.7	63.3-131	8.17	20	
Total Xylenes	14.5	0.0250	"	15.0	ND	96.8	63.3-131	7.97	20	

Surrogate: 4-Bromochlorobenzene-PID 7.83 " 8.00 97.9 50-150

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1926026 - DRO Extraction EPA 3570
Blank (1926026-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	52.1		"	50.0		104	50-200			

LCS (1926026-BS1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	481	25.0	mg/kg	500		96.1	38-132			
Surrogate: n-Nonane	54.0		"	50.0		108	50-200			

Matrix Spike (1926026-MS1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	510	25.0	mg/kg	500	ND	102	38-132			
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

Matrix Spike Dup (1926026-MSD1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Diesel Range Organics (C10-C28)	506	25.0	mg/kg	500	ND	101	38-132	0.941	20	
Surrogate: n-Nonane	54.6		"	50.0		109	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

Nonhalogenated Organics by 8015 - GRO - 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 1926029 - Purge and Trap EPA 5030A
Blank (1926029-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/28/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.19		"	8.00		102	50-150			

LCS (1926029-BS2)

Prepared: 06/27/19 1 Analyzed: 06/28/19 2

Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.24		"	8.00		103	50-150			

Matrix Spike (1926029-MS2)

Source: P906116-01

Prepared: 06/27/19 1 Analyzed: 06/29/19 0

Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0	ND	101	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		102	50-150			

Matrix Spike Dup (1926029-MSD2)

Source: P906116-01

Prepared: 06/27/19 1 Analyzed: 06/29/19 0

Gasoline Range Organics (C6-C10)	48.4	20.0	mg/kg	50.0	ND	96.8	70-130	3.86	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		101	50-150			

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BP America Production Co.	Project Name:	Florance L 19	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/01/19 15:09

Anions by 300.0/9056A - 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 1926030 - Anion Extraction EPA 300.0/9056A

Blank (1926030-BLK1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	ND	20.0	mg/kg							
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LCS (1926030-BS1)

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	255	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1926030-MS1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	251	20.0	mg/kg	250	ND	101	80-120			
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Matrix Spike Dup (1926030-MSD1)

Source: P906113-01

Prepared: 06/27/19 1 Analyzed: 06/27/19 2

Chloride	255	20.0	mg/kg	250	ND	102	80-120	1.34	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/01/19 15:09

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/1/2019

Job Number: 03143-0424

Work Order: P907002

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/3/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/03/19 17:03

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Wall @ 18'	P907002-01A	Soil	07/01/19	07/01/19	Glass Jar, 4 oz.
West Wall 3-pt (9'-13'-18')	P907002-02A	Soil	07/01/19	07/01/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/03/19 17:03

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 1927001 - Purge and Trap EPA 5030A
Blank (1927001-BLK1)

Prepared: 07/01/19 0 Analyzed: 07/02/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.79 " 8.00 97.4 50-150

LCS (1927001-BS1)

Prepared: 07/01/19 0 Analyzed: 07/02/19 1

Benzene	4.21	0.0250	mg/kg	5.00		84.2	70-130			
Toluene	4.55	0.0250	"	5.00		91.0	70-130			
Ethylbenzene	4.49	0.0250	"	5.00		89.7	70-130			
p,m-Xylene	9.25	0.0500	"	10.0		92.5	70-130			
o-Xylene	4.48	0.0250	"	5.00		89.6	70-130			
Total Xylenes	13.7	0.0250	"	15.0		91.5	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.47 " 8.00 93.4 50-150

Matrix Spike (1927001-MS1)

Source: P906125-01

Prepared: 07/01/19 0 Analyzed: 07/02/19 0

Benzene	4.19	0.0250	mg/kg	5.00	0.0849	82.1	54.3-133			
Toluene	4.52	0.0250	"	5.00	1.10	68.4	61.4-130			
Ethylbenzene	4.44	0.0250	"	5.00	0.299	82.7	61.4-133			
p,m-Xylene	9.13	0.0500	"	10.0	1.06	80.7	63.3-131			
o-Xylene	4.41	0.0250	"	5.00	0.450	79.2	63.3-131			
Total Xylenes	13.5	0.0250	"	15.0	1.51	80.2	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.41 " 8.00 92.6 50-150

Matrix Spike Dup (1927001-MSD1)

Source: P906125-01

Prepared: 07/01/19 0 Analyzed: 07/02/19 0

Benzene	4.22	0.0250	mg/kg	5.00	0.0849	82.7	54.3-133	0.687	20	
Toluene	4.56	0.0250	"	5.00	1.10	69.2	61.4-130	0.878	20	
Ethylbenzene	4.50	0.0250	"	5.00	0.299	84.0	61.4-133	1.39	20	
p,m-Xylene	9.26	0.0500	"	10.0	1.06	81.9	63.3-131	1.36	20	
o-Xylene	4.47	0.0250	"	5.00	0.450	80.4	63.3-131	1.35	20	
Total Xylenes	13.7	0.0250	"	15.0	1.51	81.4	63.3-131	1.36	20	

Surrogate: 4-Bromochlorobenzene-PID 7.36 " 8.00 91.9 50-150

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/03/19 17:03

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1927007 - DRO Extraction EPA 3570

Blank (1927007-BLK1)

Prepared: 07/02/19 0 Analyzed: 07/03/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	57.5		"	50.0		115	50-200			

LCS (1927007-BS1)

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Diesel Range Organics (C10-C28)	517	25.0	mg/kg	500		103	38-132			
Surrogate: n-Nonane	56.1		"	50.0		112	50-200			

Matrix Spike (1927007-MS1)

Source: P906101-01

Prepared: 07/02/19 0 Analyzed: 07/02/19 2

Diesel Range Organics (C10-C28)	1140	50.0	mg/kg	500	557	116	38-132			
Surrogate: n-Nonane	64.7		"	50.0		129	50-200			

Matrix Spike Dup (1927007-MSD1)

Source: P906101-01

Prepared: 07/02/19 0 Analyzed: 07/02/19 2

Diesel Range Organics (C10-C28)	1180	50.0	mg/kg	500	557	124	38-132	3.54	20	
Surrogate: n-Nonane	69.0		"	50.0		138	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/03/19 17:03

Nonhalogenated Organics by 8015 - GRO - 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 1927001 - Purge and Trap EPA 5030A
Blank (1927001-BLK1)

Prepared: 07/01/19 0 Analyzed: 07/02/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.90		"	8.00		98.7	50-150			

LCS (1927001-BS2)

Prepared: 07/01/19 0 Analyzed: 07/02/19 0

Gasoline Range Organics (C6-C10)	45.2	20.0	mg/kg	50.0		90.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		"	8.00		103	50-150			

Matrix Spike (1927001-MS2)

Source: P906125-01

Prepared: 07/01/19 0 Analyzed: 07/02/19 1

Gasoline Range Organics (C6-C10)	45.9	20.0	mg/kg	50.0	ND	91.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		"	8.00		105	50-150			

Matrix Spike Dup (1927001-MSD2)

Source: P906125-01

Prepared: 07/01/19 0 Analyzed: 07/02/19 1

Gasoline Range Organics (C6-C10)	46.4	20.0	mg/kg	50.0	ND	92.8	70-130	1.11	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.40		"	8.00		105	50-150			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/03/19 17:03
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1927006 - Anion Extraction EPA 300.0/9056A

Blank (1927006-BLK1)

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1927006-BS1)

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1927006-MS1)

Source: P907002-02

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	280	20.0	mg/kg	250	ND	112	80-120			
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Matrix Spike Dup (1927006-MSD1)

Source: P907002-02

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120	6.87	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/03/19 17:03

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/2/2019

Job Number: 03143-0424

Work Order: P907005

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/5/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Base @ 25'	P907005-01A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
East Base @ 25'	P907005-02A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
East Wall (12'-22')	P907005-03A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
West Wall (12'-22')	P907005-04A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
South Wall (12'-22')	P907005-05A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
North Wall (12'-22')	P907005-06A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
East Wall (3'-10')	P907005-07A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
North Wall (3'-10')	P907005-08A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
West Wall (3'-10')	P907005-09A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.
South Wall (3'-10')	P907005-10A	Soil	07/02/19	07/02/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

Volatile Organic Compounds by 8260 - 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 1927012 - Purge and Trap EPA 5030A
Blank (1927012-BLK1)

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.484		"	0.500		96.8	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.4	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

LCS (1927012-BS1)

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Benzene	2.67	0.0250	mg/kg	2.50		107	70-130			
Toluene	2.65	0.0250	"	2.50		106	70-130			
Ethylbenzene	2.62	0.0250	"	2.50		105	70-130			
p,m-Xylene	5.19	0.0500	"	5.00		104	70-130			
o-Xylene	2.58	0.0250	"	2.50		103	70-130			
Total Xylenes	7.77	0.0250	"	7.50		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		"	0.500		97.7	70-130			
Surrogate: Toluene-d8	0.485		"	0.500		96.9	70-130			
Surrogate: Bromofluorobenzene	0.489		"	0.500		97.7	70-130			

Matrix Spike (1927012-MS1)

Source: P907004-01

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Benzene	2.74	0.0250	mg/kg	2.50	ND	109	48-131			
Toluene	2.77	0.0250	"	2.50	ND	111	48-130			
Ethylbenzene	2.76	0.0250	"	2.50	ND	110	45-135			
p,m-Xylene	5.47	0.0500	"	5.00	ND	109	43-135			
o-Xylene	2.71	0.0250	"	2.50	ND	108	43-135			
Total Xylenes	8.19	0.0250	"	7.50	ND	109	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.500		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.495		"	0.500		98.9	70-130			
Surrogate: Bromofluorobenzene	0.497		"	0.500		99.3	70-130			

Matrix Spike Dup (1927012-MSD1)

Source: P907004-01

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Benzene	2.60	0.0250	mg/kg	2.50	ND	104	48-131	4.98	23	
Toluene	2.59	0.0250	"	2.50	ND	104	48-130	6.74	24	
Ethylbenzene	2.58	0.0250	"	2.50	ND	103	45-135	6.86	27	
p,m-Xylene	5.10	0.0500	"	5.00	ND	102	43-135	6.98	27	
o-Xylene	2.54	0.0250	"	2.50	ND	101	43-135	6.75	27	
Total Xylenes	7.64	0.0250	"	7.50	ND	102	43-135	6.90	27	
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.7	70-130			

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/05/19 17:29

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1927011 - DRO Extraction EPA 3570

Blank (1927011-BLK1)

Prepared: 07/02/19 1 Analyzed: 07/03/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	59.3		"	50.0		119	50-200			

LCS (1927011-BS1)

Prepared: 07/02/19 1 Analyzed: 07/03/19 1

Diesel Range Organics (C10-C28)	543	25.0	mg/kg	500		109	38-132			
Surrogate: n-Nonane	59.1		"	50.0		118	50-200			

Matrix Spike (1927011-MS1)

Source: P907003-01

Prepared: 07/02/19 1 Analyzed: 07/02/19 2

Diesel Range Organics (C10-C28)	645	25.0	mg/kg	500	115	106	38-132			
Surrogate: n-Nonane	57.5		"	50.0		115	50-200			

Matrix Spike Dup (1927011-MSD1)

Source: P907003-01

Prepared: 07/02/19 1 Analyzed: 07/02/19 2

Diesel Range Organics (C10-C28)	656	25.0	mg/kg	500	115	108	38-132	1.66	20	
Surrogate: n-Nonane	58.3		"	50.0		117	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

Nonhalogenated Organics by 8015 - GRO - 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 1927012 - Purge and Trap EPA 5030A
Blank (1927012-BLK1)

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.484		"	0.500		96.8	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.4	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

LCS (1927012-BS2)

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Gasoline Range Organics (C6-C10)	44.8	20.0	mg/kg	50.0		89.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.494		"	0.500		98.8	70-130			
Surrogate: Bromofluorobenzene	0.458		"	0.500		91.6	70-130			

Matrix Spike (1927012-MS2)

Source: P907004-01

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Gasoline Range Organics (C6-C10)	48.8	20.0	mg/kg	50.0	ND	97.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.493		"	0.500		98.6	70-130			
Surrogate: Toluene-d8	0.492		"	0.500		98.4	70-130			
Surrogate: Bromofluorobenzene	0.473		"	0.500		94.6	70-130			

Matrix Spike Dup (1927012-MSD2)

Source: P907004-01

Prepared: 07/02/19 1 Analyzed: 07/05/19 1

Gasoline Range Organics (C6-C10)	47.6	20.0	mg/kg	50.0	ND	95.1	70-130	2.56	20	
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.2	70-130			
Surrogate: Toluene-d8	0.489		"	0.500		97.7	70-130			
Surrogate: Bromofluorobenzene	0.472		"	0.500		94.3	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

Anions by 300.0/9056A - 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 1927006 - Anion Extraction EPA 300.0/9056A
Blank (1927006-BLK1)

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	ND	20.0	mg/kg
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LCS (1927006-BS1)

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	253	20.0	mg/kg	250	101	90-110
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Matrix Spike (1927006-MS1)
Source: P907002-02

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	280	20.0	mg/kg	250	ND	112	80-120
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Matrix Spike Dup (1927006-MSD1)
Source: P907002-02

Prepared: 07/02/19 0 Analyzed: 07/02/19 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120	6.87	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/05/19 17:29

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/10/2019

Job Number: 03143-0424

Work Order: P907027

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/12/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/12/19 14:24

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Separator Grab @ -16'	P907027-01A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/12/19 14:24

Volatile Organic Compounds by 8260 - 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 1928028 - Purge and Trap EPA 5030A

Blank (1928028-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Surrogate: Bromofluorobenzene	0.478		"	0.500		95.6	70-130			

LCS (1928028-BS1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.61	0.0250	mg/kg	2.50		104	70-130			
Toluene	2.44	0.0250	"	2.50		97.4	70-130			
Ethylbenzene	2.49	0.0250	"	2.50		99.6	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.8	70-130			
o-Xylene	2.45	0.0250	"	2.50		98.1	70-130			
Total Xylenes	7.39	0.0250	"	7.50		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.484		"	0.500		96.8	70-130			
Surrogate: Bromofluorobenzene	0.477		"	0.500		95.3	70-130			

Matrix Spike (1928028-MS1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.55	0.0250	mg/kg	2.50	ND	102	48-131			
Toluene	2.44	0.0250	"	2.50	0.0365	96.3	48-130			
Ethylbenzene	2.51	0.0250	"	2.50	ND	100	45-135			
p,m-Xylene	5.43	0.0500	"	5.00	0.322	102	43-135			
o-Xylene	2.59	0.0250	"	2.50	0.105	99.5	43-135			
Total Xylenes	8.02	0.0250	"	7.50	0.427	101	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.431		"	0.500		86.1	70-130			

Matrix Spike Dup (1928028-MSD1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.58	0.0250	mg/kg	2.50	ND	103	48-131	1.23	23	
Toluene	2.46	0.0250	"	2.50	0.0365	97.1	48-130	0.876	24	
Ethylbenzene	2.52	0.0250	"	2.50	ND	101	45-135	0.636	27	
p,m-Xylene	5.31	0.0500	"	5.00	0.322	99.7	43-135	2.27	27	
o-Xylene	2.57	0.0250	"	2.50	0.105	98.4	43-135	1.01	27	
Total Xylenes	7.87	0.0250	"	7.50	0.427	99.3	43-135	1.86	27	
Surrogate: 1,2-Dichloroethane-d4	0.486		"	0.500		97.1	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.407		"	0.500		81.3	70-130			

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/12/19 14:24

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1928027 - DRO Extraction EPA 3570

Blank (1928027-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.2		"	50.0		102	50-200			

LCS (1928027-BS1)

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			

Matrix Spike (1928027-MS1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	682	25.0	mg/kg	500	121	112	38-132			
Surrogate: n-Nonane	58.7		"	50.0		117	50-200			

Matrix Spike Dup (1928027-MSD1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	633	25.0	mg/kg	500	121	102	38-132	7.47	20	
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:24

Nonhalogenated Organics by 8015 - GRO - 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 1928028 - Purge and Trap EPA 5030A
Blank (1928028-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Surrogate: Bromofluorobenzene	0.478		"	0.500		95.6	70-130			

LCS (1928028-BS2)

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	54.3	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		"	0.500		97.3	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.4	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.7	70-130			

Matrix Spike (1928028-MS2)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	126	20.0	mg/kg	50.0	49.5	154	70-130			SPK1
Surrogate: 1,2-Dichloroethane-d4	0.482		"	0.500		96.4	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.403		"	0.500		80.5	70-130			

Matrix Spike Dup (1928028-MSD2)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	99.0	20.0	mg/kg	50.0	49.5	99.0	70-130	24.3	20	D1
Surrogate: 1,2-Dichloroethane-d4	0.486		"	0.500		97.2	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.411		"	0.500		82.2	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:24

Anions by 300.0/9056A - 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 1928025 - Anion Extraction EPA 300.0/9056A
Blank (1928025-BLK1)

Prepared & Analyzed: 07/10/19 1

Chloride	ND	20.0	mg/kg
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LCS (1928025-BS1)

Prepared & Analyzed: 07/10/19 1

Chloride	255	20.0	mg/kg	250	102	90-110
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LCS Dup (1928025-BSD1)

Prepared & Analyzed: 07/10/19 1

Chloride	253	20.0	mg/kg	250	101	90-110	0.445	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/12/19 14:24
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

SPK1 The spike recovery is outside of quality control limits.

D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

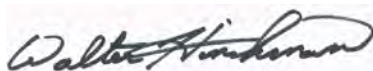
Samples Received: 7/10/2019

Job Number: 03143-0424

Work Order: P907028

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/12/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-1	P907028-01A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-2	P907028-02A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-3	P907028-03A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-4	P907028-04A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-5	P907028-05A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-6	P907028-06A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-7	P907028-07A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-8	P907028-08A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-9	P907028-09A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.
TSP-10	P907028-10A	Soil	07/10/19	07/10/19	Glass Jar, 4 oz.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/12/19 14:25

Volatile Organic Compounds by 8260 - 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 1928028 - Purge and Trap EPA 5030A

Blank (1928028-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Surrogate: Bromofluorobenzene	0.478		"	0.500		95.6	70-130			

LCS (1928028-BS1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.61	0.0250	mg/kg	2.50		104	70-130			
Toluene	2.44	0.0250	"	2.50		97.4	70-130			
Ethylbenzene	2.49	0.0250	"	2.50		99.6	70-130			
p,m-Xylene	4.94	0.0500	"	5.00		98.8	70-130			
o-Xylene	2.45	0.0250	"	2.50		98.1	70-130			
Total Xylenes	7.39	0.0250	"	7.50		98.6	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.484		"	0.500		96.8	70-130			
Surrogate: Bromofluorobenzene	0.477		"	0.500		95.3	70-130			

Matrix Spike (1928028-MS1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.55	0.0250	mg/kg	2.50	ND	102	48-131			
Toluene	2.44	0.0250	"	2.50	0.0365	96.3	48-130			
Ethylbenzene	2.51	0.0250	"	2.50	ND	100	45-135			
p,m-Xylene	5.43	0.0500	"	5.00	0.322	102	43-135			
o-Xylene	2.59	0.0250	"	2.50	0.105	99.5	43-135			
Total Xylenes	8.02	0.0250	"	7.50	0.427	101	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.503		"	0.500		101	70-130			
Surrogate: Bromofluorobenzene	0.431		"	0.500		86.1	70-130			

Matrix Spike Dup (1928028-MSD1)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Benzene	2.58	0.0250	mg/kg	2.50	ND	103	48-131	1.23	23	
Toluene	2.46	0.0250	"	2.50	0.0365	97.1	48-130	0.876	24	
Ethylbenzene	2.52	0.0250	"	2.50	ND	101	45-135	0.636	27	
p,m-Xylene	5.31	0.0500	"	5.00	0.322	99.7	43-135	2.27	27	
o-Xylene	2.57	0.0250	"	2.50	0.105	98.4	43-135	1.01	27	
Total Xylenes	7.87	0.0250	"	7.50	0.427	99.3	43-135	1.86	27	
Surrogate: 1,2-Dichloroethane-d4	0.486		"	0.500		97.1	70-130			
Surrogate: Toluene-d8	0.497		"	0.500		99.4	70-130			
Surrogate: Bromofluorobenzene	0.407		"	0.500		81.3	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1928027 - DRO Extraction EPA 3570
Blank (1928027-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.2		"	50.0		102	50-200			

LCS (1928027-BS1)

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.2	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			

Matrix Spike (1928027-MS1)
Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	682	25.0	mg/kg	500	121	112	38-132			
Surrogate: n-Nonane	58.7		"	50.0		117	50-200			

Matrix Spike Dup (1928027-MSD1)
Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/10/19 2

Diesel Range Organics (C10-C28)	633	25.0	mg/kg	500	121	102	38-132	7.47	20	
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

Nonhalogenated Organics by 8015 - GRO - 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 1928028 - Purge and Trap EPA 5030A
Blank (1928028-BLK1)

Prepared: 07/10/19 1 Analyzed: 07/11/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.514		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.490		"	0.500		98.0	70-130			
Surrogate: Bromofluorobenzene	0.478		"	0.500		95.6	70-130			

LCS (1928028-BS2)

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	54.3	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.487		"	0.500		97.3	70-130			
Surrogate: Toluene-d8	0.487		"	0.500		97.4	70-130			
Surrogate: Bromofluorobenzene	0.479		"	0.500		95.7	70-130			

Matrix Spike (1928028-MS2)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	126	20.0	mg/kg	50.0	49.5	154	70-130			SPK1
Surrogate: 1,2-Dichloroethane-d4	0.482		"	0.500		96.4	70-130			
Surrogate: Toluene-d8	0.522		"	0.500		104	70-130			
Surrogate: Bromofluorobenzene	0.403		"	0.500		80.5	70-130			

Matrix Spike Dup (1928028-MSD2)

Source: P907028-01

Prepared: 07/10/19 1 Analyzed: 07/11/19 1

Gasoline Range Organics (C6-C10)	99.0	20.0	mg/kg	50.0	49.5	99.0	70-130	24.3	20	D1
Surrogate: 1,2-Dichloroethane-d4	0.486		"	0.500		97.2	70-130			
Surrogate: Toluene-d8	0.514		"	0.500		103	70-130			
Surrogate: Bromofluorobenzene	0.411		"	0.500		82.2	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

Anions by 300.0/9056A - 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 1928025 - Anion Extraction EPA 300.0/9056A
Blank (1928025-BLK1)

Prepared & Analyzed: 07/10/19 1

Chloride	ND	20.0	mg/kg
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LCS (1928025-BS1)

Prepared & Analyzed: 07/10/19 1

Chloride	255	20.0	mg/kg	250	102	90-110
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LCS Dup (1928025-BSD1)

Prepared & Analyzed: 07/10/19 1

Chloride	253	20.0	mg/kg	250	101	90-110	0.445	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/12/19 14:25

Notes and Definitions

SPK1 The spike recovery is outside of quality control limits.

D1 Duplicates or Matrix Spike Duplicates or Laboratory Control Sample Duplicates Relative Percent Difference is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/12/2019

Job Number: 03143-0424

Work Order: P907035

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/16/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/16/19 13:48

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-11	P907035-01A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.
TSP-12	P907035-02A	Soil	07/12/19	07/12/19	Glass Jar, 4 oz.

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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/16/19 13:48

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 1928047 - Purge and Trap EPA 5030A

Blank (1928047-BLK1)

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	7.69	"	8.00	96.1	50-150
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LCS (1928047-BS1)

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Benzene	4.30	0.0250	mg/kg	5.00		86.0	70-130			
Toluene	4.67	0.0250	"	5.00		93.4	70-130			
Ethylbenzene	4.65	0.0250	"	5.00		93.1	70-130			
p,m-Xylene	9.60	0.0500	"	10.0		96.0	70-130			
o-Xylene	4.65	0.0250	"	5.00		93.0	70-130			
Total Xylenes	14.3	0.0250	"	15.0		95.0	70-130			

Surrogate: 4-Bromochlorobenzene-PID	7.70	"	8.00	96.3	50-150
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Matrix Spike (1928047-MS1)

Source: P907034-01

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Benzene	4.46	0.0250	mg/kg	5.00	ND	89.1	54.3-133			
Toluene	4.83	0.0250	"	5.00	ND	96.5	61.4-130			
Ethylbenzene	4.80	0.0250	"	5.00	ND	96.0	61.4-133			
p,m-Xylene	9.88	0.0500	"	10.0	ND	98.8	63.3-131			
o-Xylene	4.78	0.0250	"	5.00	ND	95.5	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	97.7	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID	7.72	"	8.00	96.5	50-150
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Matrix Spike Dup (1928047-MSD1)

Source: P907034-01

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Benzene	4.17	0.0250	mg/kg	5.00	ND	83.4	54.3-133	6.67	20	
Toluene	4.53	0.0250	"	5.00	ND	90.5	61.4-130	6.45	20	
Ethylbenzene	4.50	0.0250	"	5.00	ND	90.0	61.4-133	6.42	20	
p,m-Xylene	9.29	0.0500	"	10.0	ND	92.9	63.3-131	6.20	20	
o-Xylene	4.49	0.0250	"	5.00	ND	89.7	63.3-131	6.28	20	
Total Xylenes	13.8	0.0250	"	15.0	ND	91.8	63.3-131	6.23	20	

Surrogate: 4-Bromochlorobenzene-PID	7.74	"	8.00	96.8	50-150
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/16/19 13:48

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1928040 - DRO Extraction EPA 3570
Blank (1928040-BLK1)

Prepared: 07/12/19 0 Analyzed: 07/15/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	54.9		"	50.0		110	50-200			

LCS (1928040-BS1)

Prepared: 07/12/19 0 Analyzed: 07/15/19 1

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.3	38-132			
Surrogate: n-Nonane	50.7		"	50.0		101	50-200			

Matrix Spike (1928040-MS1)

Source: P907029-01

Prepared: 07/12/19 0 Analyzed: 07/15/19 1

Diesel Range Organics (C10-C28)	530	25.0	mg/kg	500	40.4	98.0	38-132			
Surrogate: n-Nonane	50.5		"	50.0		101	50-200			

Matrix Spike Dup (1928040-MSD1)

Source: P907029-01

Prepared: 07/12/19 0 Analyzed: 07/15/19 1

Diesel Range Organics (C10-C28)	534	25.0	mg/kg	500	40.4	98.7	38-132	0.660	20	
Surrogate: n-Nonane	50.7		"	50.0		101	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/16/19 13:48

Nonhalogenated Organics by 8015 - GRO - 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 1928047 - Purge and Trap EPA 5030A
Blank (1928047-BLK1)

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		103	50-150			

LCS (1928047-BS2)

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Gasoline Range Organics (C6-C10)	55.4	20.0	mg/kg	50.0		111	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150			

Matrix Spike (1928047-MS2)

Source: P907034-01

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Gasoline Range Organics (C6-C10)	54.8	20.0	mg/kg	50.0	ND	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.26		"	8.00		103	50-150			

Matrix Spike Dup (1928047-MSD2)

Source: P907034-01

Prepared: 07/12/19 1 Analyzed: 07/15/19 1

Gasoline Range Organics (C6-C10)	52.3	20.0	mg/kg	50.0	ND	105	70-130	4.55	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		104	50-150			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/16/19 13:48

Anions by 300.0/9056A - 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 1928046 - Anion Extraction EPA 300.0/9056A
Blank (1928046-BLK1)

Prepared & Analyzed: 07/12/19 1

Chloride	ND	20.0	mg/kg
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LCS (1928046-BS1)

Prepared & Analyzed: 07/12/19 1

Chloride	267	20.0	mg/kg	250	107	90-110
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Matrix Spike (1928046-MS1)
Source: P907029-01

Prepared & Analyzed: 07/12/19 1

Chloride	594	20.0	mg/kg	250	329	106	80-120
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Matrix Spike Dup (1928046-MSD1)
Source: P907029-01

Prepared & Analyzed: 07/12/19 1

Chloride	587	20.0	mg/kg	250	329	103	80-120	1.27	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/16/19 13:48

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/17/2019

Job Number: 03143-0424

Work Order: P907053

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/19/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South WSW 5-pt. (3'-10')	P907053-01A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.
North WSW 5-pt. (3'-10')	P907053-02A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.
WSW Base 6-pt. @10'	P907053-03A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.
NW Base 5-pt. @20'	P907053-04A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.

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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/19/19 15:36

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 1929019 - Purge and Trap EPA 5030A

Blank (1929019-BLK1)

Prepared & Analyzed: 07/17/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	7.69	"	8.00	96.2	50-150
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LCS (1929019-BS1)

Prepared & Analyzed: 07/17/19 1

Benzene	4.31	0.0250	mg/kg	5.00		86.2	70-130			
Toluene	4.69	0.0250	"	5.00		93.8	70-130			
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130			
p,m-Xylene	9.60	0.0500	"	10.0		96.0	70-130			
o-Xylene	4.64	0.0250	"	5.00		92.7	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID	7.69	"	8.00	96.1	50-150
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Matrix Spike (1929019-MS1)

Source: P907049-01

Prepared & Analyzed: 07/17/19 1

Benzene	4.38	0.0250	mg/kg	5.00	ND	87.6	54.3-133			
Toluene	4.76	0.0250	"	5.00	ND	95.3	61.4-130			
Ethylbenzene	4.74	0.0250	"	5.00	ND	94.8	61.4-133			
p,m-Xylene	9.75	0.0500	"	10.0	ND	97.5	63.3-131			
o-Xylene	4.71	0.0250	"	5.00	ND	94.3	63.3-131			
Total Xylenes	14.5	0.0250	"	15.0	ND	96.5	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID	7.84	"	8.00	98.0	50-150
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Matrix Spike Dup (1929019-MSD1)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Benzene	4.40	0.0250	mg/kg	5.00	ND	88.1	54.3-133	0.567	20	
Toluene	4.79	0.0250	"	5.00	ND	95.9	61.4-130	0.627	20	
Ethylbenzene	4.78	0.0250	"	5.00	ND	95.5	61.4-133	0.735	20	
p,m-Xylene	9.83	0.0500	"	10.0	ND	98.3	63.3-131	0.752	20	
o-Xylene	4.75	0.0250	"	5.00	ND	95.1	63.3-131	0.848	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.2	63.3-131	0.783	20	

Surrogate: 4-Bromochlorobenzene-PID	7.90	"	8.00	98.8	50-150
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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/19/19 15:36

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1929026 - DRO Extraction EPA 3570

Blank (1929026-BLK1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	57.8		"	50.0		116	50-200			

LCS (1929026-BS1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	507	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	52.0		"	50.0		104	50-200			

Matrix Spike (1929026-MS1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	1260	25.0	mg/kg	500	658	121	38-132			
Surrogate: n-Nonane	67.0		"	50.0		134	50-200			

Matrix Spike Dup (1929026-MSD1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	1210	25.0	mg/kg	500	658	111	38-132	3.97	20	
Surrogate: n-Nonane	65.9		"	50.0		132	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

Nonhalogenated Organics by 8015 - GRO - 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 1929019 - Purge and Trap EPA 5030A
Blank (1929019-BLK1)

Prepared & Analyzed: 07/17/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		"	8.00		101	50-150			

LCS (1929019-BS2)

Prepared & Analyzed: 07/17/19 1

Gasoline Range Organics (C6-C10)	54.5	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150			

Matrix Spike (1929019-MS2)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Gasoline Range Organics (C6-C10)	54.3	20.0	mg/kg	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			

Matrix Spike Dup (1929019-MSD2)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Gasoline Range Organics (C6-C10)	51.8	20.0	mg/kg	50.0	ND	104	70-130	4.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.25		"	8.00		103	50-150			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:36

Anions by 300.0/9056A - 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 1929027 - Anion Extraction EPA 300.0/9056A
Blank (1929027-BLK1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride ND 20.0 mg/kg

LCS (1929027-BS1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride 255 20.0 mg/kg 250 102 90-110

Matrix Spike (1929027-MS1)
Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride 261 20.0 mg/kg 250 ND 104 80-120

Matrix Spike Dup (1929027-MSD1)
Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride 263 20.0 mg/kg 250 ND 105 80-120 0.942 20

QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/19/19 15:36

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/17/2019

Job Number: 03143-0424

Work Order: P907054

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/19/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/19/19 15:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-13	P907054-01A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.
TSP-14	P907054-02A	Soil	07/17/19	07/17/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:35

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 1929019 - Purge and Trap EPA 5030A
Blank (1929019-BLK1)

Prepared & Analyzed: 07/17/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.69 " 8.00 96.2 50-150

LCS (1929019-BS1)

Prepared & Analyzed: 07/17/19 1

Benzene	4.31	0.0250	mg/kg	5.00		86.2	70-130			
Toluene	4.69	0.0250	"	5.00		93.8	70-130			
Ethylbenzene	4.66	0.0250	"	5.00		93.2	70-130			
p,m-Xylene	9.60	0.0500	"	10.0		96.0	70-130			
o-Xylene	4.64	0.0250	"	5.00		92.7	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.9	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.69 " 8.00 96.1 50-150

Matrix Spike (1929019-MS1)

Source: P907049-01

Prepared & Analyzed: 07/17/19 1

Benzene	4.38	0.0250	mg/kg	5.00	ND	87.6	54.3-133			
Toluene	4.76	0.0250	"	5.00	ND	95.3	61.4-130			
Ethylbenzene	4.74	0.0250	"	5.00	ND	94.8	61.4-133			
p,m-Xylene	9.75	0.0500	"	10.0	ND	97.5	63.3-131			
o-Xylene	4.71	0.0250	"	5.00	ND	94.3	63.3-131			
Total Xylenes	14.5	0.0250	"	15.0	ND	96.5	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.84 " 8.00 98.0 50-150

Matrix Spike Dup (1929019-MSD1)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Benzene	4.40	0.0250	mg/kg	5.00	ND	88.1	54.3-133	0.567	20	
Toluene	4.79	0.0250	"	5.00	ND	95.9	61.4-130	0.627	20	
Ethylbenzene	4.78	0.0250	"	5.00	ND	95.5	61.4-133	0.735	20	
p,m-Xylene	9.83	0.0500	"	10.0	ND	98.3	63.3-131	0.752	20	
o-Xylene	4.75	0.0250	"	5.00	ND	95.1	63.3-131	0.848	20	
Total Xylenes	14.6	0.0250	"	15.0	ND	97.2	63.3-131	0.783	20	

Surrogate: 4-Bromochlorobenzene-PID 7.90 " 8.00 98.8 50-150

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:35

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1929026 - DRO Extraction EPA 3570
Blank (1929026-BLK1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	57.8		"	50.0		116	50-200			

LCS (1929026-BS1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	507	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	52.0		"	50.0		104	50-200			

Matrix Spike (1929026-MS1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	1260	25.0	mg/kg	500	658	121	38-132			
Surrogate: n-Nonane	67.0		"	50.0		134	50-200			

Matrix Spike Dup (1929026-MSD1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Diesel Range Organics (C10-C28)	1210	25.0	mg/kg	500	658	111	38-132	3.97	20	
Surrogate: n-Nonane	65.9		"	50.0		132	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/19/19 15:35

Nonhalogenated Organics by 8015 - GRO - 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 1929019 - Purge and Trap EPA 5030A
Blank (1929019-BLK1)

Prepared & Analyzed: 07/17/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		"	8.00		101	50-150			

LCS (1929019-BS2)

Prepared & Analyzed: 07/17/19 1

Gasoline Range Organics (C6-C10)	54.5	20.0	mg/kg	50.0		109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.27		"	8.00		103	50-150			

Matrix Spike (1929019-MS2)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Gasoline Range Organics (C6-C10)	54.3	20.0	mg/kg	50.0	ND	109	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			

Matrix Spike Dup (1929019-MSD2)

Source: P907049-01

Prepared: 07/17/19 1 Analyzed: 07/17/19 2

Gasoline Range Organics (C6-C10)	51.8	20.0	mg/kg	50.0	ND	104	70-130	4.74	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.25		"	8.00		103	50-150			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/19/19 15:35
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1929027 - Anion Extraction EPA 300.0/9056A

Blank (1929027-BLK1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1929027-BS1)

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride	255	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1929027-MS1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120			
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Matrix Spike Dup (1929027-MSD1)

Source: P907053-01

Prepared: 07/18/19 0 Analyzed: 07/18/19 1

Chloride	263	20.0	mg/kg	250	ND	105	80-120	0.942	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/19/19 15:35

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/19/2019

Job Number: 03143-0424

Work Order: P907071

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/23/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW East Wall (0'-7')	P907071-01A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW East Wall (7'-14')	P907071-02A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW East Wall (14'-22')	P907071-03A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW North Wall (0'-7')	P907071-04A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW North Wall (7'-14')	P907071-05A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW North Wall (14'-22')	P907071-06A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW West Wall (0'-7')	P907071-07A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW West Wall (7'-14')	P907071-08A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW West Wall (14'-22')	P907071-09A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW Base North 1/2 @ 23'	P907071-10A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.
NW Base South 1/2 @ 23'	P907071-11A	Soil	07/19/19	07/19/19	Glass Jar, 4 oz.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

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 1930001 - Purge and Trap EPA 5030A
Blank (1930001-BLK1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 2

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID 7.73 " 8.00 96.6 50-150

LCS (1930001-BS1)

Prepared: 07/22/19 0 Analyzed: 07/23/19 0

Benzene	4.20	0.0250	mg/kg	5.00		84.0	70-130			
Toluene	4.65	0.0250	"	5.00		93.1	70-130			
Ethylbenzene	4.65	0.0250	"	5.00		93.0	70-130			
p,m-Xylene	9.61	0.0500	"	10.0		96.1	70-130			
o-Xylene	4.66	0.0250	"	5.00		93.2	70-130			
Total Xylenes	14.3	0.0250	"	15.0		95.1	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.81 " 8.00 97.6 50-150

Matrix Spike (1930001-MS1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/23/19 1

Benzene	4.78	0.0250	mg/kg	5.00	ND	95.6	54.3-133			
Toluene	5.03	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	4.96	0.0250	"	5.00	ND	99.2	61.4-133			
p,m-Xylene	9.98	0.0500	"	10.0	ND	99.8	63.3-131			
o-Xylene	4.83	0.0250	"	5.00	ND	96.5	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.7	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 7.35 " 8.00 91.9 50-150

Matrix Spike Dup (1930001-MSD1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/23/19 1

Benzene	4.33	0.0250	mg/kg	5.00	ND	86.5	54.3-133	9.92	20	
Toluene	4.76	0.0250	"	5.00	ND	95.2	61.4-130	5.39	20	
Ethylbenzene	4.74	0.0250	"	5.00	ND	94.8	61.4-133	4.56	20	
p,m-Xylene	9.75	0.0500	"	10.0	ND	97.5	63.3-131	2.27	20	
o-Xylene	4.74	0.0250	"	5.00	ND	94.8	63.3-131	1.78	20	
Total Xylenes	14.5	0.0250	"	15.0	ND	96.6	63.3-131	2.11	20	

Surrogate: 4-Bromochlorobenzene-PID 7.51 " 8.00 93.9 50-150

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1930002 - DRO Extraction EPA 3570
Blank (1930002-BLK1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	67.0		"	50.0		134	50-200			

LCS (1930002-BS1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Diesel Range Organics (C10-C28)	602	25.0	mg/kg	500		120	38-132			
Surrogate: n-Nonane	57.5		"	50.0		115	50-200			

Matrix Spike (1930002-MS1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Diesel Range Organics (C10-C28)	582	25.0	mg/kg	500	ND	116	38-132			
Surrogate: n-Nonane	53.3		"	50.0		107	50-200			

Matrix Spike Dup (1930002-MSD1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Diesel Range Organics (C10-C28)	566	25.0	mg/kg	500	ND	113	38-132	2.85	20	
Surrogate: n-Nonane	51.5		"	50.0		103	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/23/19 16:28

Nonhalogenated Organics by 8015 - GRO - 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 1930001 - Purge and Trap EPA 5030A
Blank (1930001-BLK1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.08		"	8.00		101	50-150			

LCS (1930001-BS2)

Prepared: 07/22/19 0 Analyzed: 07/23/19 1

Gasoline Range Organics (C6-C10)	53.9	20.0	mg/kg	50.0		108	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.05		"	8.00		101	50-150			

Matrix Spike (1930001-MS2)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/23/19 1

Gasoline Range Organics (C6-C10)	50.0	20.0	mg/kg	50.0	ND	100	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		102	50-150			

Matrix Spike Dup (1930001-MSD2)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/23/19 1

Gasoline Range Organics (C6-C10)	45.3	20.0	mg/kg	50.0	ND	90.6	70-130	9.88	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.01		"	8.00		100	50-150			

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BP America Production Co.	Project Name: Florance L 19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	07/23/19 16:28

Anions by 300.0/9056A - 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 1930003 - Anion Extraction EPA 300.0/9056A

Blank (1930003-BLK1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Chloride	ND	20.0	mg/kg
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LCS (1930003-BS1)

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Chloride	255	20.0	mg/kg	250	102	90-110
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Matrix Spike (1930003-MS1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Chloride	258	20.0	mg/kg	250	ND	103	80-120
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Matrix Spike Dup (1930003-MSD1)

Source: P907071-01

Prepared: 07/22/19 0 Analyzed: 07/22/19 1

Chloride	258	20.0	mg/kg	250	ND	103	80-120	0.182	20
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/23/19 16:28

Notes and Definitions

Surr2 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

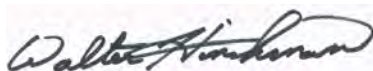
Samples Received: 7/24/2019

Job Number: 03143-0424

Work Order: P907088

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/26/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-15	P907088-01A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.
TSP-16	P907088-02A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:29

Volatile Organic Compounds by 8260 - 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 1930020 - Purge and Trap EPA 5030A

Blank (1930020-BLK1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1930020-BS1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.77	0.0250	mg/kg	2.50		111	70-130			
Toluene	2.56	0.0250	"	2.50		102	70-130			
Ethylbenzene	2.57	0.0250	"	2.50		103	70-130			
p,m-Xylene	5.12	0.0500	"	5.00		102	70-130			
o-Xylene	2.50	0.0250	"	2.50		100	70-130			
Total Xylenes	7.62	0.0250	"	7.50		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.483		"	0.500		96.6	70-130			
Surrogate: Bromofluorobenzene	0.464		"	0.500		92.8	70-130			

Matrix Spike (1930020-MS1)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.59	0.0250	mg/kg	2.50	ND	104	48-131			
Toluene	2.38	0.0250	"	2.50	ND	95.4	48-130			
Ethylbenzene	2.44	0.0250	"	2.50	ND	97.5	45-135			
p,m-Xylene	4.86	0.0500	"	5.00	ND	97.1	43-135			
o-Xylene	2.38	0.0250	"	2.50	ND	95.4	43-135			
Total Xylenes	7.24	0.0250	"	7.50	ND	96.6	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.481		"	0.500		96.1	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike Dup (1930020-MSD1)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.83	0.0250	mg/kg	2.50	ND	113	48-131	8.81	23	
Toluene	2.59	0.0250	"	2.50	ND	104	48-130	8.28	24	
Ethylbenzene	2.63	0.0250	"	2.50	ND	105	45-135	7.45	27	
p,m-Xylene	5.22	0.0500	"	5.00	ND	104	43-135	7.23	27	
o-Xylene	2.56	0.0250	"	2.50	ND	102	43-135	6.90	27	
Total Xylenes	7.78	0.0250	"	7.50	ND	104	43-135	7.12	27	
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.477		"	0.500		95.3	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:29

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1930029 - DRO Extraction EPA 3570
Blank (1930029-BLK1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	35.8		"	50.0		71.5	50-200			

LCS (1930029-BS1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	475	25.0	mg/kg	500		95.0	38-132			
Surrogate: n-Nonane	36.1		"	50.0		72.2	50-200			

Matrix Spike (1930029-MS1)

Source: P907089-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	598	25.0	mg/kg	500	136	92.4	38-132			
Surrogate: n-Nonane	39.9		"	50.0		79.9	50-200			

Matrix Spike Dup (1930029-MSD1)

Source: P907089-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	633	25.0	mg/kg	500	136	99.4	38-132	5.68	20	
Surrogate: n-Nonane	40.4		"	50.0		80.7	50-200			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:29

Nonhalogenated Organics by 8015 - GRO - 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 1930020 - Purge and Trap EPA 5030A
Blank (1930020-BLK1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1930020-BS2)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		"	0.500		99.3	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		93.9	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.1	70-130			

Matrix Spike (1930020-MS2)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		93.9	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		94.9	70-130			

Matrix Spike Dup (1930020-MSD2)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	44.4	20.0	mg/kg	50.0	ND	88.7	70-130	3.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.473		"	0.500		94.6	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		94.9	70-130			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/26/19 14:29
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1930030 - Anion Extraction EPA 300.0/9056A

Blank (1930030-BLK1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1930030-BS1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1930030-MS1)

Source: P907088-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	260	20.0	mg/kg	250	ND	104	80-120			
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Matrix Spike Dup (1930030-MSD1)

Source: P907088-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.0577	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:29

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/24/2019

Job Number: 03143-0424

Work Order: P907089

Project Name/Location: Florance L 19

Report Reviewed By:



Date: 7/26/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:30

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW West Wall (II) (0'-7')	P907089-01A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.
NW West Wall (II) (7'-14')	P907089-02A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.
NW West Wall Base @ 14'	P907089-03A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.
NW Base South 1/2 @ 26'	P907089-04A	Soil	07/24/19	07/24/19	Glass Jar, 4 oz.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:30

Volatile Organic Compounds by 8260 - 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 1930020 - Purge and Trap EPA 5030A

Blank (1930020-BLK1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1930020-BS1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.77	0.0250	mg/kg	2.50		111	70-130			
Toluene	2.56	0.0250	"	2.50		102	70-130			
Ethylbenzene	2.57	0.0250	"	2.50		103	70-130			
p,m-Xylene	5.12	0.0500	"	5.00		102	70-130			
o-Xylene	2.50	0.0250	"	2.50		100	70-130			
Total Xylenes	7.62	0.0250	"	7.50		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.508		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.483		"	0.500		96.6	70-130			
Surrogate: Bromofluorobenzene	0.464		"	0.500		92.8	70-130			

Matrix Spike (1930020-MS1)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.59	0.0250	mg/kg	2.50	ND	104	48-131			
Toluene	2.38	0.0250	"	2.50	ND	95.4	48-130			
Ethylbenzene	2.44	0.0250	"	2.50	ND	97.5	45-135			
p,m-Xylene	4.86	0.0500	"	5.00	ND	97.1	43-135			
o-Xylene	2.38	0.0250	"	2.50	ND	95.4	43-135			
Total Xylenes	7.24	0.0250	"	7.50	ND	96.6	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.509		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.481		"	0.500		96.1	70-130			
Surrogate: Bromofluorobenzene	0.487		"	0.500		97.4	70-130			

Matrix Spike Dup (1930020-MSD1)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Benzene	2.83	0.0250	mg/kg	2.50	ND	113	48-131	8.81	23	
Toluene	2.59	0.0250	"	2.50	ND	104	48-130	8.28	24	
Ethylbenzene	2.63	0.0250	"	2.50	ND	105	45-135	7.45	27	
p,m-Xylene	5.22	0.0500	"	5.00	ND	104	43-135	7.23	27	
o-Xylene	2.56	0.0250	"	2.50	ND	102	43-135	6.90	27	
Total Xylenes	7.78	0.0250	"	7.50	ND	104	43-135	7.12	27	
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.477		"	0.500		95.3	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

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

 Project Name: Florance L 19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/26/19 14:30

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1930029 - DRO Extraction EPA 3570
Blank (1930029-BLK1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	35.8		"	50.0		71.5	50-200			

LCS (1930029-BS1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	475	25.0	mg/kg	500		95.0	38-132			
Surrogate: n-Nonane	36.1		"	50.0		72.2	50-200			

Matrix Spike (1930029-MS1)

Source: P907089-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	598	25.0	mg/kg	500	136	92.4	38-132			
Surrogate: n-Nonane	39.9		"	50.0		79.9	50-200			

Matrix Spike Dup (1930029-MSD1)

Source: P907089-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Diesel Range Organics (C10-C28)	633	25.0	mg/kg	500	136	99.4	38-132	5.68	20	
Surrogate: n-Nonane	40.4		"	50.0		80.7	50-200			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/26/19 14:30
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Nonhalogenated Organics by 8015 - GRO - 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 1930020 - Purge and Trap EPA 5030A

Blank (1930020-BLK1)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.3	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.463		"	0.500		92.6	70-130			

LCS (1930020-BS2)

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	49.7	20.0	mg/kg	50.0		99.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.497		"	0.500		99.3	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		93.9	70-130			
Surrogate: Bromofluorobenzene	0.471		"	0.500		94.1	70-130			

Matrix Spike (1930020-MS2)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0	ND	92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.488		"	0.500		97.5	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		93.9	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		94.9	70-130			

Matrix Spike Dup (1930020-MSD2)

Source: P907081-01

Prepared: 07/24/19 0 Analyzed: 07/24/19 1

Gasoline Range Organics (C6-C10)	44.4	20.0	mg/kg	50.0	ND	88.7	70-130	3.60	20	
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.473		"	0.500		94.6	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		94.9	70-130			

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BP America Production Co.	Project Name:	Florance L 19	Reported: 07/26/19 14:30
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1930030 - Anion Extraction EPA 300.0/9056A

Blank (1930030-BLK1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1930030-BS1)

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	253	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1930030-MS1)

Source: P907088-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	260	20.0	mg/kg	250	ND	104	80-120			
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Matrix Spike Dup (1930030-MSD1)

Source: P907088-01

Prepared: 07/25/19 0 Analyzed: 07/25/19 1

Chloride	260	20.0	mg/kg	250	ND	104	80-120	0.0577	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L 19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/26/19 14:30

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/26/2019

Job Number: 03143-0424

Work Order: P907105

Project Name/Location: Florance L #19

Report Reviewed By:



Date: 7/30/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/30/19 16:59

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-17	P907105-01A	Soil	07/26/19	07/26/19	Glass Jar, 4 oz.

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

Volatile Organic Compounds by 8260 - 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 1930042 - Purge and Trap EPA 5030A
Blank (1930042-BLK1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.469		"	0.500		93.8	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

LCS (1930042-BS1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.74	0.0250	mg/kg	2.50		110	70-130			
Toluene	2.50	0.0250	"	2.50		100	70-130			
Ethylbenzene	2.56	0.0250	"	2.50		102	70-130			
p,m-Xylene	5.04	0.0500	"	5.00		101	70-130			
o-Xylene	2.50	0.0250	"	2.50		99.9	70-130			
Total Xylenes	7.54	0.0250	"	7.50		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.483		"	0.500		96.6	70-130			
Surrogate: Bromofluorobenzene	0.473		"	0.500		94.5	70-130			

Matrix Spike (1930042-MS1)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.71	0.0250	mg/kg	2.50	ND	108	48-131			
Toluene	2.44	0.0250	"	2.50	ND	97.4	48-130			
Ethylbenzene	2.51	0.0250	"	2.50	ND	101	45-135			
p,m-Xylene	4.99	0.0500	"	5.00	ND	99.9	43-135			
o-Xylene	2.47	0.0250	"	2.50	ND	98.8	43-135			
Total Xylenes	7.46	0.0250	"	7.50	ND	99.5	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.1	70-130			
Surrogate: Toluene-d8	0.474		"	0.500		94.8	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.3	70-130			

Matrix Spike Dup (1930042-MSD1)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.70	0.0250	mg/kg	2.50	ND	108	48-131	0.370	23	
Toluene	2.44	0.0250	"	2.50	ND	97.6	48-130	0.246	24	
Ethylbenzene	2.52	0.0250	"	2.50	ND	101	45-135	0.318	27	
p,m-Xylene	4.96	0.0500	"	5.00	ND	99.2	43-135	0.613	27	
o-Xylene	2.44	0.0250	"	2.50	ND	97.7	43-135	1.12	27	
Total Xylenes	7.41	0.0250	"	7.50	ND	98.7	43-135	0.780	27	
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.482		"	0.500		96.3	70-130			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1931002 - DRO Extraction EPA 3570
Blank (1931002-BLK1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	38.4		"	50.0		76.9	50-200			

LCS (1931002-BS1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500		95.7	38-132			
Surrogate: n-Nonane	38.8		"	50.0		77.5	50-200			

Matrix Spike (1931002-MS1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	793	25.0	mg/kg	500	259	107	38-132			
Surrogate: n-Nonane	45.4		"	50.0		90.9	50-200			

Matrix Spike Dup (1931002-MSD1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	770	25.0	mg/kg	500	259	102	38-132	2.99	20	
Surrogate: n-Nonane	44.8		"	50.0		89.6	50-200			

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BP America Production Co.	Project Name:	Florance L #19	Reported: 07/30/19 16:59
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Nonhalogenated Organics by 8015 - GRO - 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 1930042 - Purge and Trap EPA 5030A

Blank (1930042-BLK1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.469		"	0.500		93.8	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

LCS (1930042-BS2)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	48.6	20.0	mg/kg	50.0		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.4	70-130			
Surrogate: Toluene-d8	0.475		"	0.500		94.9	70-130			
Surrogate: Bromofluorobenzene	0.476		"	0.500		95.2	70-130			

Matrix Spike (1930042-MS2)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	49.1	20.0	mg/kg	50.0	ND	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		"	0.500		104	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		94.0	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		95.0	70-130			

Matrix Spike Dup (1930042-MSD2)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 2

Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0	ND	98.6	70-130	0.302	20	
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.475		"	0.500		94.9	70-130			
Surrogate: Bromofluorobenzene	0.469		"	0.500		93.8	70-130			

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BP America Production Co.	Project Name:	Florance L #19	Reported: 07/30/19 16:59
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

Anions by 300.0/9056A - 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 1931006 - Anion Extraction EPA 300.0/9056A

Blank (1931006-BLK1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1931006-BS1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	251	20.0	mg/kg	250		100	90-110			
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Matrix Spike (1931006-MS1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120			
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Matrix Spike Dup (1931006-MSD1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	262	20.0	mg/kg	250	ND	105	80-120	0.264	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/26/2019

Job Number: 03143-0424

Work Order: P907106

Project Name/Location: Florance L #19

Report Reviewed By:



Date: 7/30/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/30/19 16:59

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW West Wall Base @ 17'	P907106-01A	Soil	07/26/19	07/26/19	Glass Jar, 4 oz.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/30/19 16:59

Volatile Organic Compounds by 8260 - 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 1930042 - Purge and Trap EPA 5030A

Blank (1930042-BLK1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.469		"	0.500		93.8	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

LCS (1930042-BS1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.74	0.0250	mg/kg	2.50		110	70-130			
Toluene	2.50	0.0250	"	2.50		100	70-130			
Ethylbenzene	2.56	0.0250	"	2.50		102	70-130			
p,m-Xylene	5.04	0.0500	"	5.00		101	70-130			
o-Xylene	2.50	0.0250	"	2.50		99.9	70-130			
Total Xylenes	7.54	0.0250	"	7.50		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.500		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.483		"	0.500		96.6	70-130			
Surrogate: Bromofluorobenzene	0.473		"	0.500		94.5	70-130			

Matrix Spike (1930042-MS1)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.71	0.0250	mg/kg	2.50	ND	108	48-131			
Toluene	2.44	0.0250	"	2.50	ND	97.4	48-130			
Ethylbenzene	2.51	0.0250	"	2.50	ND	101	45-135			
p,m-Xylene	4.99	0.0500	"	5.00	ND	99.9	43-135			
o-Xylene	2.47	0.0250	"	2.50	ND	98.8	43-135			
Total Xylenes	7.46	0.0250	"	7.50	ND	99.5	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.496		"	0.500		99.1	70-130			
Surrogate: Toluene-d8	0.474		"	0.500		94.8	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.3	70-130			

Matrix Spike Dup (1930042-MSD1)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Benzene	2.70	0.0250	mg/kg	2.50	ND	108	48-131	0.370	23	
Toluene	2.44	0.0250	"	2.50	ND	97.6	48-130	0.246	24	
Ethylbenzene	2.52	0.0250	"	2.50	ND	101	45-135	0.318	27	
p,m-Xylene	4.96	0.0500	"	5.00	ND	99.2	43-135	0.613	27	
o-Xylene	2.44	0.0250	"	2.50	ND	97.7	43-135	1.12	27	
Total Xylenes	7.41	0.0250	"	7.50	ND	98.7	43-135	0.780	27	
Surrogate: 1,2-Dichloroethane-d4	0.515		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.472		"	0.500		94.4	70-130			
Surrogate: Bromofluorobenzene	0.482		"	0.500		96.3	70-130			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1931002 - DRO Extraction EPA 3570
Blank (1931002-BLK1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	38.4		"	50.0		76.9	50-200			

LCS (1931002-BS1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500		95.7	38-132			
Surrogate: n-Nonane	38.8		"	50.0		77.5	50-200			

Matrix Spike (1931002-MS1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	793	25.0	mg/kg	500	259	107	38-132			
Surrogate: n-Nonane	45.4		"	50.0		90.9	50-200			

Matrix Spike Dup (1931002-MSD1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 2

Diesel Range Organics (C10-C28)	770	25.0	mg/kg	500	259	102	38-132	2.99	20	
Surrogate: n-Nonane	44.8		"	50.0		89.6	50-200			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 07/30/19 16:59

Nonhalogenated Organics by 8015 - GRO - 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 1930042 - Purge and Trap EPA 5030A
Blank (1930042-BLK1)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.507		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.469		"	0.500		93.8	70-130			
Surrogate: Bromofluorobenzene	0.480		"	0.500		95.9	70-130			

LCS (1930042-BS2)

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	48.6	20.0	mg/kg	50.0		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.492		"	0.500		98.4	70-130			
Surrogate: Toluene-d8	0.475		"	0.500		94.9	70-130			
Surrogate: Bromofluorobenzene	0.476		"	0.500		95.2	70-130			

Matrix Spike (1930042-MS2)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 1

Gasoline Range Organics (C6-C10)	49.1	20.0	mg/kg	50.0	ND	98.3	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.519		"	0.500		104	70-130			
Surrogate: Toluene-d8	0.470		"	0.500		94.0	70-130			
Surrogate: Bromofluorobenzene	0.475		"	0.500		95.0	70-130			

Matrix Spike Dup (1930042-MSD2)

Source: P907101-01

Prepared: 07/26/19 1 Analyzed: 07/29/19 2

Gasoline Range Organics (C6-C10)	49.3	20.0	mg/kg	50.0	ND	98.6	70-130	0.302	20	
Surrogate: 1,2-Dichloroethane-d4	0.495		"	0.500		98.9	70-130			
Surrogate: Toluene-d8	0.475		"	0.500		94.9	70-130			
Surrogate: Bromofluorobenzene	0.469		"	0.500		93.8	70-130			

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BP America Production Co.	Project Name:	Florance L #19	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	07/30/19 16:59

Anions by 300.0/9056A - 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 1931006 - Anion Extraction EPA 300.0/9056A

Blank (1931006-BLK1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1931006-BS1)

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	251	20.0	mg/kg	250		100	90-110			
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Matrix Spike (1931006-MS1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	261	20.0	mg/kg	250	ND	104	80-120			
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Matrix Spike Dup (1931006-MSD1)

Source: P907105-01

Prepared: 07/29/19 0 Analyzed: 07/29/19 1

Chloride	262	20.0	mg/kg	250	ND	105	80-120	0.264	20	
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QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
07/30/19 16:59

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/30/2019

Job Number: 03143-0424

Work Order: P907122

Project Name/Location: Florance L #19

Report Reviewed By:



Date: 8/1/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
08/01/19 17:00

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-18	P907122-01A	Soil	07/30/19	07/30/19	Glass Jar, 4 oz.

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 08/01/19 17:00

Volatile Organic Compounds by 8260 - 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 1931023 - Purge and Trap EPA 5030A
Blank (1931023-BLK1)

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.450		"	0.500		89.9	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		98.9	70-130			

LCS (1931023-BS1)

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Benzene	2.65	0.0250	mg/kg	2.50		106	70-130			
Toluene	2.27	0.0250	"	2.50		90.8	70-130			
Ethylbenzene	2.29	0.0250	"	2.50		91.5	70-130			
p,m-Xylene	4.65	0.0500	"	5.00		93.1	70-130			
o-Xylene	2.28	0.0250	"	2.50		91.1	70-130			
Total Xylenes	6.93	0.0250	"	7.50		92.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.453		"	0.500		90.5	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.4	70-130			

Matrix Spike (1931023-MS1)

Source: P907100-01

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Benzene	2.52	0.0250	mg/kg	2.50	ND	101	48-131			
Toluene	2.15	0.0250	"	2.50	ND	86.1	48-130			
Ethylbenzene	2.15	0.0250	"	2.50	ND	86.0	45-135			
p,m-Xylene	4.41	0.0500	"	5.00	ND	88.3	43-135			
o-Xylene	2.17	0.0250	"	2.50	ND	86.8	43-135			
Total Xylenes	6.58	0.0250	"	7.50	ND	87.8	43-135			
Surrogate: 1,2-Dichloroethane-d4	0.517		"	0.500		103	70-130			
Surrogate: Toluene-d8	0.445		"	0.500		89.0	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.6	70-130			

Matrix Spike Dup (1931023-MSD1)

Source: P907100-01

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Benzene	2.62	0.0250	mg/kg	2.50	ND	105	48-131	4.13	23	
Toluene	2.29	0.0250	"	2.50	ND	91.7	48-130	6.39	24	
Ethylbenzene	2.30	0.0250	"	2.50	ND	92.0	45-135	6.70	27	
p,m-Xylene	4.69	0.0500	"	5.00	ND	93.8	43-135	6.12	27	
o-Xylene	2.33	0.0250	"	2.50	ND	93.0	43-135	6.89	27	
Total Xylenes	7.02	0.0250	"	7.50	ND	93.6	43-135	6.37	27	
Surrogate: 1,2-Dichloroethane-d4	0.503		"	0.500		101	70-130			
Surrogate: Toluene-d8	0.457		"	0.500		91.4	70-130			
Surrogate: Bromofluorobenzene	0.497		"	0.500		99.3	70-130			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 08/01/19 17:00

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1931022 - DRO Extraction EPA 3570
Blank (1931022-BLK1)

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	38.0		"	50.0		75.9	50-200			

LCS (1931022-BS1)

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Diesel Range Organics (C10-C28)	486	25.0	mg/kg	500		97.1	38-132			
Surrogate: n-Nonane	37.7		"	50.0		75.3	50-200			

Matrix Spike (1931022-MS1)

Source: P907118-21

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Diesel Range Organics (C10-C28)	512	25.0	mg/kg	500	40.3	94.3	38-132			
Surrogate: n-Nonane	36.9		"	50.0		73.8	50-200			

Matrix Spike Dup (1931022-MSD1)

Source: P907118-21

Prepared: 07/30/19 1 Analyzed: 07/31/19 2

Diesel Range Organics (C10-C28)	516	25.0	mg/kg	500	40.3	95.2	38-132	0.852	20	
Surrogate: n-Nonane	36.9		"	50.0		73.7	50-200			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 08/01/19 17:00

Nonhalogenated Organics by 8015 - GRO - 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 1931023 - Purge and Trap EPA 5030A
Blank (1931023-BLK1)

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1,2-Dichloroethane-d4	0.512		"	0.500		102	70-130			
Surrogate: Toluene-d8	0.450		"	0.500		89.9	70-130			
Surrogate: Bromofluorobenzene	0.495		"	0.500		98.9	70-130			

LCS (1931023-BS2)

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Gasoline Range Organics (C6-C10)	46.0	20.0	mg/kg	50.0		92.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.533		"	0.500		107	70-130			
Surrogate: Toluene-d8	0.448		"	0.500		89.6	70-130			
Surrogate: Bromofluorobenzene	0.492		"	0.500		98.4	70-130			

Matrix Spike (1931023-MS2)

Source: P907100-01

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Gasoline Range Organics (C6-C10)	45.4	20.0	mg/kg	50.0	ND	90.8	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.502		"	0.500		100	70-130			
Surrogate: Toluene-d8	0.456		"	0.500		91.2	70-130			
Surrogate: Bromofluorobenzene	0.493		"	0.500		98.5	70-130			

Matrix Spike Dup (1931023-MSD2)

Source: P907100-01

Prepared: 07/30/19 1 Analyzed: 08/01/19 1

Gasoline Range Organics (C6-C10)	43.6	20.0	mg/kg	50.0	ND	87.3	70-130	3.94	20	
Surrogate: 1,2-Dichloroethane-d4	0.498		"	0.500		99.5	70-130			
Surrogate: Toluene-d8	0.441		"	0.500		88.1	70-130			
Surrogate: Bromofluorobenzene	0.494		"	0.500		98.7	70-130			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 08/01/19 17:00

Anions by 300.0/9056A - 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 1931025 - Anion Extraction EPA 300.0/9056A
Blank (1931025-BLK1)

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Chloride	ND	20.0	mg/kg
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LCS (1931025-BS1)

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Chloride	260	20.0	mg/kg	250	104	90-110
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Matrix Spike (1931025-MS1)
Source: P907118-21

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Chloride	286	20.0	mg/kg	250	23.9	105	80-120
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Matrix Spike Dup (1931025-MSD1)
Source: P907118-21

Prepared: 07/30/19 1 Analyzed: 07/31/19 1

Chloride	281	20.0	mg/kg	250	23.9	103	80-120	2.07	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
08/01/19 17:00

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
RPD Relative Percent Difference
** Methods marked with ** are non-accredited methods.

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Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 10/22/2019

Job Number: 03143-0424

Work Order: P910137

Project Name/Location: Florance L #19

Report Reviewed By:



Date: 10/29/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
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Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
10/29/19 14:32

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-VZ #1	P910137-01A	Soil	10/22/19	10/22/19	Glass Jar, 4 oz.
TSP-VZ #2	P910137-02A	Soil	10/22/19	10/22/19	Glass Jar, 4 oz.

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BP America Production Co.	Project Name: Florance L #19	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	10/29/19 14:32

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 1943014 - Purge and Trap EPA 5030A

Blank (1943014-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							

Surrogate: 4-Bromochlorobenzene-PID	8.39		"	8.00		105	50-150
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LCS (1943014-BS1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.77	0.0250	mg/kg	5.00		95.4	70-130
Toluene	4.91	0.0250	"	5.00		98.3	70-130
Ethylbenzene	4.85	0.0250	"	5.00		97.1	70-130
p,m-Xylene	9.66	0.0500	"	10.0		96.6	70-130
o-Xylene	4.88	0.0250	"	5.00		97.5	70-130
Total Xylenes	14.5	0.0250	"	15.0		96.9	70-130

Surrogate: 4-Bromochlorobenzene-PID	8.51		"	8.00		106	50-150
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Matrix Spike (1943014-MS1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.73	0.0250	mg/kg	5.00	ND	94.7	54.3-133
Toluene	4.88	0.0250	"	5.00	ND	97.6	61.4-130
Ethylbenzene	4.81	0.0250	"	5.00	ND	96.3	61.4-133
p,m-Xylene	9.57	0.0500	"	10.0	ND	95.7	63.3-131
o-Xylene	4.82	0.0250	"	5.00	ND	96.5	63.3-131
Total Xylenes	14.4	0.0250	"	15.0	ND	96.0	63.3-131

Surrogate: 4-Bromochlorobenzene-PID	8.38		"	8.00		105	50-150
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Matrix Spike Dup (1943014-MSD1)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Benzene	4.76	0.0250	mg/kg	5.00	ND	95.3	54.3-133	0.604	20
Toluene	4.89	0.0250	"	5.00	ND	97.7	61.4-130	0.153	20
Ethylbenzene	4.85	0.0250	"	5.00	ND	97.0	61.4-133	0.755	20
p,m-Xylene	9.64	0.0500	"	10.0	ND	96.4	63.3-131	0.779	20
o-Xylene	4.85	0.0250	"	5.00	ND	97.0	63.3-131	0.564	20
Total Xylenes	14.5	0.0250	"	15.0	ND	96.6	63.3-131	0.707	20

Surrogate: 4-Bromochlorobenzene-PID	8.40		"	8.00		105	50-150
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BP America Production Co.
 PO Box 22024
 Tulsa OK, 74121-2024

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 10/29/19 14:32

Nonhalogenated Organics by 8015 - DRO/ORO - 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 1943026 - DRO Extraction EPA 3570
Blank (1943026-BLK1)

Prepared: 10/23/19 1 Analyzed: 10/24/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	66.4		"	50.0		133	50-200			

LCS (1943026-BS1)

Prepared: 10/23/19 1 Analyzed: 10/24/19 1

Diesel Range Organics (C10-C28)	503	25.0	mg/kg	500		101	38-132			
Surrogate: n-Nonane	55.4		"	50.0		111	50-200			

Matrix Spike (1943026-MS1)

Source: P910146-01

Prepared: 10/23/19 1 Analyzed: 10/24/19 2

Diesel Range Organics (C10-C28)	5680	250	mg/kg	500	5810	NR	38-132			M2
Surrogate: n-Nonane	74.0		"	50.0		148	50-200			

Matrix Spike Dup (1943026-MSD1)

Source: P910146-01

Prepared: 10/23/19 1 Analyzed: 10/25/19 0

Diesel Range Organics (C10-C28)	6680	250	mg/kg	500	5810	175	38-132	16.2	20	M2
Surrogate: n-Nonane	76.5		"	50.0		153	50-200			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 10/29/19 14:32

Nonhalogenated Organics by 8015 - GRO - 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 1943014 - Purge and Trap EPA 5030A
Blank (1943014-BLK1)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.24		"	8.00		90.5	50-150			

LCS (1943014-BS2)

Prepared: 10/22/19 1 Analyzed: 10/23/19 0

Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0		92.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.38		"	8.00		92.2	50-150			

Matrix Spike (1943014-MS2)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 1

Gasoline Range Organics (C6-C10)	45.6	20.0	mg/kg	50.0	ND	91.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.31		"	8.00		91.4	50-150			

Matrix Spike Dup (1943014-MSD2)

Source: P910134-21

Prepared: 10/22/19 1 Analyzed: 10/23/19 1

Gasoline Range Organics (C6-C10)	46.1	20.0	mg/kg	50.0	ND	92.2	70-130	1.18	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.33		"	8.00		91.6	50-150			

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

 Project Name: Florance L #19
 Project Number: 03143-0424
 Project Manager: Steve Moskal

Reported:
 10/29/19 14:32

Anions by 300.0/9056A - 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 1943020 - Anion Extraction EPA 300.0/9056A
Blank (1943020-BLK1)

Prepared & Analyzed: 10/23/19 1

Chloride	ND	20.0	mg/kg
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LCS (1943020-BS1)

Prepared & Analyzed: 10/23/19 1

Chloride	257	20.0	mg/kg	250	103	90-110
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Matrix Spike (1943020-MS1)
Source: P910136-01

Prepared & Analyzed: 10/23/19 1

Chloride	281	20.0	mg/kg	250	26.0	102	80-120
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Matrix Spike Dup (1943020-MSD1)
Source: P910136-01

Prepared & Analyzed: 10/23/19 1

Chloride	276	20.0	mg/kg	250	26.0	100	80-120	1.62	20
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QC Summary Report
Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

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

Project Name: Florance L #19
Project Number: 03143-0424
Project Manager: Steve Moskal

Reported:
10/29/19 14:32

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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