

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	NVF1836035634
District RP	
Facility ID	
Application ID	

## Release Notification

**Responsible Party**

Responsible Party: 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)	
Contact mailing address: 1199 Main Street, Suite 101, Durango CO, 81301	NVF1836035634	

**Location of Release Source**

Latitude: 36.733760° Longitude: -107.711131°

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Day B 002B	Site Type: Natural Gas Production Well Pad
Date Release Discovered: December 13, 2018	API#: 30-045-25519

Unit Letter	Section	Township	Range	County
P	7	T29N	R08W	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)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls):	Volume Recovered (bbls):
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): <u>Est 7 bbls</u>	Volume Recovered (bbls): <u>0 bbls</u>
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

## Cause of Release:

Impacts were identified at the location on December 13, 2018 during a site inspection. A small stained area of soil was noted, but appeared to be isolated. The source was unknown. Upon further investigation, it was discovered a flow line from the separator had to the BGT had broke. On December 19, 2018, it was confirmed that the release had migrated at least 12 vertical feet from the surface. Full delineation was performed via excavation and onsite treatment of soil via soil shredding.

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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> 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: <u>December 19, 2018</u> email: <u>steven.moskal@bpx.com</u> Telephone: <u>(505) 330-9179</u>
<b><u>OCD Only</u></b> 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?	>100 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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.

<p><b><u>Characterization Report Checklist:</u> Each of the following items must be included in the report.</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li><input type="checkbox"/> Field data</li> <li><input type="checkbox"/> Data table of soil contaminant concentration data</li> <li><input type="checkbox"/> Depth to water determination</li> <li><input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li><input type="checkbox"/> Boring or excavation logs</li> <li><input type="checkbox"/> Photographs including date and GIS information</li> <li><input type="checkbox"/> Topographic/Aerial maps</li> <li><input type="checkbox"/> Laboratory data including chain of custody</li> </ul>
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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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Printed Name: Steve Moskal Title: Environmental Coordinator

Signature: \_\_\_\_\_ Date: December 19, 2018

email: steven.moskal@bpx.com Telephone: (505) 330-9179

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Incident ID	
District RP	
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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: \_\_\_\_\_

Incident ID	
District RP	
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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: October 21, 2019

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

**OCD Only**

Received by: OCD Date: 10/21/19

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: 12/11/19

Printed Name: Cory Title: Environmental Specialist

# BPX Energy Inc.

(Formerly BP America Production Company)

## Day B 002B

API #: 30-045-25519

Incident #: NVF1836035634

(P) Sec 7 – T29N – R08W, San Juan County, New Mexico

### Summary Record of Impacted Soils Remediation

- December 13, 2018 During a site inspection, a ground surface release was observed near the on-site separator and compressor units. A release investigation was initiated with the advancement of five (5) test holes using manual hand equipment within the stained perimeter. A five (5) point composite sample (**5pcs**) was collected at approximately two (2) feet (**ft.**) below grade (**b.g.**).
- December 17, 2018 5pcs lab results were as follows;  
benzene = 4.950 mg/Kg; benzene, toluene, ethylbenzene, and total xylenes (**BTEX**) = 290 mg/Kg; total TPH = 3,537 mg/Kg; chloride = <20 mg/Kg. Official date of impact discovery.  
(see Release Investigation Section).
- December 19, 2018 BPX submitted Form C-141 Initial Report to the New Mexico Oil Conservation Division (**NMOCD**). NMOCD received on 12/26/2018.
- January 2, 2019 BPX submitted Form C-141 Subsequent Report containing Site Assessment/Characterization and Remediation Plan (**RP**) to NMOCD. NMOCD received on the same day and approved RP on 1/11/2019.
- June 10, 2019 Initiated remediation via excavation and soil shredding.
- June 12, 2019 Notification of initial closure sampling schedule submitted to NMOCD and BLM (see June Email Correspondence within Site Remediation Section).
- June 14, 2019 Received closure soil sample laboratory report. Summary table of results listed on following pages.
- June 21, 2019 Received final treated soil sample laboratory report. Summary table of results listed on following pages.
- June 28, 2019 Completed excavation backfilling.
- July 22, 2019 Notification of vadose zone sampling schedule submitted to NMOCD and BLM (see July Email Correspondence within Vadose Zone Confirmation Section).
- July 24, 2019 Vadose zone sampling plan submitted to NMOCD via email. NMOCD approved on same day (see July Email Correspondence within Vadose Zone Confirmation Section).
- July 26, 2019 Conducted initial vadose zone sampling of treated stockpile areas.
- September 10, 2019 Conducted subsequent vadose zone sampling of treated stockpile area designated as TSP-VZ #3. Area was excavated approximately one foot in depth, treated with hydrogen peroxide, and placed back in its original deposition. Aerial map and photos of sample locations included.
- September 17, 2019 Received 09/10/2019 vadose zone subsequent soil sample final laboratory report. Summary table of results listed on following pages.

# BPX Energy Inc.

(Formerly BP America Production Company)

## Day B 002B - API: 30-045-25519

(P) Sec 7 – T29N – R08W, San Juan County, New Mexico

### Excavation Closure Sampling Test Results

June 13, 2019

Excavation Size: 15' x 30' x 29' Deep

Sample ID	Time	# of Sampling Points	Sampling Depths (feet)	Field OVM (ppm)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
South Base	1333	5	29	2,151	ND	ND	ND	ND	ND	ND	119
North Base	1343	5	29	510	ND	ND	ND	25.7	ND	25.7	ND
West Wall (South Half)	1351	5	-	3.3	ND	ND	ND	ND	ND	ND	ND
West Wall (North Half)	1357	5	-	3.9	ND	ND	ND	ND	ND	ND	ND
East Wall (South Half)	1407	5	-	5.9	ND	ND	ND	ND	ND	ND	176
East Wall (North Half)	1413	5	-	5.5	ND	ND	ND	ND	ND	ND	ND
North Wall	1418	5	-	3.8	ND	ND	ND	ND	ND	ND	ND
South Wall	1425	5	-	2.3	ND	ND	ND	ND	ND	ND	94.3
<b>NMOCD Site Closure Standards -</b>					<b>10</b>	<b>50</b>				<b>100</b>	<b>20,000</b>

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, (-) – Varying depths below grade, ND – Not detected at laboratory reporting limit.

# BPX Energy Inc.

(Formerly BP America Production Company)

## Day B 002B - API: 30-045-25519

(P) Sec 7 – T29N – R08W, San Juan County, New Mexico

### Treated Soil Pile Test Results

June 13 through June 21, 2019

Sample ID	Stockpile Volume (c.y.)	Date Created	Date Sampled	Field OVM (ppm)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
TSP-1	100	6/13/19	6/14/19	88	ND	ND	ND	29.5	ND	29.5	21.7
TSP-2	100	6/13/19	6/14/19	96	ND	0.0272	ND	29.1	ND	29.1	23.6
TSP-3	100	6/17/19	6/17/19	122	ND	0.252	ND	ND	ND	ND	23.2
TSP-4	100	6/17/19	6/17/19	130	ND	0.453	ND	ND	ND	ND	21.1
TSP-5	100	6/17/19	6/17/19	107	ND	1.238	22.9	ND	ND	22.9	ND
TSP-6	100	6/17/19	6/17/19	158	ND	0.278	ND	34.9	ND	34.9	ND
TSP-7	100	6/17/19	6/17/19	125	ND	0.230	ND	28.6	ND	28.6	ND
TSP-8	100	6/17/19	6/17/19	114	ND	0.236	ND	28.2	ND	28.2	ND
TSP-9	100	6/17/19	6/18/19	46	ND	0.0950	ND	25.3	ND	25.3	ND
TSP-10	100	6/17/19	6/18/19	81	ND	0.168	ND	27.4	ND	27.4	ND
TSP-11	500	6/18/19	6/18/19	56	ND	ND	ND	ND	ND	ND	ND
TSP-12	500	6/18/19	6/19/19	NA	ND	0.9975	24.5	79.4	ND	103.9	ND
TSP-12R	500	6/18/19	6/24/19	NA	ND	0.325	ND	33.4	ND	33.4	ND
TSP-13	500	6/18/19	6/19/19	NA	ND	0.223	ND	46.5	ND	46.5	ND
<b>NMOCD Site Closure Standards -</b>					<b>10</b>	<b>50</b>				<b>100</b>	<b>20,000</b>

c.y. – cubic yards, 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.

# BPX Energy Inc.

(Formerly BP America Production Company)

## Day B 002B - API: 30-045-25519

(P) Sec 7 – T29N – R08W, San Juan County, New Mexico

### Vadose Zone Closure Sampling Test Results

July 25, 2019 & September 10, 2019 [TSP-VZ #3 (2)]

*(see attached aerial map of areas sampled)*

Sample ID	Time	6-pt Comp. Depths (inches)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	TPH GRO (mg/Kg)	TPH DRO (mg/Kg)	TPH MRO (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
TSP – VZ #1	0830	4 - 8	ND	ND	ND	ND	ND	ND	ND
TSP – VZ #2	0900	4 - 8	ND	ND	ND	ND	ND	ND	ND
TSP – VZ #3	0948	4 - 8	ND	ND	ND	272	493	765	ND
TSP – VZ #3 (2)	0935	4 - 8	ND	ND	ND	ND	ND	ND	ND
TSP – VZ #4	1008	4 - 8	ND	ND	ND	ND	ND	ND	ND
<b>NMOCD Site Closure Standards -</b>			<b>10</b>	<b>50</b>				<b>100</b>	<b>20,000</b>

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**

CLIENT: \_\_\_\_\_

**BLAGG ENGINEERING, INC.**  
 P.O. BOX 87, BLOOMFIELD, NM 87413  
 (505) 632-1199

API #: 30-045-25519

TANK ID (if applicable): \_\_\_\_\_

# FIELD REPORT:

(circle one): BGT CONFIRMATION  RELEASE INVESTIGATION  OTHER: \_\_\_\_\_

PAGE # 1 of 1

## SITE INFORMATION:

QUAD/UNIT: P SEC. 7 TWP. 29N R1G. 8W PM. NM CNTY. ST. NM  
 1/4-1/4 FOOTAGE: 670 FSL x 1300 FEL  
 LEASE # NMSE 078414 LEASE TYPE: FEDERAL / STATE / FEE / INDIAN  
 PROD. FORMATION: \_\_\_\_\_ CONTRACTOR: High Detero

DATE STARTED: 12/13/2018

DATE FINISHED: 12/13/2018

ENVIRONMENTAL SPECIALIST(S): JCB

## REFERENCE POINT:

1) WELL HEAD (WH) GPS COORD: 36° 44' 2.26" x 107° 42' 39.45" GL ELEV: 6372  
 2) GPS COORD: \_\_\_\_\_ DISTANCE/BEARING FROM WH: \_\_\_\_\_  
 3) GPS COORD: \_\_\_\_\_ DISTANCE/BEARING FROM WH: \_\_\_\_\_  
 4) GPS COORD: \_\_\_\_\_ DISTANCE/BEARING FROM WH: \_\_\_\_\_

## SAMPLING DATA:

Q/WN OF CUSTODY RECORD(S) # OR LAB USED: ENVINTECH

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	Q/WN READING (ppm)
1) SAMPLE ID: 022'	12/13/18	0840	LAB ANALYSIS	2848
2) SAMPLE ID: 022'		0910	LAB ANALYSIS	2021
3) SAMPLE ID: 022'		0912	LAB ANALYSIS	181
4) SAMPLE ID: 022'		0916	LAB ANALYSIS	6.9
				12.5

S-P = Composite @ 2'

## SOIL DESCRIPTION:

SOIL COLOR: TAN SOIL TYPE: SAND (SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER: \_\_\_\_\_  
 COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE  
 PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC  
 CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE  
 DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD  
 MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED  
 HC ODOR DETECTED: (YES) / NO EXPLANATION: Moderate / Strong  
 SAMPLE TYPE: GRAB / COMPOSITE # OF PTS: 5  
 ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION: \_\_\_\_\_  
 DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION: oil color

## SITE OBSERVATIONS:

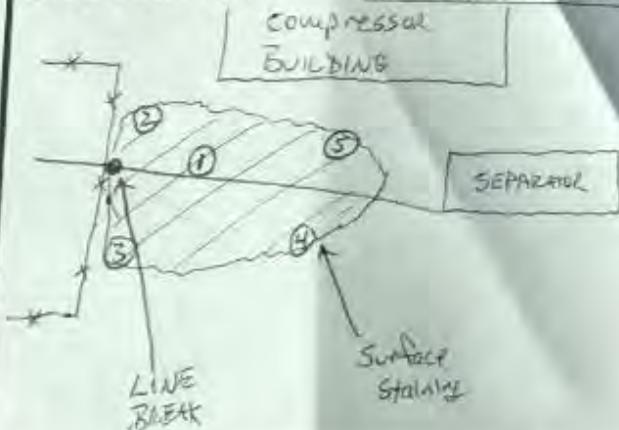
LOST INTEGRITY OF EQUIPMENT: (YES) / NO EXPLANATION: No Line Break @ Hammer Worn  
 APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: (YES) / NO EXPLANATION: oily surface  
 EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION: \_\_\_\_\_  
 OTHER: \_\_\_\_\_

SOIL IMPACT DIMENSION ESTIMATION: 13 ft x 10 ft x 2 ft EXCAVATION ESTIMATION (Cubic Yards): \_\_\_\_\_  
 DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE: \_\_\_\_\_ NEAREST SURFACE WATER: < 300' NMOOD TPH CLOSURE STD: 105

## SITE SKETCH

BGT Located: off / on site

PLOT PLAN circle: attached



Q/WN CALIB READ = 100.2 (30) FE-482  
 Q/WN CALIB GAS = 100 (30) FE-482  
 TIME 0810 DATE 12/13/18

## MISCELLANEOUS NOTES

WO: \_\_\_\_\_  
 PO #: \_\_\_\_\_  
 PK: \_\_\_\_\_  
 PJ #: \_\_\_\_\_  
 Permit data(s): \_\_\_\_\_  
 OGD Appr. date(s): \_\_\_\_\_  
 Q/WN: \_\_\_\_\_  
 Q/WN: \_\_\_\_\_  
 Q/WN: \_\_\_\_\_  
 Q/WN: \_\_\_\_\_

NOTES: BGT = BELOW-GRADE TANK; ED = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; TH = TEST HOLE -- APPROX; WH = WELL HEAD  
 TB = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW = SINGLE WALL; DW = DOUBLE WALL; SB = SINGLE BOTTOM; DB = DOUBLE BOTTOM

ONSITE: 12/13/2018

NOTES:

revised: 11/26/13

BEI1005E-6 SKF

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 12/17/18 16:41
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**Release 5-Pt @2'  
P812028-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	4950	100	ug/kg	1	1850019	12/13/18	12/13/18	EPA 8021B	
Toluene	66400	1000	ug/kg	10	1850019	12/13/18	12/13/18	EPA 8021B	
Ethylbenzene	16700	100	ug/kg	1	1850019	12/13/18	12/13/18	EPA 8021B	
p,m-Xylene	162000	2000	ug/kg	10	1850019	12/13/18	12/13/18	EPA 8021B	
o-Xylene	39900	1000	ug/kg	10	1850019	12/13/18	12/13/18	EPA 8021B	
Total Xylenes	202000	1000	ug/kg	10	1850019	12/13/18	12/13/18	EPA 8021B	
Total BTEX	290000	1000	ug/kg	10	1850019	12/13/18	12/13/18	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		91.2 %		50-150	1850019	12/13/18	12/13/18	EPA 8021B	
<b>Nonhalogenated Organics by 8015</b>									
Gasoline Range Organics (C6-C10)	1980	200	mg/kg	10	1850019	12/13/18	12/13/18	EPA 8015D	
Diesel Range Organics (C10-C28)	1350	25.0	mg/kg	1	1850023	12/13/18	12/14/18	EPA 8015D	
Oil Range Organics (C28-C40+)	207	50.0	mg/kg	1	1850023	12/13/18	12/14/18	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		116 %		50-150	1850019	12/13/18	12/13/18	EPA 8015D	
<i>Surrogate: n-Nonane</i>		542 %		50-200	1850023	12/13/18	12/14/18	EPA 8015D	Surr2
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1850024	12/14/18	12/14/18	EPA 300.0/9056A	

Benzene = 4.950 mg/Kg (Closure Standard = 10 mg/Kg)

Total BTEX = 290 mg/Kg (Closure Standard = 50 mg/Kg)

TOTAL TPH (GRO + DRO + ORO) = 3,537 mg/Kg (Closure Standard = 100 mg/Kg)

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Client: BPX ENERGY  
 Project: DAY B 2B  
 Project Manager: STEVE MOSKAL  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: 505-330-9179  
 Email: steven.moskal@BPX.com

**Report Attention**  
 Report due by: DEC 14, 2018  
 Attention: STEVE MOSKAL / JEFF BLAGG  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: 505-320-1183  
 Email: jeffcblogg@aol.com

**Lab Use Only**  
 Lab WO# P 812024 Job Number 03143-0424  
 TAT 1D 3D    
**EPA Program**  
 RCRA  CWA  SDWA

**Analysis and Method**  
 DRO/ORO by 8015  GRO/DRO by 8015  BTEX by 8021  VOC by 8260  Metals 6010  Chloride 300.0  TPH 418.1   
 State: NM  CO  UT

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
0916	12/13/2018	SOIL	1	RELEASE 5-pt @ 2'	1	X	X	X			X		

**Additional Instructions:** vis 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 Blagg

Relinquished by: (Signature) Jeff Blagg Date 12/13/2018 Time 1028  
 Received by: (Signature) [Signature] Date 12/13/18 Time 1028  
 Relinquished by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_  
 Received by: (Signature) \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

**Lab Use Only**  
 Received on ice:  Y /  N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4.0

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.



Page 9 of 9

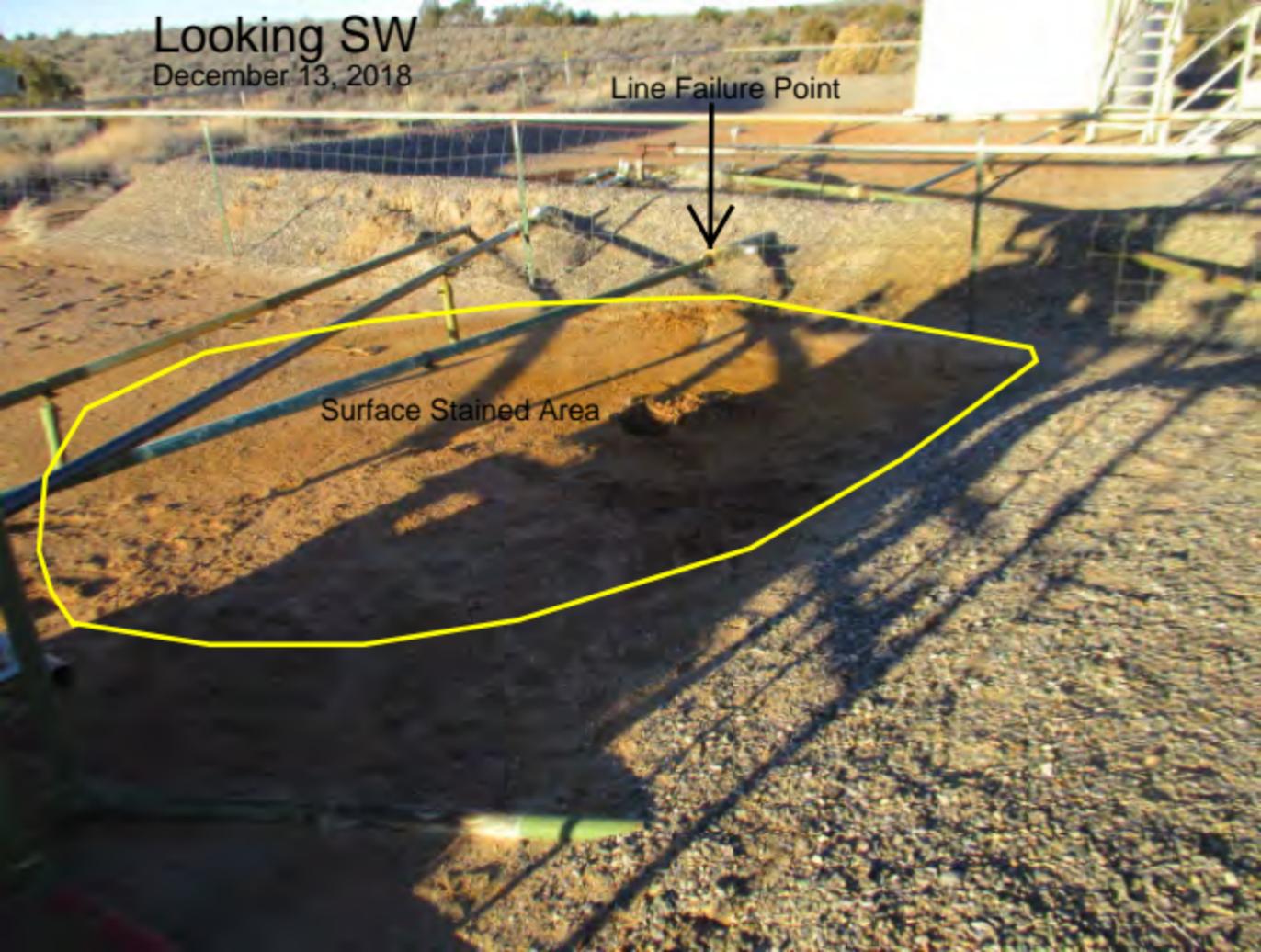
Looking SW

December 13, 2018

Line Failure Point



Surface Stained Area



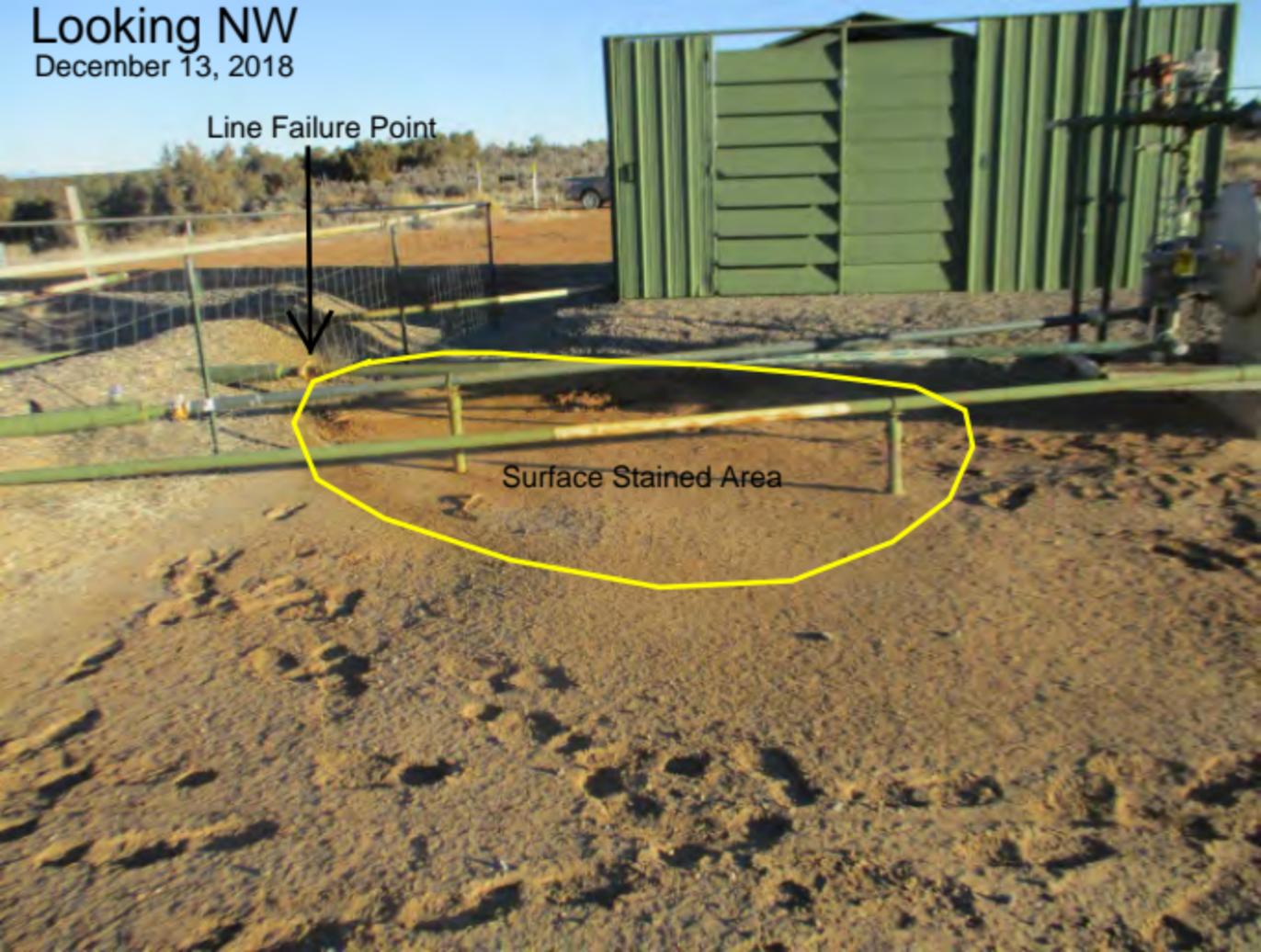
Looking NW

December 13, 2018

Line Failure Point



Surface Stained Area



**SITE**

**REMEDICATION**

# June 2019 Email Correspondence

BPX - Day B 2B - Closure Sampling Rescheduled to Wednesday, June 12

---

From: jeffcblagg@aol.com (jeffcblagg@aol.com)

To: cory.smith@state.nm.us; aadeloye@blm.gov

Cc: steven.moskal@bpx.com; DON.BULLER@BPX.COM; blagg\_njv@yahoo.com; dustindmace@gmail.com

Date: Tuesday, June 11, 2019, 06:58 AM MDT

---

Emmanuel and Cory:

The remedial excavation at the BPX operated Day B 2B is ongoing but will not be ready for closure sampling today. Presently we would like to re-schedule for tomorrow at 1:30 pm. Please advise if this will not work into your schedules.

Thanks,  
Jeff Blagg  
Blagg Engineering, Inc.  
jeffcblagg@aol.com  
(505)320-1183



Day B 2B - June 10\_2019.pdf  
760.9kB

## Day B 2B - Closure Sampling Rescheduled to Thursday 6/13

---

From: Steven Moskal (Steven.Moskal@BPX.COM)

To: cory.smith@state.nm.us; aadeloye@blm.gov

Cc: DON.BULLER@BPX.COM; blagg\_njv@yahoo.com; dustindmace@gmail.com; jeffcblagg@aol.com

Date: Wednesday, June 12, 2019, 09:44 AM MDT

---

Cory and Emmanuel,

Due to the depth of the excavation exceeding 20', BP has obtained an engineer to design a safe excavation plan. This has delayed work and subsequently will delay sampling of the excavation until Thursday, 6/13, at 2:00 PM.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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## Treated Stockpile Sampling 6/14/19

---

From: Steven Moskal (Steven.Moskal@BPX.COM)

To: cory.smith@state.nm.us; aadeloye@blm.gov

Cc: DON.BULLER@BPX.COM; blagg\_njv@yahoo.com; dustindmace@gmail.com; jeffcblagg@aol.com

Date: Thursday, June 13, 2019, 03:06 PM MDT

---

The samples were collected from the excavation this afternoon, with results expected tomorrow. BP will plan to sample the treated stockpiles tomorrow afternoon, at 1:00. Additional stockpile sampling will be necessary on Monday and Likely Tuesday of next week.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

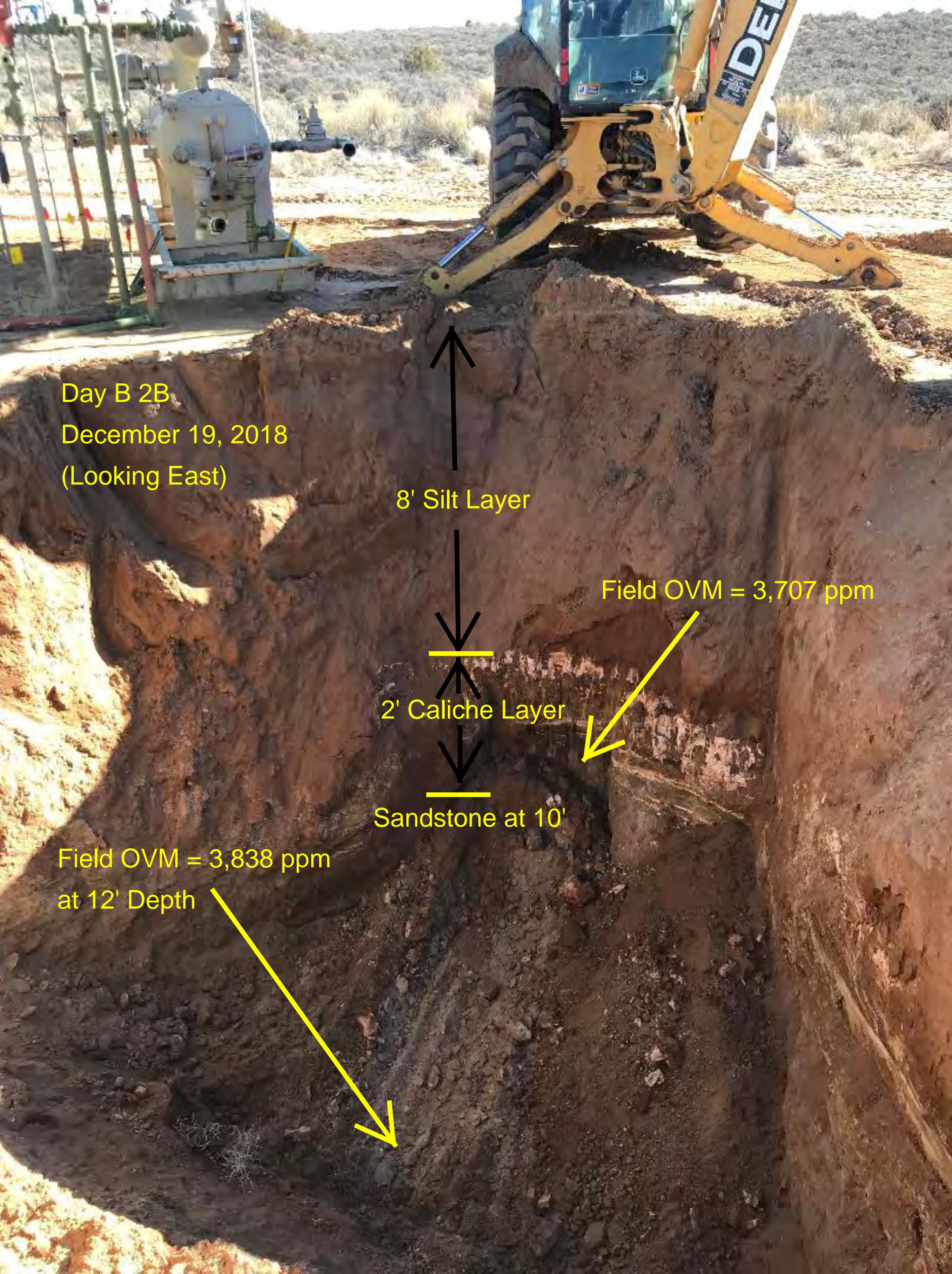
1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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Day B 2B  
December 19, 2018  
(Looking East)

8' Silt Layer

Field OVM = 3,707 ppm

2' Caliche Layer

Sandstone at 10'

Field OVM = 3,838 ppm  
at 12' Depth



Day B 2B  
December 19, 2018  
(Looking SW)

All Sidewalls Clean 0'-8'  
(Excavation approximately  
20' x 15' x 12' Deep)

All Sidewalls and Base  
Impacted Below 8'

Day B 2B  
June 13, 2019

Remedial Excavation

Day B 2B







North Sidewall

X

X

X

X

X

South Sidewall

X

X

X

X

X

X

X

East Sidewall (North Half)

X

X

X

X

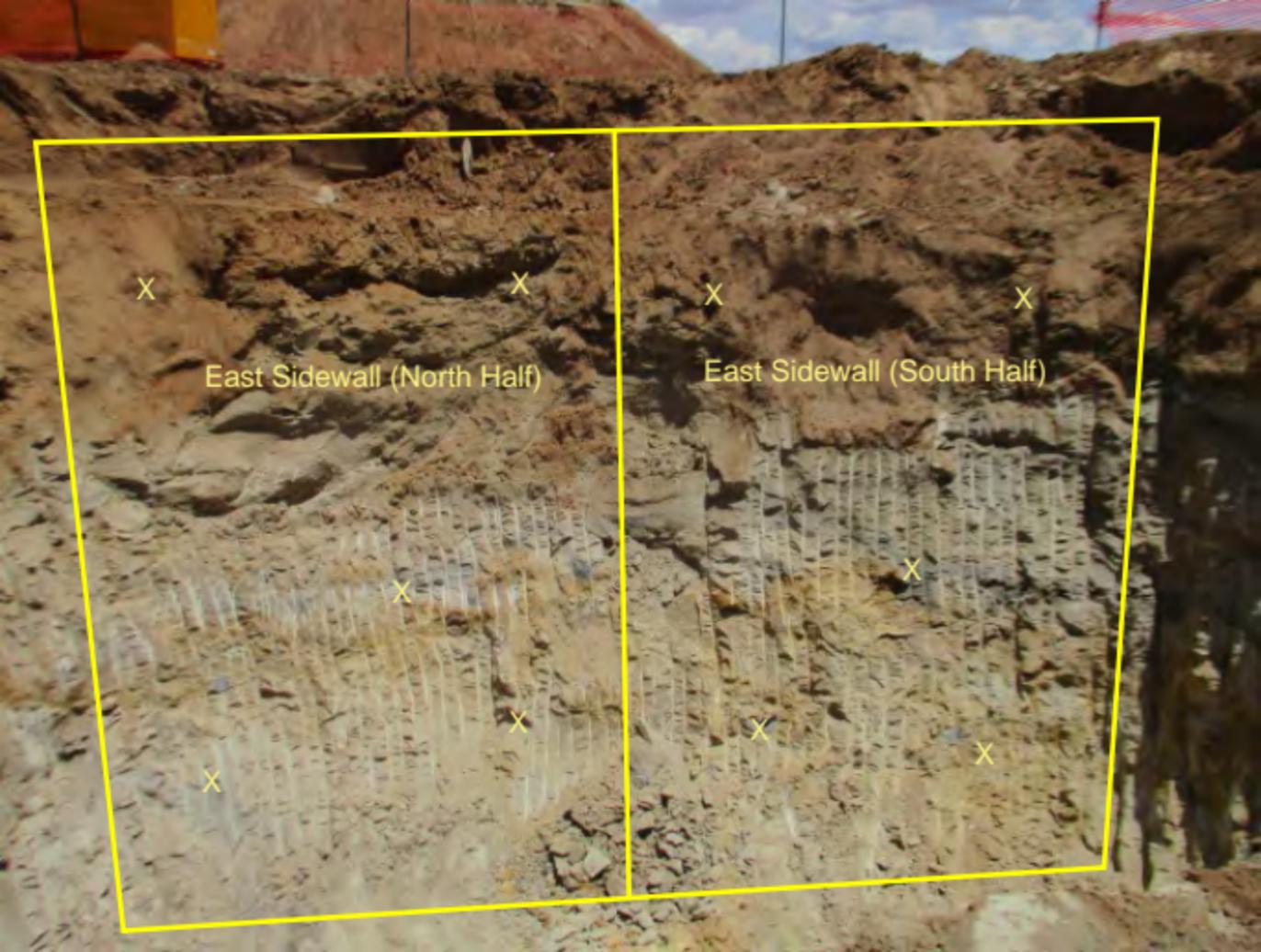
X

East Sidewall (South Half)

X

X

X



West Sidewall (S. Half)



West Sidewall (N. Half)



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

Project Name: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/14/19 13:33

**South Base @ 29'  
P906061-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.3 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.6 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		99.7 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	119	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**North Base @ 29'  
P906061-02 (Solid)**

Analyte	Result	Reporting							
		Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	25.7	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.7 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**West Wall (South Half)  
P906061-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.3 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**West Wall (North Half)  
P906061-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.6 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**East Wall (South Half)  
P906061-05 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.8 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.4 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	176	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**East Wall (North Half)  
P906061-06 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.1 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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**North Wall  
P906061-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		98.8 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		100 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	

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**South Wall  
P906061-08 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.4 %		50-150	1924042	06/13/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		100 %		50-200	1924047	06/13/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924042	06/13/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		102 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	94.3	20.0	mg/kg	1	1924046	06/13/19	06/14/19	EPA 300.0/9056A	
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**Project Information**

**Chain of Custody**

Client: BPX Energy  
 Project: DAY B Z.B  
 Project Manager: Steve Moskai  
 Address:  
 City, State, Zip  
 Phone:  
 Email:

**Report Attention**  
 Report due by: 6/14/2019  
 Attention: Steve Moskai / Jeff Blagg  
 Address:  
 City, State, Zip  
 Phone:  
 Email:

**Lab Use Only**  
 Lab WO# P 906061 Job Number 03143-0424  
 TAT 1D  3D   
 EPA Program RCRA  CWA  SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method							State				Remarks		
						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			
1333	6/13/2019	SOIL	1	SOUTH BASE @ 29'	1	X	X	X			X								
1343			1	NORTH BASE @ 29'	2	X	X	X			X								
1351			1	West Wall (SOUTH HALF)	3	X	X	X			X								
1357			1	West Wall (NORTH HALF)	4	X	X	X			X								
1407			1	EAST Wall (SOUTH HALF)	5	X	X	X			X								
1413			1	EAST Wall (NORTH HALF)	6	X	X	X			X								
1418			1	NORTH WALL	7	X	X	X			X								
1425			1	SOUTH WALL	8	X	X	X			X								

**Additional Instructions:** Bill BPX  
 contact: Steve Moskai P.O. Being Generated

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 Blagg  
 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>6/13/2019</u>	Time <u>16:02</u>	Received by: (Signature) <u>Ramiro Lopez</u>	Date <u>6/13/19</u>	Time <u>16:03</u>	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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.

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5796 US Highway 64, Farmington, NM 87401  
 Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301

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

envirotech inc.com  
 laboratory@envirotech-inc.com

**TREATED SOIL**

**REMEDICATION**

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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**TSP-1**  
**P906065-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %		50-150	1924053	06/14/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	29.5	25.0	mg/kg	1	1924047	06/14/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/14/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		97.8 %		50-200	1924047	06/14/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		105 %		50-150	1924053	06/14/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	21.7	20.0	mg/kg	1	1924054	06/14/19	06/15/19	EPA 300.0/9056A	
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**TSP-2**  
**P906065-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
o-Xylene	<b>0.0272</b>	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Total Xylenes	<b>0.0272</b>	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.6 %		50-150	1924053	06/14/19	06/14/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>29.1</b>	25.0	mg/kg	1	1924047	06/14/19	06/14/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1924047	06/14/19	06/14/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1924047	06/14/19	06/14/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1924053	06/14/19	06/14/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>23.6</b>	20.0	mg/kg	1	1924054	06/14/19	06/15/19	EPA 300.0/9056A	
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**TSP-3**  
**P906069-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.170</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0570</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.227</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>97.4 %</i>		<i>50-150</i>	<i>1925004</i>	<i>06/17/19</i>	<i>06/19/19</i>	<i>EPA 8021B</i>	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>101 %</i>		<i>50-200</i>	<i>1925007</i>	<i>06/18/19</i>	<i>06/18/19</i>	<i>EPA 8015D</i>	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>104 %</i>		<i>50-150</i>	<i>1925004</i>	<i>06/17/19</i>	<i>06/19/19</i>	<i>EPA 8015D</i>	

**Anions by 300.0/9056A**

Chloride	<b>23.2</b>	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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**TSP-4**  
**P906069-02 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.375</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.101</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.476</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.8 %		50-150	1925004	06/17/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		101 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		109 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	<b>21.1</b>	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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**TSP-5**  
**P906069-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	<b>0.0565</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	<b>0.0618</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.939</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.396</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>1.33</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.1 %		50-150	1925004	06/17/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	<b>25.5</b>	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		111 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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**TSP-6**  
**P906069-04 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.210</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0584</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.269</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.2 %		50-150	1925004	06/17/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>34.9</b>	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		104 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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**TSP-7  
P906069-05 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatilic Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.156</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0618</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.218</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.3 %		50-150	1925004	06/17/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>28.6</b>	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		104 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 14:49
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**TSP-8**  
**P906069-06 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.168</b>	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0577</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.225</b>	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %		50-150	1925004	06/17/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>28.2</b>	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		105 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		104 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925003	06/17/19	06/17/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**TSP-9**  
**P906078-01 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.0661</b>	0.0500	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0289</b>	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.0950</b>	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		<i>91.0 %</i>		<i>50-150</i>	<i>1925013</i>	<i>06/18/19</i>	<i>06/19/19</i>	<i>EPA 8021B</i>	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>25.3</b>	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		<i>101 %</i>		<i>50-200</i>	<i>1925007</i>	<i>06/18/19</i>	<i>06/18/19</i>	<i>EPA 8015D</i>	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		<i>107 %</i>		<i>50-150</i>	<i>1925013</i>	<i>06/18/19</i>	<i>06/19/19</i>	<i>EPA 8015D</i>	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925010	06/18/19	06/19/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**TSP-10**  
**P906078-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
p,m-Xylene	<b>0.126</b>	0.0500	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
o-Xylene	<b>0.0423</b>	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Total Xylenes	<b>0.168</b>	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.8 %		50-150	1925013	06/18/19	06/19/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	<b>27.4</b>	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		106 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		101 %		50-150	1925013	06/18/19	06/19/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1925010	06/18/19	06/19/19	EPA 300.0/9056A	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**TSP-11**  
**P906078-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		96.5 %		50-150	1925013	06/18/19	06/19/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925007	06/18/19	06/18/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		101 %		50-200	1925007	06/18/19	06/18/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1925013	06/18/19	06/19/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925010	06/18/19	06/19/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**TSP-12**  
**P906084-01 (Solid)**

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Toluene	<b>0.0344</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Ethylbenzene	<b>0.0301</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
p,m-Xylene	<b>0.732</b>	0.0500	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
o-Xylene	<b>0.202</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Total Xylenes	<b>0.933</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		99.0 %		50-150	1925013	06/19/19	06/20/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	<b>79.4</b>	25.0	mg/kg	1	1925030	06/19/19	06/20/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925030	06/19/19	06/20/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		102 %		50-200	1925030	06/19/19	06/20/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	<b>24.5</b>	20.0	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		110 %		50-150	1925013	06/19/19	06/20/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1925028	06/19/19	06/20/19	EPA 300.0/9056A	

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

Project Name: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/25/19 16:17

**TSP-12R**  
**P906095-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Volatile Organics by EPA 8021</b>									
Benzene	ND	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
p,m-Xylene	<b>0.225</b>	0.0500	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
o-Xylene	<b>0.100</b>	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
Total Xylenes	<b>0.325</b>	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.6 %		50-150	1925039	06/21/19	06/21/19	EPA 8021B	
<b>Nonhalogenated Organics by 8015 - DRO/ORO</b>									
Diesel Range Organics (C10-C28)	<b>33.4</b>	25.0	mg/kg	1	1925041	06/21/19	06/21/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925041	06/21/19	06/21/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		96.9 %		50-200	1925041	06/21/19	06/21/19	EPA 8015D	
<b>Nonhalogenated Organics by 8015 - GRO</b>									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		107 %		50-150	1925039	06/21/19	06/21/19	EPA 8015D	
<b>Anions by 300.0/9056A</b>									
Chloride	ND	20.0	mg/kg	1	1925040	06/21/19	06/21/19	EPA 300.0/9056A	

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**TSP-13**  
**P906084-02 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
p,m-Xylene	<b>0.137</b>	0.0500	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
o-Xylene	<b>0.0856</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Total Xylenes	<b>0.223</b>	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		98.2 %		50-150	1925013	06/19/19	06/20/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	<b>46.5</b>	25.0	mg/kg	1	1925030	06/19/19	06/20/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1925030	06/19/19	06/20/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		100 %		50-200	1925030	06/19/19	06/20/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		103 %		50-150	1925013	06/19/19	06/20/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1925028	06/19/19	06/20/19	EPA 300.0/9056A	
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**Project Information**

Client: BPX ENERGY  
 Project: DAF B 2B  
 Project Manager: Steve Moskal  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Chain of Custody**

**Report Attention**  
 Report due by: JUNE 17, 2019  
 Attention: Steve Moskal / Jeff Blagg  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Lab Use Only**

Lab WO# P906065 Job Number 03143-0424  
 TAT 1D 3D

**TAT**

**EPA Program**

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
X	X	X			X	
X	X	X			X	

State			
NM	CO	UT	AZ
X			

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
1300	6/14/19	SOIL	1	TSP-1	1	X	X	X			X		
1306	6/14/19	SOIL	1	TSP-2	2	X	X	X			X		

**Additional Instructions:** Bill BPX contact: Steve Moskal P.O. to be issued vis 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 Blagg

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>6/14/2019</u>	Time <u>14:13</u>	Received by: (Signature) <u>Steve Moskal</u>	Date <u>6/14/19</u>	Time <u>14:13</u>
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

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

**Project Information**

**Chain of Custody**

Client: BPX ENERGY  
 Project: DAK B 2B  
 Project Manager: Steve Moskal  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Report Attention**  
 Report due by: JUNE 18, 2019  
 Attention: Steve Moskal / JEFF BLAGG  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Lab Use Only**  
 Lab WO# P906069 Job Number 03143-0424  
 TAT 1D  3D  RCRA  CWA  SDWA

**Analysis and Method**  
 State NM CO UT AZ  
 DRO/ORO by 8015  GRO/DRO by 8015  BTEX by 8021  VOC by 8260  Metals 6010  Chloride 300.0  TPH 418.1

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
1408	6/17/2019	SOIL	1	TSP-3	1	X	X	X			X		
1412			1	TSP-4	2								
1416			1	TSP-5	3								
1420			1	TSP-6	4								
1424			1	TSP-7	5								
1428			1	TSP-8	6								

**Additional Instructions:** BILL BPX P.O. FOR THIS PROJECT  
CONTACT: STEVE MOSKAL vis 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 Blagg  
 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>6/17/2019</u>	Time <u>15:36</u>	Received by: (Signature) <u>Jessica C. M...</u>	Date <u>6/17/19</u>	Time <u>15:36</u>	Lab Use Only
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	Received on ice: <input checked="" type="checkbox"/> Y / <input type="checkbox"/> N
						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.



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 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

Project Information

Chain of Custody

Client: BPX ENERGY  
 Project: JAY B 2B  
 Project Manager: Steve Moskai  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Report Attention**  
 Report due by: JUNE 19, 2019  
 Attention: Steve Moskai / Jeff Blagg  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Lab Use Only**  
 Lab WO# P906078 Job Number 03143-0424  
 TAT 1D  3D \_\_\_\_\_  
 EPA Program RCRA \_\_\_\_\_ CWA \_\_\_\_\_ SDWA \_\_\_\_\_

**Analysis and Method**  
 State \_\_\_\_\_  
 NM  CO \_\_\_\_\_ UT \_\_\_\_\_ AZ \_\_\_\_\_  
 DRO/ORO by 8015 \_\_\_\_\_  
 GRO/DRO by 8015 \_\_\_\_\_  
 BTEX by 8021 \_\_\_\_\_  
 VOC by 8260 \_\_\_\_\_  
 Metals 6010 \_\_\_\_\_  
 Chloride 300.0 \_\_\_\_\_  
 TPH 418.1 \_\_\_\_\_

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
1348	6/19/2019	SOIL	1	TSP-9	1	X	X	X			X		1-402 JAV
1352			1	TSP-10	2	X	X	X			X		
1416			1	TSP-11	3	X	X	X			X		

**Additional Instructions:** Bill BPX  
vis. ice in cooler - in CONTACT: Steve Moskai P.O. For this Jobsite

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 Blagg

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>6/19/2019</u>	Time <u>1510</u>	Received by: (Signature) <u>Steve Moskai</u>	Date <u>06-18-19</u>	Time <u>15:10</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

**Lab Use Only**  
 Received on ice:  Y / N  
 T1 \_\_\_\_\_ T2 \_\_\_\_\_ T3 \_\_\_\_\_  
 AVG Temp °C 4.0

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.



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envirotech inc.com  
 laboratory@envirotech-inc.com

Project Information

Chain of Custody

Client: BPX ENERGY  
 Project: DAY 8 2B  
 Project Manager: STEVE MOSKAL  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Report Attention**  
 Report due by: JUNE 20, 2019  
 Attention: STEVE MOSKAL / JEFF BLISS  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Lab Use Only**  
 Lab WO# P906084 Job Number 03143-0424  
 TAT 1D  3D   
**EPA Program** RCRA  CWA  SDWA   
**Analysis and Method**  
 DRO/ORO by 8015  GRO/DRO by 8015  BTEX by 8021  VOC by 8260  Metals 6010  Chloride 300.0  TPH 418.1   
**State** 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
1402	6/19/19	SOIL	1	TSP-12	1	X	X	X			X		7 PT. COMPOSITE
1406	6/19/19	SOIL	1	TSP-13	2	X	X	X			X		7 PT. COMPOSITE

**Additional Instructions:** BILL BPX CONTACT: STEVE MOSKAL P.O. TO BE ISSUED VIS ICE IN COOLER

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling 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) <u>[Signature]</u>	Date <u>6/19/19</u>	Time <u>15:21</u>	Received by: (Signature) <u>[Signature]</u>	Date <u>6/19/19</u>	Time <u>15:21</u>
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

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.



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

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

**Project Information**

Client: BPX Energy  
 Project: DAT B ZB  
 Project Manager: Steve Muskal  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Chain of Custody**

**Report Attention**  
 Report due by: 6/24/2019  
 Attention: Steve Muskal / Jeff Blygg  
 Address: \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone: \_\_\_\_\_  
 Email: \_\_\_\_\_

**Lab Use Only**      **TAT**      **EPA Program**

Lab WO# P906095      Job Number 03143-0424      1D  3D       RCRA  CWA  SDWA

**Analysis and Method**      **State**

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

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					Remarks	
0835	6/21/2019	SOIL	1	TSP-12R	1	X	X	X			X							

**Additional Instructions:** Bru BPX  
contact: Steve Muskal      P.O. to be issued      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 Blygg

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 Blygg</u>	Date <u>6/21/2019</u>	Time <u>0909</u>	Received by: (Signature) <u>Jessie A. [Signature]</u>	Date <u>6/21/19</u>	Time <u>9:09</u>	<b>Lab Use Only</b> Received on ice: <u>(Y) / N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	

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.



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envirotech inc.com  
 laboratory@envirotech inc.com

VADOSE ZONE

CONFIRMATION

From: Nelson Velez (blagg\_njv@yahoo.com)

To: cory.smith@state.nm.us

Cc: brandon.powell@state.nm.us; steven.moskal@bpx.com; jeffcblagg@aol.com

Date: Monday, July 22, 2019, 08:40 AM MDT

---

All,

On behalf of BPX Energy Inc., Blagg Engineering, Inc. plans to conduct environmental sampling at the Day B # 2B site this coming Thursday, July 25th or Friday, July 26th.

If you wish to witness this event, please contact Jeff Blagg or myself at your convenience. Thanks.

Incident #: NVF1836035634

API #: 300-45-25519

Legals: Unit Letter F, Section 7, T29N, R08W

GPS Coord.: 36.73396,-107.71093

Nelson J. Velez

Blagg Engr.

cell: (505) 320-3489

RE: [EXT] Notification of BPX - Day B 002B Treated Stockpile Vadose Zone Sampling

---

From: Smith, Cory, EMNRD (Cory.Smith@state.nm.us)

To: steven.moskal@bpx.com

Cc: Brandon.Powell@state.nm.us; jeffcblagg@aol.com; blagg\_njv@yahoo.com

Date: Monday, July 22, 2019, 10:35 AM MDT

---

Steve,

Please let me know As soon as BP has a time for the sampling events. I cannot plan or schedule to MAYBE sample on the 25 or the 26.

Cory Smith

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 115

[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

## RE: [EXT] Notification of BPX - Day B 002B Treated Stockpile Vadose Zone Sampling

---

From: Steven Moskal (Steven.Moskal@BPX.COM)

To: Cory.Smith@state.nm.us

Cc: Brandon.Powell@state.nm.us; jeffcblagg@aol.com; blagg\_njv@yahoo.com

Date: Monday, July 22, 2019, 12:29 PM MDT

---

Cory,

The schedule is open, if you prefer one day versus the other, please let us know and we can accommodate. This was not to be a maybe sampling event, but an option to you.

Thank you,

**Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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Fw: [EXT] Notification of BPX - Day B 002B Treated Stockpile Vadose Zone Sampling

---

From: Nelson Velez (blagg\_njv@yahoo.com)

To: aadeloye@blm.gov; l1thomas@blm.gov

Cc: steven.moskal@bpx.com; jeffcblagg@aol.com

Date: Monday, July 22, 2019, 01:17 PM MDT

---

My apologies, I forgot to include you both in the notification submitted to NMOCD below. We purposefully left the date & time opened to better accomodate NMOCD & BLM. Please contact Steve, Jeff Blagg, or myself on the time & date that works for you to witness this event. Again, I'm sorry for the omission.

Nelson J. Velez  
Blagg Engr.  
cell: (505) 320-3489

RE: Vadose Zone Sampling Plans

## July 2019 Email Correspondence - Vadose Zone Sampling Plan

**From:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**To:** Steven Moskal, Adeloey, Abiodun (aadeloye@blm.gov)  
**Cc:** Blagg, Jefferey, 'blagg\_njv@yahoo.com'  
Jul 24 at 11:19 AM

Steve,

6-8 is fine.. OCD approves the proposed sampling plan for below email.  
Please include this approval in your final closure reports.

Cory Smith - Environmental Specialist

Oil Conservation Division

---

**From:** Steven Moskal <Steven.Moskal@BPX.COM>  
**Sent:** Wednesday, July 24, 2019 11:18 AM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Adeloey, Abiodun (aadeloye@blm.gov) <aadeloye@blm.gov>  
**Cc:** Blagg, Jefferey <jeffcblagg@aol.com>; 'blagg\_njv@yahoo.com' <blagg\_njv@yahoo.com>  
**Subject:** [EXT] RE: Vadose Zone Sampling Plans

Yes, on the square footage, but with 6-8 points per composite, unless you'd like to see 5 points.

Steve Moskal - Environmental Coordinator

BP America Production Co. (bpx energy – WBU)

---

**From:** Smith, Cory, EMNRD [<mailto:Cory.Smith@state.nm.us>]  
**Sent:** Wednesday, July 24, 2019 11:17 AM  
**To:** Steven Moskal <[Steven.Moskal@BPX.COM](mailto:Steven.Moskal@BPX.COM)>; Adeloey, Abiodun (aadeloye@blm.gov) <aadeloye@blm.gov>  
**Cc:** Blagg, Jefferey <[jeffcblagg@aol.com](mailto:jeffcblagg@aol.com)>; 'blagg\_njv@yahoo.com' <[blagg\\_njv@yahoo.com](mailto:blagg_njv@yahoo.com)>  
**Subject:** RE: Vadose Zone Sampling Plans

Steve,

So on average approximately 1,000 sqft per 5pt composite sample?

Cory Smith - Environmental Specialist

Oil Conservation Division

---

**From:** Steven Moskal <Steven.Moskal@BPX.COM>  
**Sent:** Wednesday, July 24, 2019 8:58 AM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>; Adeloey, Abiodun (aadeloye@blm.gov) <aadeloye@blm.gov>  
**Cc:** Blagg, Jefferey <jeffcblagg@aol.com>; 'blagg\_njv@yahoo.com' <[blagg\\_njv@yahoo.com](mailto:blagg_njv@yahoo.com)>  
**Subject:** [EXT] Vadose Zone Sampling Plans

Cory,

Attached are the site maps for the vadose zone sampling scheduled for tomorrow and Friday.

For the Hardie LS 001A, we plan to split the two stockpile areas into 2 segments each, west and east in each area, for a total of four vadose zone samples, beginning at 8:00 AM tomorrow, 7/25. From there, we plan to move to the Wilch A 1, where the stockpile are will be split into 4 segments, the north half into 2, west and east, and the south half into north and south, for a total of four sample locations. We will then plan to move to the GCU Com H 180 for excavation closure sampling on the San Juan County owned surface.

On Friday, 7/26, we plan to sample the Day B 2B beginning at 10:00 AM. The stockpile area will be split into 4 equal segments, for a total of 4 samples. From there, the plan will be to mobilize to the historical landfarm area located at the Jennapah 1. Due to the unknown configuration of the landfarm area, the area on the north half of the well pad will be split into 4 equal sections, west, west-central, east-central and east, for a total of 4 samples.

All samples will be collected from the ground surface to a depth of approximately 8 inches. Each area will be sampled as composites samples, with a total of 6-8 points for each sample segments, depending on the size of the area. If any visual changes are noted, the area will be reassessed and an alternative sample plan will be discussed prior to sample collection.

Let me know if you have questions.

Steve Moskal - Environmental Coordinator

BP America Production Co. (bpx energy – WBU)

FW: Day B #2B - Vadose Zone Sampling Doc

## **August 2019 Email Correspondence - thread 1 of 2**

---

From: Steven Moskal (Steven.Moskal@BPX.COM)  
To: Cory.Smith@state.nm.us; aadeloye@blm.gov  
Cc: jeffcblagg@aol.com; blagg\_njv@yahoo.com  
Date: Tuesday, August 6, 2019, 02:21 PM MDT

---

Cory and Emmanuel,

Attached is the vadose zone sampling document for the Day B 2B, following soil shredding. Vadose Zone 3 sample has failed the site closure standard and will be either treated with hydrogen peroxide or removed for off site disposal.

I just wanted to make you aware of this. We will schedule closure sampling in the next week or two.

Thank you,

### **Steve Moskal**

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

---

**From:** Nelson Velez [mailto:blagg\_njv@yahoo.com]  
**Sent:** Tuesday, August 6, 2019 6:31 AM  
**To:** Steven Moskal <Steven.Moskal@BPX.COM>  
**Cc:** Jefferey Blagg <jeffcblagg@aol.com>; Dustin Mace <dustindmace@gmail.com>  
**Subject:** Day B #2B - Vadose Zone Sampling Doc

Steve,

Here's the documentation for the July 26, 2019 treated stockpile vadose zone sampling event. It includes aerial map of zone areas (with annotations), photos of those zone areas with annotations, and the final lab report. Please let me know if any changes are needed. Thanks.

Nelson J. Velez  
Blagg Engr.  
cell: (505) 320-3489

 Day B 2B - TSP Vadose Zone Sampling Doc 2019-07-26.pdf  
705.1kB

## August 2019 Email Correspondence - thread 2 of 2

RE: [EXTERNAL] RE: Day B #2B - Vadose Zone Sampling Doc

---

From: Steven Moskal (Steven.Moskal@BPX.COM)  
To: aadeloye@blm.gov; Cory.Smith@state.nm.us  
Cc: jeffcblagg@aol.com; blagg\_njv@yahoo.com  
Date: Tuesday, August 6, 2019, 03:40 PM MDT

---

Great point Cory and Emmanuel. The hydrogen peroxide does temporarily sterilize the soil, however, the area will be reclaimed with new seed. We have had success with revegetation in areas using hydrogen peroxide treated soils. The area will be monitored for revegetation success.

### Steve Moskal

*Environmental Coordinator*

*BP America Production Co.*

*bpx energy - WBU*

1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

[steven.moskal@bpx.com](mailto:steven.moskal@bpx.com)

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**From:** Adeloye, Abiodun [mailto:adeloye@blm.gov]  
**Sent:** Tuesday, August 6, 2019 3:38 PM  
**To:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Cc:** Steven Moskal <Steven.Moskal@BPX.COM>; Blagg, Jefferey <jeffcblagg@aol.com>; blagg\_njv@yahoo.com  
**Subject:** Re: [EXTERNAL] RE: Day B #2B - Vadose Zone Sampling Doc

Thank Cory, that's my concern also.

Thank you.

On Tue, Aug 6, 2019 at 3:35 PM Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)> wrote:

Steve,

A concern I have is if BP treats the area with Hydrogen peroxide it may not support vegetation regrowth for interim reclamation

Cory Smith

Environmental Specialist

Oil Conservation Division

Energy, Minerals, & Natural Resources

1000 Rio Brazos, Aztec, NM 87410

(505)334-6178 ext 115

[cory.smith@state.nm.us](mailto:cory.smith@state.nm.us)

---

# BPX - DAY B 002B

(P) Section 7, T29N, R8W  
API #: 3004525519

Imagery date: 10/5/2016  
WH GPS Coord.: 36.733950,-107.710909

WH

~48 ft., S85E  
from Well Head

~54 ft., S30E  
from Well Head

~87 ft., S6E  
from Well Head

~138 ft., S40W  
from Well Head

~117 ft., S19W  
from Well Head

VZ1

VZ2

VZ3

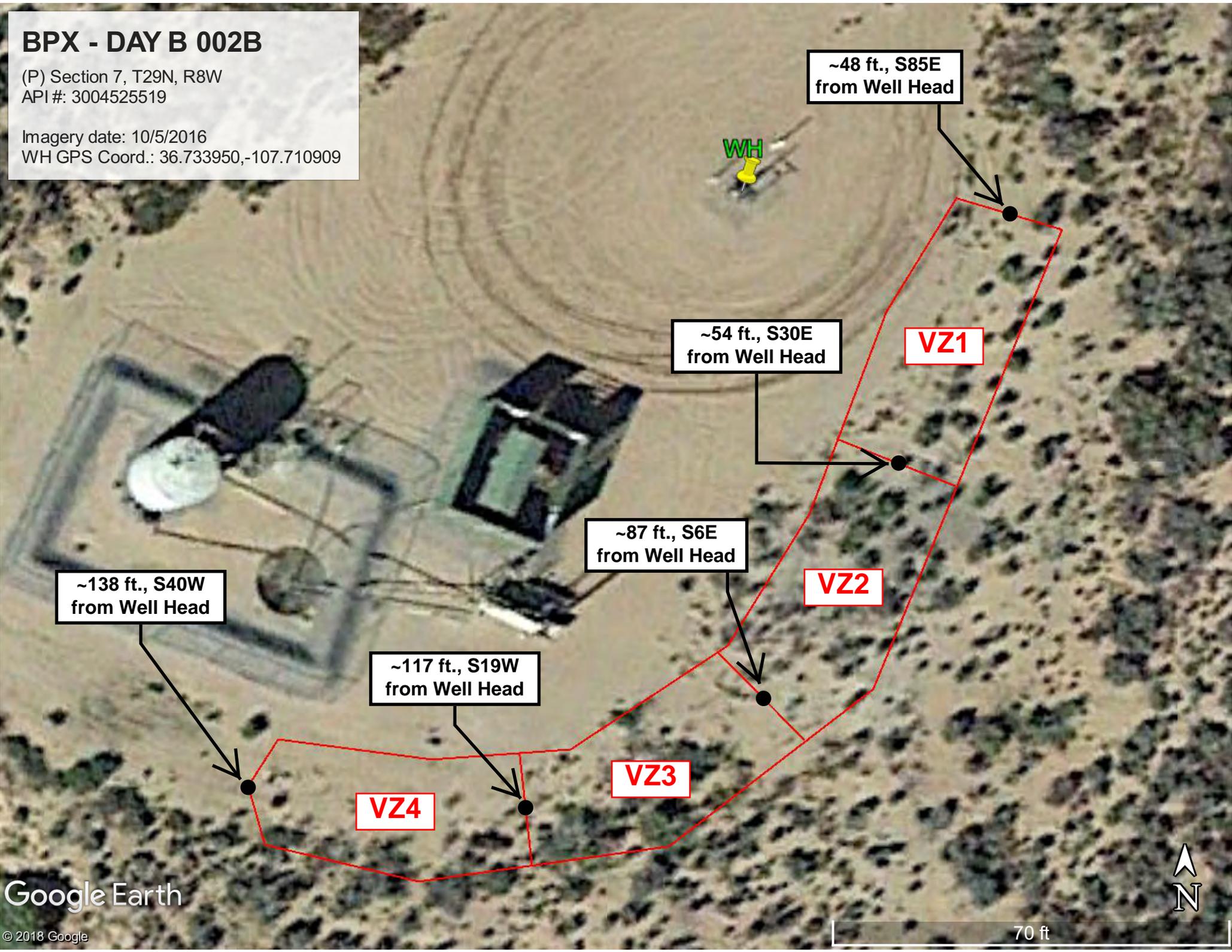
VZ4

Google Earth

© 2018 Google



70 ft



**BPX - DAY B 002B**  
**Vadose Zone Sampling**  
**July 26, 2019**

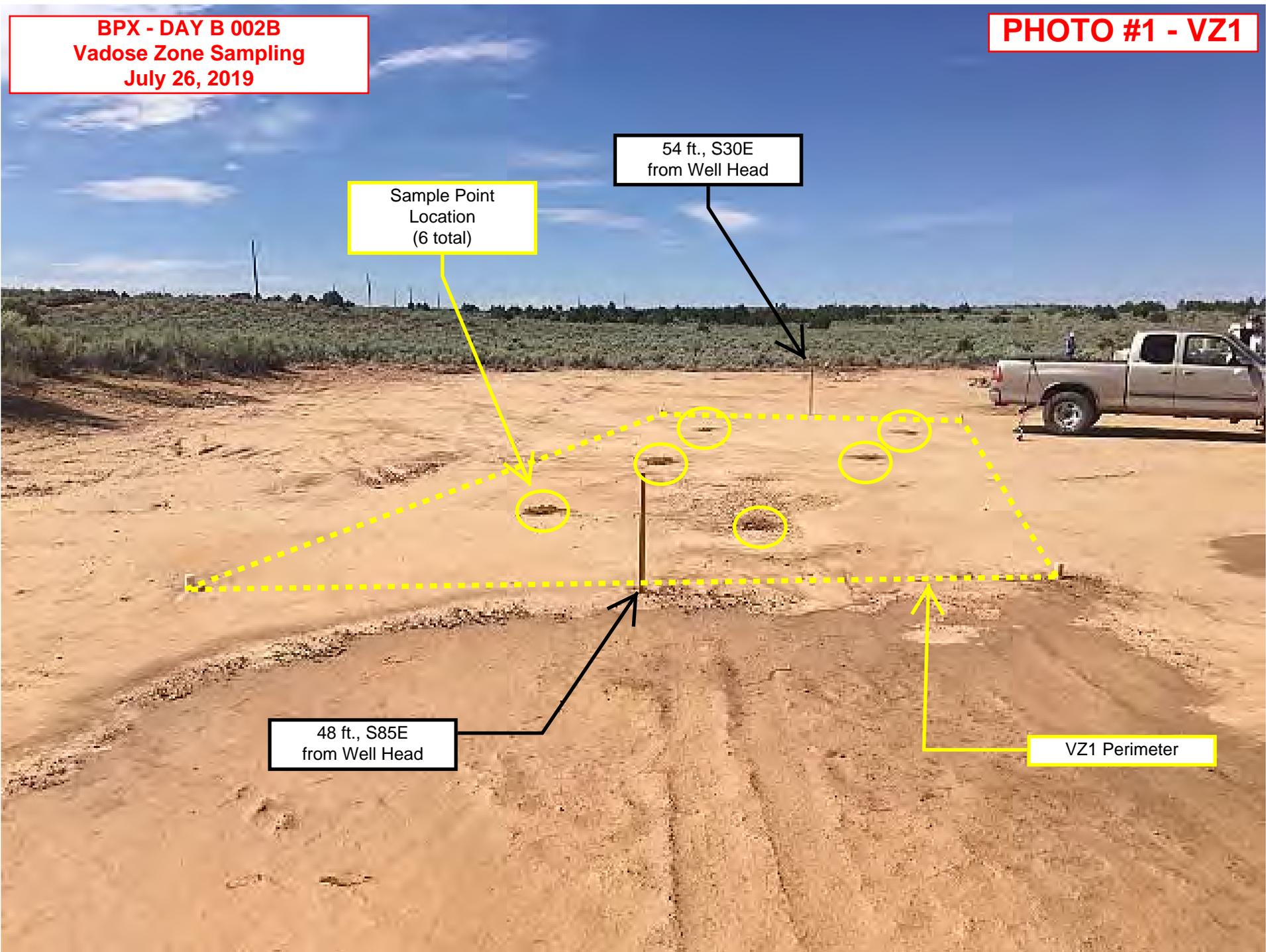
**PHOTO #1 - VZ1**

54 ft., S30E  
from Well Head

Sample Point  
Location  
(6 total)

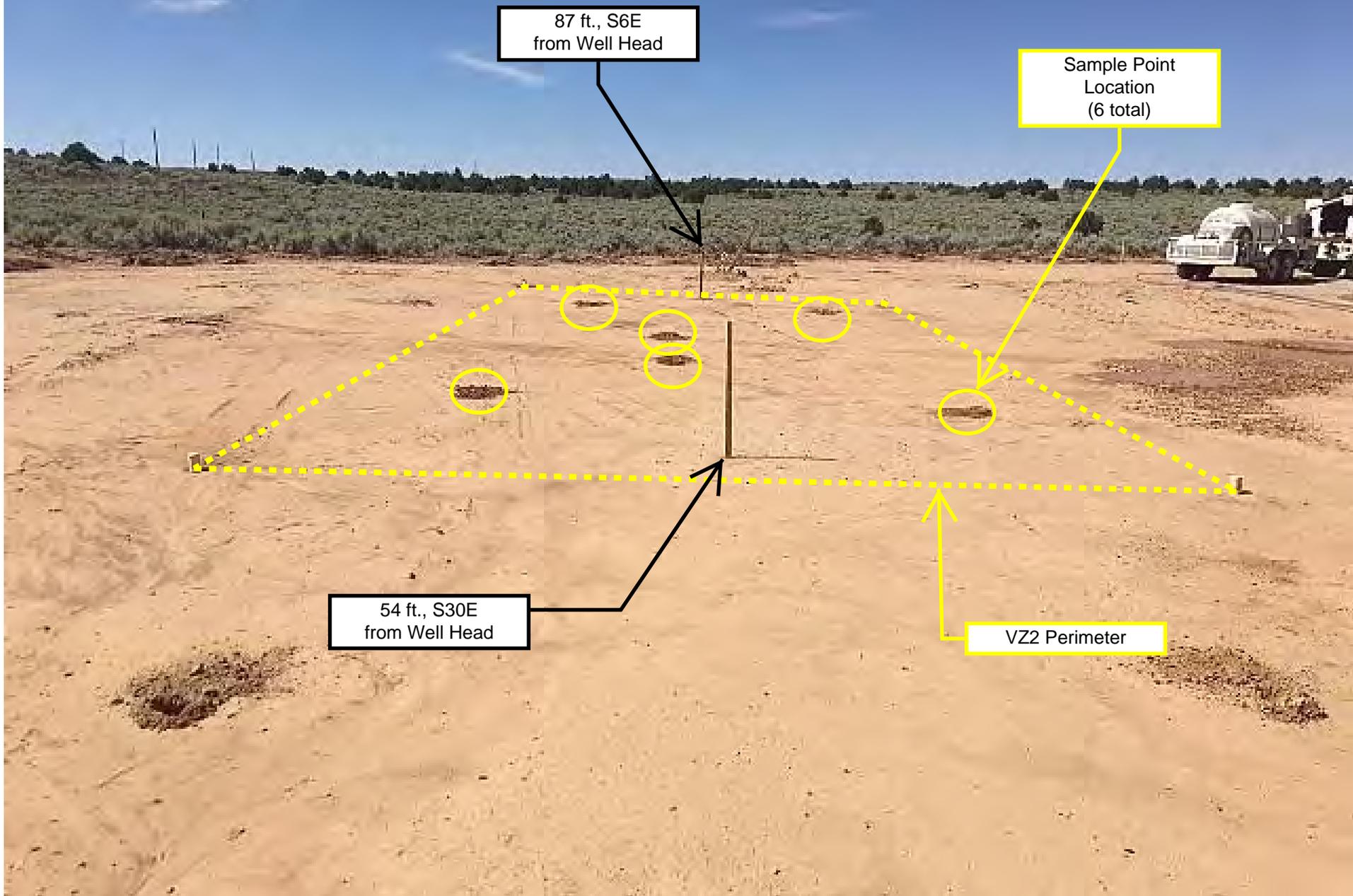
48 ft., S85E  
from Well Head

VZ1 Perimeter



**BPX - DAY B 002B**  
**Vadose Zone Sampling**  
**July 26, 2019**

**PHOTO #2 - VZ2**



87 ft., S6E  
from Well Head

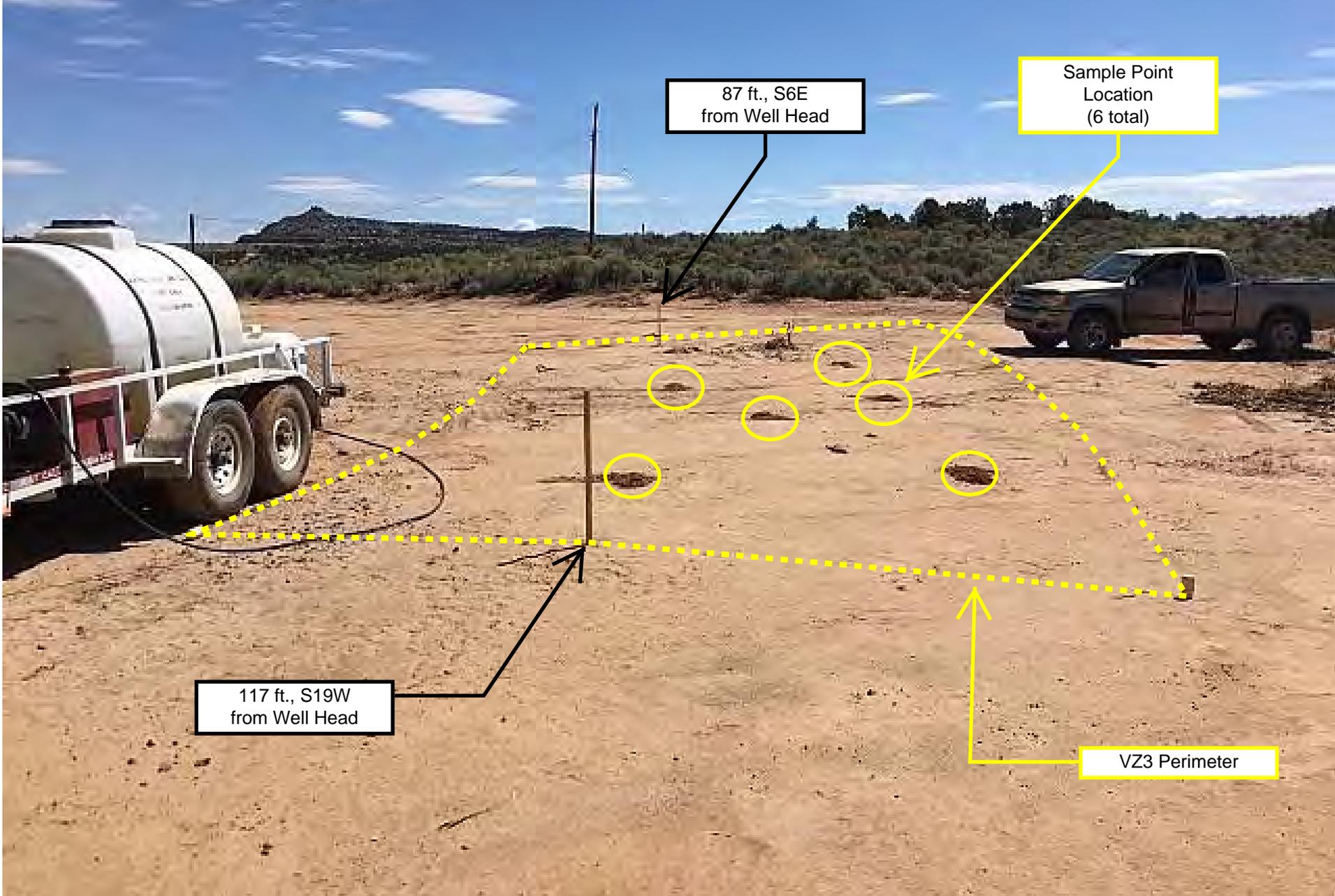
Sample Point  
Location  
(6 total)

54 ft., S30E  
from Well Head

VZ2 Perimeter

**BPX - DAY B 002B**  
**Vadose Zone Sampling**  
**July 26, 2019**

**PHOTO #3 - VZ3**



87 ft., S6E  
from Well Head

Sample Point  
Location  
(6 total)

117 ft., S19W  
from Well Head

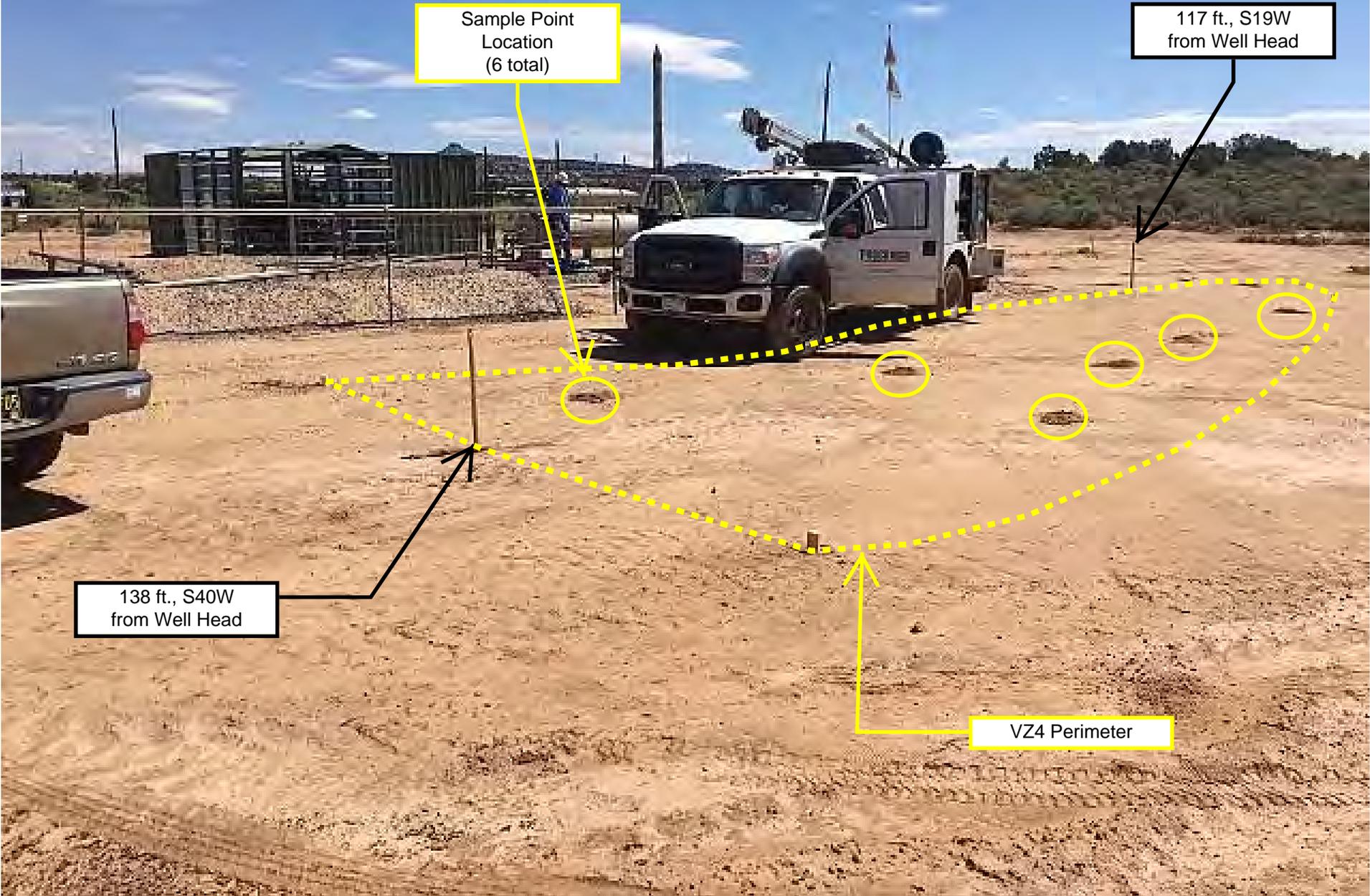
VZ3 Perimeter

Day B 2B  
Treatment Zone TSP-VZ#3(2)  
September 10, 2019



**BPX - DAY B 002B**  
**Vadose Zone Sampling**  
**July 26, 2019**

**PHOTO #4 - VZ4**



Sample Point  
Location  
(6 total)

117 ft., S19W  
from Well Head

138 ft., S40W  
from Well Head

VZ4 Perimeter

BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**TSP-VZ #1  
P907111-01 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		107 %		50-150	1931033	07/31/19	08/03/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		77.5 %		50-200	1931038	07/31/19	08/02/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.6 %		50-150	1931033	07/31/19	08/03/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1931046	08/01/19	08/02/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**TSP-VZ #2  
P907111-02 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	1931033	07/31/19	08/03/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		76.5 %		50-200	1931038	07/31/19	08/02/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.2 %		50-150	1931033	07/31/19	08/03/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1931046	08/01/19	08/02/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**TSP-VZ #3  
P907111-03 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	1931033	07/31/19	08/03/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	272	25.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	493	50.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>	Total TPH = 765 mg/Kg	70.8 %		50-200	1931038	07/31/19	08/02/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.1 %		50-150	1931033	07/31/19	08/03/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1931046	08/01/19	08/02/19	EPA 300.0/9056A	
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BP America Production Co.  
PO Box 22024  
Tulsa OK, 74121-2024

Project Name: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
09/17/19 10:22

**TSP- VZ#3(2)  
P909024-01 (Solid)**

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		112 %		50-150	1937016	09/10/19	09/11/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1937015	09/10/19	09/11/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1937015	09/10/19	09/11/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		113 %		50-200	1937015	09/10/19	09/11/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1937016	09/10/19	09/11/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		98.2 %		50-150	1937016	09/10/19	09/11/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1937032	09/13/19	09/13/19	EPA 300.0/9056A	
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**TSP-VZ #4  
P907111-04 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

**Volatile Organics by EPA 8021**

Benzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		108 %		50-150	1931033	07/31/19	08/03/19	EPA 8021B	

**Nonhalogenated Organics by 8015 - DRO/ORO**

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1931038	07/31/19	08/02/19	EPA 8015D	
<i>Surrogate: n-Nonane</i>		70.7 %		50-200	1931038	07/31/19	08/02/19	EPA 8015D	

**Nonhalogenated Organics by 8015 - GRO**

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1931033	07/31/19	08/03/19	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.4 %		50-150	1931033	07/31/19	08/03/19	EPA 8015D	

**Anions by 300.0/9056A**

Chloride	ND	20.0	mg/kg	1	1931046	08/01/19	08/02/19	EPA 300.0/9056A	
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**Project Information**

**Chain of Custody**

Client: **BPX Energy Inc.**  
 Project: **Day B #2B**  
 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: **8/05/2019**  
 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#: **P907111** Job Number: **03413-0424**  
 TAT: 1D 3D  
 EPA Program: RCRA CWA SDWA

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Analysis and Method							State				Remarks		
						DRO/DRO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	NM	CO	UT	AZ			
1026	7/26/19	SOIL	1-4 oz.	TSP - VZ #1	1	X	X	X			X								
1040	7/26/19	SOIL	1-4 oz.	TSP - VZ #2	2	X	X	X			X								
1107	7/26/19	SOIL	1-4 oz.	TSP - VZ #3	3	X	X	X			X								
1125	7/26/19	SOIL	1-4 oz.	TSP - VZ #4	4	X	X	X			X								

**Additional Instructions:** Send emails to: [Steven.Moskal@bpx.com](mailto:Steven.Moskal@bpx.com), [jeffcblagg@aol.com](mailto:jeffcblagg@aol.com), & [blagg\\_njv@yahoo.com](mailto:blagg_njv@yahoo.com).  
 Use PO on file.

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) <i>[Signature]</i>	Date 7/26/19	Time 1600	Received by: (Signature) <i>[Signature]</i>	Date 7/26/19	Time 16:00	<b>Lab Use Only</b> Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N T1 T2 T3 AVG Temp °C <b>4</b>
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.





LABORATORY

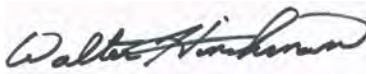
QUALITY CONTROL /

QUALITY ASSURANCE

## Analytical Report

### Report Summary

Client: BP America Production Co.  
Chain Of Custody Number:  
Samples Received: 12/13/2018 10:28:00AM  
Job Number: 03143-0424  
Work Order: P812028  
Project Name/Location: Day B 2B

Report Reviewed By:  Date: 12/17/18  
\_\_\_\_\_  
Walter Hinchman, Laboratory Director

 Date: 12/17/18  
\_\_\_\_\_  
Tim Cain, Project Manager



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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 12/17/18 16:41
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Release 5-Pt @2'	P812028-01A	Soil	12/13/18	12/13/18	Glass Jar, 4 oz.

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

Project Name: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

Reported:  
12/17/18 16:41

### 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 1850019 - Purge and Trap EPA 5030A

##### Blank (1850019-BLK1)

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Benzene	ND	100	ug/kg							
Toluene	ND	100	"							
Ethylbenzene	ND	100	"							
p,m-Xylene	ND	200	"							
o-Xylene	ND	100	"							
Total Xylenes	ND	100	"							
Total BTEX	ND	100	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>8000</i>		<i>"</i>	<i>8000</i>		<i>100</i>	<i>50-150</i>			

##### LCS (1850019-BS1)

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Benzene	5010	100	ug/kg	5000	ND	100	70-130			
Toluene	5060	100	"	5000	ND	101	70-130			
Ethylbenzene	5100	100	"	5000	ND	102	70-130			
p,m-Xylene	10400	200	"	10000	ND	104	70-130			
o-Xylene	5050	100	"	5000	ND	101	70-130			
Total Xylenes	15500	100	"	15000	ND	103	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>7920</i>		<i>"</i>	<i>8000</i>		<i>99.1</i>	<i>50-150</i>			

##### Matrix Spike (1850019-MS1)

Source: P812021-01

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Benzene	5290	100	ug/kg	5000	ND	106	54.3-133			
Toluene	5320	100	"	5000	ND	106	61.4-130			
Ethylbenzene	5340	100	"	5000	ND	107	61.4-133			
p,m-Xylene	10900	200	"	10000	ND	109	63.3-131			
o-Xylene	5280	100	"	5000	ND	106	63.3-131			
Total Xylenes	16200	100	"	15000	ND	108	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>8080</i>		<i>"</i>	<i>8000</i>		<i>101</i>	<i>50-150</i>			

##### Matrix Spike Dup (1850019-MSD1)

Source: P812021-01

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Benzene	4660	100	ug/kg	5000	ND	93.2	54.3-133	12.7	20	
Toluene	4670	100	"	5000	ND	93.3	61.4-130	13.0	20	
Ethylbenzene	4730	100	"	5000	ND	94.5	61.4-133	12.3	20	
p,m-Xylene	9710	200	"	10000	ND	97.1	63.3-131	11.7	20	
o-Xylene	4700	100	"	5000	ND	94.1	63.3-131	11.6	20	
Total Xylenes	14400	100	"	15000	ND	96.1	63.3-131	11.7	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>7940</i>		<i>"</i>	<i>8000</i>		<i>99.3</i>	<i>50-150</i>			

##### LCS (1850019-BS2)

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

<i>Surrogate: 4-Bromochlorobenzene-PID</i>	<i>7960</i>		<i>ug/kg</i>	<i>8000</i>		<i>99.5</i>	<i>50-150</i>			
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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 12/17/18 16:41
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**Nonhalogenated Organics by 8015 - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1850019 - Purge and Trap EPA 5030A**

**Blank (1850019-BLK1)**

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.47		"	8.00		106	50-150			

**LCS (1850019-BS2)**

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Gasoline Range Organics (C6-C10)	50.2	20.0	mg/kg	50.0		100	70-130			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.55		"	8.00		107	50-150			

**Matrix Spike (1850019-MS2)**

Source: P812021-01

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Gasoline Range Organics (C6-C10)	50.3	20.0	mg/kg	50.0	ND	101	70-130			
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.48		"	8.00		106	50-150			

**Matrix Spike Dup (1850019-MSD2)**

Source: P812021-01

Prepared: 12/12/18 1 Analyzed: 12/13/18 1

Gasoline Range Organics (C6-C10)	45.7	20.0	mg/kg	50.0	ND	91.4	70-130	9.50	20	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	8.54		"	8.00		107	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 12/17/18 16:41
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**Nonhalogenated Organics by 8015 - Quality Control**

**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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**Batch 1850023 - DRO Extraction EPA 3570**

**Blank (1850023-BLK1)**

Prepared & Analyzed: 12/13/18 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40+)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	<i>47.6</i>		<i>"</i>	<i>50.0</i>		<i>95.1</i>	<i>50-200</i>			

**LCS (1850023-BS1)**

Prepared & Analyzed: 12/13/18 1

Diesel Range Organics (C10-C28)	462	25.0	mg/kg	500		92.4	38-132			
<i>Surrogate: n-Nonane</i>	<i>45.8</i>		<i>"</i>	<i>50.0</i>		<i>91.5</i>	<i>50-200</i>			

**Matrix Spike (1850023-MS1)**

Source: P812021-01

Prepared & Analyzed: 12/13/18 1

Diesel Range Organics (C10-C28)	451	25.0	mg/kg	500	ND	90.2	38-132			
<i>Surrogate: n-Nonane</i>	<i>44.8</i>		<i>"</i>	<i>50.0</i>		<i>89.6</i>	<i>50-200</i>			

**Matrix Spike Dup (1850023-MSD1)**

Source: P812021-01

Prepared: 12/13/18 1 Analyzed: 12/13/18 2

Diesel Range Organics (C10-C28)	467	25.0	mg/kg	500	ND	93.4	38-132	3.50	20	
<i>Surrogate: n-Nonane</i>	<i>46.1</i>		<i>"</i>	<i>50.0</i>		<i>92.3</i>	<i>50-200</i>			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 12/17/18 16:41
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**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 1850024 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1850024-BLK1)</b>				Prepared: 12/14/18 0 Analyzed: 12/14/18 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1850024-BS1)</b>				Prepared: 12/14/18 0 Analyzed: 12/14/18 1						
Chloride	255	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1850024-MS1)</b>				Source: P812028-01 Prepared: 12/14/18 0 Analyzed: 12/14/18 1						
Chloride	258	20.0	mg/kg	250	ND	103	80-120			
<b>Matrix Spike Dup (1850024-MSD1)</b>				Source: P812028-01 Prepared: 12/14/18 0 Analyzed: 12/14/18 1						
Chloride	258	20.0	mg/kg	250	ND	103	80-120	0.0660	20	

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BP America Production Co.	Project Name:	Day B 2B	<b>Reported:</b> 12/17/18 16:41
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.
- 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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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Base @ 29'	P906061-01A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
North Base @ 29'	P906061-02A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
West Wall (South Half)	P906061-03A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
West Wall (North Half)	P906061-04A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
East Wall (South Half)	P906061-05A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
East Wall (North Half)	P906061-06A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
North Wall	P906061-07A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.
South Wall	P906061-08A	Soil	06/13/19	06/13/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**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 1924047 - DRO Extraction EPA 3570**

<b>Blank (1924047-BLK1)</b>				Prepared: 06/13/19 1 Analyzed: 06/14/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.8</i>	<i>50-200</i>			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/14/19 13:33
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**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 1924046 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1924046-BLK1)</b>				Prepared: 06/13/19 1 Analyzed: 06/14/19 0						
Chloride	ND	20.0	mg/kg							
<b>LCS (1924046-BS1)</b>				Prepared: 06/13/19 1 Analyzed: 06/14/19 0						
Chloride	257	20.0	mg/kg	250	103	90-110				
<b>Matrix Spike (1924046-MS1)</b>				Source: P906061-01 Prepared: 06/13/19 1 Analyzed: 06/14/19 0						
Chloride	373	20.0	mg/kg	250	119	102	80-120			
<b>Matrix Spike Dup (1924046-MSD1)</b>				Source: P906061-01 Prepared: 06/13/19 1 Analyzed: 06/14/19 0						
Chloride	377	20.0	mg/kg	250	119	103	80-120	0.989	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: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/14/19 13:33

### 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: 6/14/2019

Job Number: 03143-0424

Work Order: P906065

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 6/17/19

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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-1	P906065-01A	Soil	06/14/19	06/14/19	Glass Jar, 4 oz.
TSP-2	P906065-02A	Soil	06/14/19	06/14/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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**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 1924053 - Purge and Trap EPA 5030A**

**Blank (1924053-BLK1)**

Prepared: 06/14/19 0 Analyzed: 06/15/19 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 7.72 " 8.00 96.5 50-150

**LCS (1924053-BS1)**

Prepared: 06/14/19 0 Analyzed: 06/15/19 0

Benzene	4.25	0.0250	mg/kg	5.00		85.1	70-130			
Toluene	4.63	0.0250	"	5.00	0.0580	92.7	70-130			
Ethylbenzene	4.60	0.0250	"	5.00	0.573	92.0	70-130			
p,m-Xylene	9.46	0.0500	"	10.0	1.83	94.6	70-130			
o-Xylene	4.61	0.0250	"	5.00	1.55	92.2	70-130			
Total Xylenes	14.1	0.0250	"	15.0	3.38	93.8	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.89 " 8.00 98.6 50-150

**Matrix Spike (1924053-MS1)**

Source: P906063-01

Prepared: 06/14/19 0 Analyzed: 06/15/19 0

Benzene	4.17	0.0250	mg/kg	5.00	ND	83.5	54.3-133			
Toluene	4.62	0.0250	"	5.00	0.0580	91.3	61.4-130			
Ethylbenzene	5.16	0.0250	"	5.00	0.573	91.7	61.4-133			
p,m-Xylene	11.1	0.0500	"	10.0	1.83	93.1	63.3-131			
o-Xylene	6.14	0.0250	"	5.00	1.55	91.7	63.3-131			
Total Xylenes	17.3	0.0250	"	15.0	3.38	92.6	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 10.2 " 8.00 128 50-150

**Matrix Spike Dup (1924053-MSD1)**

Source: P906063-01

Prepared: 06/14/19 0 Analyzed: 06/15/19 1

Benzene	4.16	0.0250	mg/kg	5.00	ND	83.2	54.3-133	0.407	20	
Toluene	4.60	0.0250	"	5.00	0.0580	90.9	61.4-130	0.397	20	
Ethylbenzene	5.14	0.0250	"	5.00	0.573	91.3	61.4-133	0.398	20	
p,m-Xylene	11.1	0.0500	"	10.0	1.83	92.8	63.3-131	0.308	20	
o-Xylene	6.15	0.0250	"	5.00	1.55	91.8	63.3-131	0.148	20	
Total Xylenes	17.2	0.0250	"	15.0	3.38	92.5	63.3-131	0.146	20	

Surrogate: 4-Bromochlorobenzene-PID 10.4 " 8.00 130 50-150

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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**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 1924047 - DRO Extraction EPA 3570**

**Blank (1924047-BLK1)**

Prepared: 06/13/19 1 Analyzed: 06/14/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	49.4		"	50.0		98.8	50-200			

**LCS (1924047-BS1)**

Prepared: 06/13/19 1 Analyzed: 06/17/19 1

Diesel Range Organics (C10-C28)	461	25.0	mg/kg	500		92.1	38-132			
<i>Surrogate: n-Nonane</i>	51.4		"	50.0		103	50-200			

**Matrix Spike (1924047-MS1)**

**Source: P906061-01**

Prepared: 06/13/19 1 Analyzed: 06/17/19 1

Diesel Range Organics (C10-C28)	347	25.0	mg/kg	500	ND	69.4	38-132			
<i>Surrogate: n-Nonane</i>	46.5		"	50.0		92.9	50-200			

**Matrix Spike Dup (1924047-MSD1)**

**Source: P906061-01**

Prepared: 06/13/19 1 Analyzed: 06/17/19 1

Diesel Range Organics (C10-C28)	411	25.0	mg/kg	500	ND	82.3	38-132	17.0	20	
<i>Surrogate: n-Nonane</i>	46.4		"	50.0		92.7	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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**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 1924053 - Purge and Trap EPA 5030A**

**Blank (1924053-BLK1)**

Prepared: 06/14/19 0 Analyzed: 06/15/19 0

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.22		"	8.00		103	50-150			

**LCS (1924053-BS2)**

Prepared: 06/14/19 0 Analyzed: 06/15/19 0

Gasoline Range Organics (C6-C10)	48.2	20.0	mg/kg	50.0		96.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.12		"	8.00		101	50-150			

**Matrix Spike (1924053-MS2)**

Source: P906063-01

Prepared: 06/14/19 0 Analyzed: 06/15/19 1

Gasoline Range Organics (C6-C10)	121	20.0	mg/kg	50.0	65.8	110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.29		"	8.00		104	50-150			

**Matrix Spike Dup (1924053-MSD2)**

Source: P906063-01

Prepared: 06/14/19 0 Analyzed: 06/15/19 1

Gasoline Range Organics (C6-C10)	125	20.0	mg/kg	50.0	65.8	118	70-130	3.13	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.31		"	8.00		104	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/17/19 16:17
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**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 1924054 - Anion Extraction EPA 300.0/9056A**

**Blank (1924054-BLK1)**

Prepared & Analyzed: 06/14/19 1

Chloride	ND	20.0	mg/kg							
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**LCS (1924054-BS1)**

Prepared & Analyzed: 06/14/19 1

Chloride	256	20.0	mg/kg	250	16000	102	90-110			
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**Matrix Spike (1924054-MS1)**

Source: P906063-01

Prepared & Analyzed: 06/14/19 1

Chloride	16800	100	mg/kg	250	16000	308	80-120			SPK2
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**Matrix Spike Dup (1924054-MSD1)**

Source: P906063-01

Prepared & Analyzed: 06/14/19 1

Chloride	16400	100	mg/kg	250	16000	158	80-120	2.27	20	SPK2
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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: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/17/19 16:17

### Notes and Definitions

- SPK2 The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to native analyte concentration at 4 times or greater than the spike concentration.
- 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: 6/17/2019

Job Number: 03143-0424

Work Order: P906069

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 6/20/19

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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 14:49
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-3	P906069-01A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.
TSP-4	P906069-02A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.
TSP-5	P906069-03A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.
TSP-6	P906069-04A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.
TSP-7	P906069-05A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.
TSP-8	P906069-06A	Soil	06/17/19	06/17/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 14:49
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**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 1925004 - Purge and Trap EPA 5030A**

**Blank (1925004-BLK1)**

Prepared: 06/17/19 1 Analyzed: 06/19/19 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 7.88 " 8.00 98.5 50-150

**LCS (1925004-BS1)**

Prepared: 06/17/19 1 Analyzed: 06/19/19 2

Benzene	4.64	0.0250	mg/kg	5.00		92.9	70-130			
Toluene	5.02	0.0250	"	5.00		100	70-130			
Ethylbenzene	4.98	0.0250	"	5.00		99.7	70-130			
p,m-Xylene	10.2	0.0500	"	10.0		102	70-130			
o-Xylene	4.97	0.0250	"	5.00		99.5	70-130			
Total Xylenes	15.2	0.0250	"	15.0		101	70-130			

Surrogate: 4-Bromochlorobenzene-PID 7.91 " 8.00 98.9 50-150

**Matrix Spike (1925004-MS1)**

Source: P906069-01

Prepared: 06/17/19 1 Analyzed: 06/20/19 0

Benzene	4.51	0.0250	mg/kg	5.00	ND	90.3	54.3-133			
Toluene	4.84	0.0250	"	5.00	ND	96.7	61.4-130			
Ethylbenzene	4.93	0.0250	"	5.00	ND	98.5	61.4-133			
p,m-Xylene	10.3	0.0500	"	10.0	0.170	101	63.3-131			
o-Xylene	5.00	0.0250	"	5.00	0.0570	98.8	63.3-131			
Total Xylenes	15.3	0.0250	"	15.0	0.227	101	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.00 " 8.00 100 50-150

**Matrix Spike Dup (1925004-MSD1)**

Source: P906069-01

Prepared: 06/17/19 1 Analyzed: 06/20/19 0

Benzene	4.54	0.0250	mg/kg	5.00	ND	90.8	54.3-133	0.519	20	
Toluene	4.91	0.0250	"	5.00	ND	98.3	61.4-130	1.60	20	
Ethylbenzene	4.91	0.0250	"	5.00	ND	98.1	61.4-133	0.378	20	
p,m-Xylene	10.1	0.0500	"	10.0	0.170	99.6	63.3-131	1.87	20	
o-Xylene	4.92	0.0250	"	5.00	0.0570	97.3	63.3-131	1.48	20	
Total Xylenes	15.0	0.0250	"	15.0	0.227	98.8	63.3-131	1.74	20	

Surrogate: 4-Bromochlorobenzene-PID 7.95 " 8.00 99.4 50-150

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 14:49
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**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 1925007 - DRO Extraction EPA 3570**

**Blank (1925007-BLK1)**

Prepared: 06/18/19 0 Analyzed: 06/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	<i>49.8</i>		<i>"</i>	<i>50.0</i>		<i>99.7</i>	<i>50-200</i>			

**LCS (1925007-BS1)**

Prepared: 06/18/19 0 Analyzed: 06/18/19 1

Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500		87.6	38-132			
<i>Surrogate: n-Nonane</i>	<i>48.9</i>		<i>"</i>	<i>50.0</i>		<i>97.8</i>	<i>50-200</i>			

**Matrix Spike (1925007-MS1)**

**Source: P906069-01**

Prepared: 06/18/19 0 Analyzed: 06/19/19 0

Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500	ND	95.5	38-132			
<i>Surrogate: n-Nonane</i>	<i>50.7</i>		<i>"</i>	<i>50.0</i>		<i>101</i>	<i>50-200</i>			

**Matrix Spike Dup (1925007-MSD1)**

**Source: P906069-01**

Prepared: 06/18/19 0 Analyzed: 06/19/19 0

Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500	ND	96.3	38-132	0.811	20	
<i>Surrogate: n-Nonane</i>	<i>49.4</i>		<i>"</i>	<i>50.0</i>		<i>98.8</i>	<i>50-200</i>			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	Reported: 06/20/19 14:49
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**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 1925004 - Purge and Trap EPA 5030A**

**Blank (1925004-BLK1)**

Prepared: 06/17/19 1 Analyzed: 06/19/19 2

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.30		"	8.00		104	50-150			

**LCS (1925004-BS2)**

Prepared: 06/17/19 1 Analyzed: 06/19/19 2

Gasoline Range Organics (C6-C10)	56.1	20.0	mg/kg	50.0		112	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.23		"	8.00		103	50-150			

**Matrix Spike (1925004-MS2)**

Source: P906069-01

Prepared: 06/17/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	76.3	20.0	mg/kg	50.0	ND	153	70-130			SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.85		"	8.00		111	50-150			

**Matrix Spike Dup (1925004-MSD2)**

Source: P906069-01

Prepared: 06/17/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	63.2	20.0	mg/kg	50.0	ND	126	70-130	18.8	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.44		"	8.00		106	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 14:49
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**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 1925003 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1925003-BLK1)</b>				Prepared & Analyzed: 06/17/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1925003-BS1)</b>				Prepared & Analyzed: 06/17/19 1						
Chloride	252	20.0	mg/kg	250		101	90-110			
<b>Matrix Spike (1925003-MS1)</b>				Source: P906038-01 Prepared & Analyzed: 06/17/19 1						
Chloride	817	20.0	mg/kg	250	594	89.0	80-120			
<b>Matrix Spike Dup (1925003-MSD1)</b>				Source: P906038-01 Prepared & Analyzed: 06/17/19 1						
Chloride	805	20.0	mg/kg	250	594	84.6	80-120	1.36	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: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/20/19 14:49

### Notes and Definitions

SPK1 The spike recovery is outside of quality 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: 6/18/2019

Job Number: 03143-0424

Work Order: P906078

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 6/20/19

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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-9	P906078-01A	Soil	06/18/19	06/18/19	Glass Jar, 4 oz.
TSP-10	P906078-02A	Soil	06/18/19	06/18/19	Glass Jar, 4 oz.
TSP-11	P906078-03A	Soil	06/18/19	06/18/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	Reported: 06/20/19 15:19
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**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 1925013 - Purge and Trap EPA 5030A**

**Blank (1925013-BLK1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.01		"	8.00		100	50-150			

**LCS (1925013-BS1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	3.95	0.0250	mg/kg	5.00		79.0	70-130			
Toluene	4.38	0.0250	"	5.00		87.6	70-130			
Ethylbenzene	4.40	0.0250	"	5.00		87.9	70-130			
p,m-Xylene	9.05	0.0500	"	10.0		90.5	70-130			
o-Xylene	4.42	0.0250	"	5.00		88.3	70-130			
Total Xylenes	13.5	0.0250	"	15.0		89.8	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.09		"	8.00		101	50-150			

**Matrix Spike (1925013-MS1)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	4.03	0.0250	mg/kg	5.00	ND	80.7	54.3-133			
Toluene	4.47	0.0250	"	5.00	ND	89.4	61.4-130			
Ethylbenzene	4.51	0.0250	"	5.00	ND	90.3	61.4-133			
p,m-Xylene	9.27	0.0500	"	10.0	0.0661	92.0	63.3-131			
o-Xylene	4.52	0.0250	"	5.00	0.0289	89.8	63.3-131			
Total Xylenes	13.8	0.0250	"	15.0	0.0950	91.3	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.12		"	8.00		102	50-150			

**Matrix Spike Dup (1925013-MSD1)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	3.74	0.0250	mg/kg	5.00	ND	74.9	54.3-133	7.46	20	
Toluene	4.13	0.0250	"	5.00	ND	82.5	61.4-130	8.00	20	
Ethylbenzene	4.22	0.0250	"	5.00	ND	84.4	61.4-133	6.75	20	
p,m-Xylene	8.72	0.0500	"	10.0	0.0661	86.6	63.3-131	6.03	20	
o-Xylene	4.27	0.0250	"	5.00	0.0289	84.9	63.3-131	5.64	20	
Total Xylenes	13.0	0.0250	"	15.0	0.0950	86.0	63.3-131	5.90	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.08		"	8.00		101	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**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 1925007 - DRO Extraction EPA 3570**

**Blank (1925007-BLK1)**

Prepared: 06/18/19 0 Analyzed: 06/18/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	49.8		"	50.0		99.7	50-200			

**LCS (1925007-BS1)**

Prepared: 06/18/19 0 Analyzed: 06/18/19 1

Diesel Range Organics (C10-C28)	438	25.0	mg/kg	500		87.6	38-132			
<i>Surrogate: n-Nonane</i>	48.9		"	50.0		97.8	50-200			

**Matrix Spike (1925007-MS1)**

**Source: P906069-01**

Prepared: 06/18/19 0 Analyzed: 06/19/19 0

Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500	ND	95.5	38-132			
<i>Surrogate: n-Nonane</i>	50.7		"	50.0		101	50-200			

**Matrix Spike Dup (1925007-MSD1)**

**Source: P906069-01**

Prepared: 06/18/19 0 Analyzed: 06/19/19 0

Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500	ND	96.3	38-132	0.811	20	
<i>Surrogate: n-Nonane</i>	49.4		"	50.0		98.8	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**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 1925013 - Purge and Trap EPA 5030A**

**Blank (1925013-BLK1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

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

**LCS (1925013-BS2)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		"	8.00		102	50-150			

**Matrix Spike (1925013-MS2)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	56.3	20.0	mg/kg	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		104	50-150			

**Matrix Spike Dup (1925013-MSD2)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	56.8	20.0	mg/kg	50.0	ND	114	70-130	0.969	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		"	8.00		104	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/20/19 15:19
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**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 1925010 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1925010-BLK1)</b>				Prepared & Analyzed: 06/18/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1925010-BS1)</b>				Prepared & Analyzed: 06/18/19 1						
Chloride	252	20.0	mg/kg	250		101	90-110			
<b>Matrix Spike (1925010-MS1)</b>				Source: P906049-01 Prepared: 06/18/19 1 Analyzed: 06/18/19 2						
Chloride	257	20.0	mg/kg	250	ND	103	80-120			
<b>Matrix Spike Dup (1925010-MSD1)</b>				Source: P906049-01 Prepared: 06/18/19 1 Analyzed: 06/18/19 2						
Chloride	257	20.0	mg/kg	250	ND	103	80-120	0.0740	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: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
06/20/19 15:19

### 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: 6/19/2019

Job Number: 03143-0424

Work Order: P906084

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 6/21/19

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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-12	P906084-01A	Soil	06/19/19	06/19/19	Glass Jar, 4 oz.
TSP-13	P906084-02A	Soil	06/19/19	06/19/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**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 1925013 - Purge and Trap EPA 5030A**

**Blank (1925013-BLK1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.01		"	8.00		100	50-150			

**LCS (1925013-BS1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	3.95	0.0250	mg/kg	5.00		79.0	70-130			
Toluene	4.38	0.0250	"	5.00		87.6	70-130			
Ethylbenzene	4.40	0.0250	"	5.00		87.9	70-130			
p,m-Xylene	9.05	0.0500	"	10.0		90.5	70-130			
o-Xylene	4.42	0.0250	"	5.00		88.3	70-130			
Total Xylenes	13.5	0.0250	"	15.0		89.8	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.09		"	8.00		101	50-150			

**Matrix Spike (1925013-MS1)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	4.03	0.0250	mg/kg	5.00	ND	80.7	54.3-133			
Toluene	4.47	0.0250	"	5.00	ND	89.4	61.4-130			
Ethylbenzene	4.51	0.0250	"	5.00	ND	90.3	61.4-133			
p,m-Xylene	9.27	0.0500	"	10.0	0.0661	92.0	63.3-131			
o-Xylene	4.52	0.0250	"	5.00	0.0289	89.8	63.3-131			
Total Xylenes	13.8	0.0250	"	15.0	0.0950	91.3	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.12		"	8.00		102	50-150			

**Matrix Spike Dup (1925013-MSD1)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Benzene	3.74	0.0250	mg/kg	5.00	ND	74.9	54.3-133	7.46	20	
Toluene	4.13	0.0250	"	5.00	ND	82.5	61.4-130	8.00	20	
Ethylbenzene	4.22	0.0250	"	5.00	ND	84.4	61.4-133	6.75	20	
p,m-Xylene	8.72	0.0500	"	10.0	0.0661	86.6	63.3-131	6.03	20	
o-Xylene	4.27	0.0250	"	5.00	0.0289	84.9	63.3-131	5.64	20	
Total Xylenes	13.0	0.0250	"	15.0	0.0950	86.0	63.3-131	5.90	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.08		"	8.00		101	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**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 1925030 - DRO Extraction EPA 3570**

**Blank (1925030-BLK1)**

Prepared: 06/19/19 1 Analyzed: 06/20/19 2

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

**LCS (1925030-BS1)**

Prepared: 06/19/19 1 Analyzed: 06/20/19 2

Diesel Range Organics (C10-C28)	453	25.0	mg/kg	500		90.5	38-132			
<i>Surrogate: n-Nonane</i>	50.5		"	50.0		101	50-200			

**Matrix Spike (1925030-MS1)**

Source: P906084-01

Prepared: 06/19/19 1 Analyzed: 06/20/19 2

Diesel Range Organics (C10-C28)	484	25.0	mg/kg	500	79.4	80.9	38-132			
<i>Surrogate: n-Nonane</i>	51.9		"	50.0		104	50-200			

**Matrix Spike Dup (1925030-MSD1)**

Source: P906084-01

Prepared: 06/19/19 1 Analyzed: 06/20/19 2

Diesel Range Organics (C10-C28)	482	25.0	mg/kg	500	79.4	80.6	38-132	0.404	20	
<i>Surrogate: n-Nonane</i>	50.7		"	50.0		101	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**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 1925013 - Purge and Trap EPA 5030A**

**Blank (1925013-BLK1)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

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

**LCS (1925013-BS2)**

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	46.8	20.0	mg/kg	50.0		93.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.14		"	8.00		102	50-150			

**Matrix Spike (1925013-MS2)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	56.3	20.0	mg/kg	50.0	ND	113	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.28		"	8.00		104	50-150			

**Matrix Spike Dup (1925013-MSD2)**

Source: P906078-01

Prepared: 06/18/19 1 Analyzed: 06/20/19 0

Gasoline Range Organics (C6-C10)	56.8	20.0	mg/kg	50.0	ND	114	70-130	0.969	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.36		"	8.00		104	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/21/19 13:50
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**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 1925028 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1925028-BLK1)</b>				Prepared: 06/19/19 1 Analyzed: 06/20/19 0						
Chloride	ND	20.0	mg/kg							
<b>LCS (1925028-BS1)</b>				Prepared: 06/19/19 1 Analyzed: 06/20/19 0						
Chloride	268	20.0	mg/kg	250		107	90-110			
<b>Matrix Spike (1925028-MS1)</b>				Source: P906086-01 Prepared: 06/19/19 1 Analyzed: 06/20/19 1						
Chloride	265	20.0	mg/kg	250	ND	106	80-120			
<b>Matrix Spike Dup (1925028-MSD1)</b>				Source: P906086-01 Prepared: 06/19/19 1 Analyzed: 06/20/19 1						
Chloride	267	20.0	mg/kg	250	ND	107	80-120	0.644	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.	Project Name:	Day B 2B	<b>Reported:</b> 06/21/19 13:50
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

**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: 6/21/2019

Job Number: 03143-0424

Work Order: P906095

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 6/25/19

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.	Project Name:	Day B 2B	<b>Reported:</b> 06/25/19 16:17
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-12R	P906095-01A	Soil	06/21/19	06/21/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	Reported: 06/25/19 16:17
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**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 1925039 - Purge and Trap EPA 5030A**

**Blank (1925039-BLK1)**

Prepared: 06/21/19 0 Analyzed: 06/21/19 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.79		"	8.00		97.4	50-150			

**LCS (1925039-BS1)**

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Benzene	4.72	0.0250	mg/kg	5.00		94.5	70-130			
Toluene	5.10	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.07	0.0250	"	5.00		101	70-130			
p,m-Xylene	10.4	0.0500	"	10.0		104	70-130			
o-Xylene	5.04	0.0250	"	5.00		101	70-130			
Total Xylenes	15.4	0.0250	"	15.0		103	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.89		"	8.00		98.6	50-150			

**Matrix Spike (1925039-MS1)**

Source: P906095-01

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Benzene	4.42	0.0250	mg/kg	5.00	ND	88.4	54.3-133			
Toluene	4.73	0.0250	"	5.00	ND	94.6	61.4-130			
Ethylbenzene	4.79	0.0250	"	5.00	ND	95.9	61.4-133			
p,m-Xylene	9.91	0.0500	"	10.0	0.225	96.9	63.3-131			
o-Xylene	4.88	0.0250	"	5.00	0.100	95.5	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	0.325	96.4	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.92		"	8.00		99.0	50-150			

**Matrix Spike Dup (1925039-MSD1)**

Source: P906095-01

Prepared: 06/21/19 0 Analyzed: 06/21/19 2

Benzene	4.60	0.0250	mg/kg	5.00	ND	92.0	54.3-133	3.96	20	
Toluene	4.92	0.0250	"	5.00	ND	98.4	61.4-130	3.90	20	
Ethylbenzene	4.98	0.0250	"	5.00	ND	99.6	61.4-133	3.79	20	
p,m-Xylene	10.3	0.0500	"	10.0	0.225	101	63.3-131	3.69	20	
o-Xylene	5.03	0.0250	"	5.00	0.100	98.6	63.3-131	3.12	20	
Total Xylenes	15.3	0.0250	"	15.0	0.325	99.9	63.3-131	3.50	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	7.93		"	8.00		99.1	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/25/19 16:17
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**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 1925041 - DRO Extraction EPA 3570**

**Blank (1925041-BLK1)**

Prepared & Analyzed: 06/21/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
<i>Surrogate: n-Nonane</i>	49.2		"	50.0		98.3	50-200			

**LCS (1925041-BS1)**

Prepared & Analyzed: 06/21/19 1

Diesel Range Organics (C10-C28)	437	25.0	mg/kg	500		87.4	38-132			
<i>Surrogate: n-Nonane</i>	47.6		"	50.0		95.1	50-200			

**Matrix Spike (1925041-MS1)**

Source: P906095-01

Prepared & Analyzed: 06/21/19 1

Diesel Range Organics (C10-C28)	485	25.0	mg/kg	500	33.4	90.3	38-132			
<i>Surrogate: n-Nonane</i>	48.9		"	50.0		97.8	50-200			

**Matrix Spike Dup (1925041-MSD1)**

Source: P906095-01

Prepared & Analyzed: 06/21/19 1

Diesel Range Organics (C10-C28)	492	25.0	mg/kg	500	33.4	91.8	38-132	1.55	20	
<i>Surrogate: n-Nonane</i>	50.0		"	50.0		100	50-200			

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

Project Name: Day B 2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

Reported:  
06/25/19 16:17

### 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 1925039 - Purge and Trap EPA 5030A

##### Blank (1925039-BLK1)

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.04		"	8.00		101	50-150			

##### LCS (1925039-BS2)

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Gasoline Range Organics (C6-C10)	53.7	20.0	mg/kg	50.0		107	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.18		"	8.00		102	50-150			

##### Matrix Spike (1925039-MS2)

Source: P906095-01

Prepared: 06/21/19 0 Analyzed: 06/21/19 2

Gasoline Range Organics (C6-C10)	68.1	20.0	mg/kg	50.0	ND	136	70-130			SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.41		"	8.00		105	50-150			

##### Matrix Spike Dup (1925039-MSD2)

Source: P906095-01

Prepared: 06/21/19 0 Analyzed: 06/21/19 2

Gasoline Range Organics (C6-C10)	66.0	20.0	mg/kg	50.0	ND	132	70-130	3.17	20	SPK1
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.39		"	8.00		105	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 06/25/19 16:17
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**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 1925040 - Anion Extraction EPA 300.0/9056A**

**Blank (1925040-BLK1)**

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Chloride	ND	20.0	mg/kg							
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**LCS (1925040-BS1)**

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Chloride	252	20.0	mg/kg	250		101	90-110			
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**Matrix Spike (1925040-MS1)**

**Source: P906094-01**

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Chloride	263	20.0	mg/kg	250	ND	105	80-120			
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**Matrix Spike Dup (1925040-MSD1)**

**Source: P906094-01**

Prepared: 06/21/19 0 Analyzed: 06/21/19 1

Chloride	263	20.0	mg/kg	250	ND	105	80-120	0.0608	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:	Day B 2B	<b>Reported:</b> 06/25/19 16:17
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

**Notes and Definitions**

- SPK1 The spike recovery is outside of quality 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: 7/26/2019

Job Number: 03143-0424

Work Order: P907111

Project Name/Location: Day B #2B

Report Reviewed By:



Date: 8/5/19

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: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP-VZ #1	P907111-01A	Soil	07/26/19	07/26/19	Glass Jar, 4 oz.
TSP-VZ #2	P907111-02A	Soil	07/26/19	07/26/19	Glass Jar, 4 oz.
TSP-VZ #3	P907111-03A	Soil	07/26/19	07/26/19	Glass Jar, 4 oz.
TSP-VZ #4	P907111-04A	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: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	Reported: 08/05/19 13:38
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**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 1931033 - Purge and Trap EPA 5030A**

**Blank (1931033-BLK1)**

Prepared: 07/31/19 0 Analyzed: 08/02/19 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	"							
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.53		"	8.00		107	50-150			

**LCS (1931033-BS1)**

Prepared: 07/31/19 0 Analyzed: 08/02/19 1

Benzene	3.93	0.0250	mg/kg	5.00		78.6	70-130			
Toluene	4.60	0.0250	"	5.00		92.0	70-130			
Ethylbenzene	4.76	0.0250	"	5.00		95.2	70-130			
p,m-Xylene	9.78	0.0500	"	10.0		97.8	70-130			
o-Xylene	4.76	0.0250	"	5.00		95.1	70-130			
Total Xylenes	14.5	0.0250	"	15.0		96.9	70-130			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.60		"	8.00		108	50-150			

**Matrix Spike (1931033-MS1)**

Source: P907110-04

Prepared: 07/31/19 0 Analyzed: 08/02/19 2

Benzene	3.96	0.0250	mg/kg	5.00	ND	79.1	54.3-133			
Toluene	4.68	0.0250	"	5.00	ND	93.5	61.4-130			
Ethylbenzene	4.85	0.0250	"	5.00	ND	96.9	61.4-133			
p,m-Xylene	9.94	0.0500	"	10.0	ND	99.4	63.3-131			
o-Xylene	4.86	0.0250	"	5.00	ND	97.2	63.3-131			
Total Xylenes	14.8	0.0250	"	15.0	ND	98.7	63.3-131			
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.55		"	8.00		107	50-150			

**Matrix Spike Dup (1931033-MSD1)**

Source: P907110-04

Prepared: 07/31/19 0 Analyzed: 08/02/19 2

Benzene	3.91	0.0250	mg/kg	5.00	ND	78.3	54.3-133	1.05	20	
Toluene	4.66	0.0250	"	5.00	ND	93.2	61.4-130	0.317	20	
Ethylbenzene	4.85	0.0250	"	5.00	ND	96.9	61.4-133	0.0113	20	
p,m-Xylene	9.95	0.0500	"	10.0	ND	99.5	63.3-131	0.0840	20	
o-Xylene	4.87	0.0250	"	5.00	ND	97.4	63.3-131	0.146	20	
Total Xylenes	14.8	0.0250	"	15.0	ND	98.8	63.3-131	0.104	20	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	8.54		"	8.00		107	50-150			

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5796 Highway 64, Farmington, NM 87401

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24 Hour Emergency Response Phone (800) 362-1879

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**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 1931038 - DRO Extraction EPA 3570**

**Blank (1931038-BLK1)**

Prepared: 07/31/19 1 Analyzed: 08/01/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	37.8		"	50.0		75.6	50-200			

**LCS (1931038-BS1)**

Prepared: 07/31/19 1 Analyzed: 08/01/19 1

Diesel Range Organics (C10-C28)	476	25.0	mg/kg	500		95.1	38-132			
Surrogate: n-Nonane	38.4		"	50.0		76.7	50-200			

**Matrix Spike (1931038-MS1)**

Source: P907096-01

Prepared: 07/31/19 1 Analyzed: 08/01/19 1

Diesel Range Organics (C10-C28)	884	25.0	mg/kg	500	283	120	38-132			
Surrogate: n-Nonane	34.5		"	50.0		69.0	50-200			

**Matrix Spike Dup (1931038-MSD1)**

Source: P907096-01

Prepared: 07/31/19 1 Analyzed: 08/01/19 1

Diesel Range Organics (C10-C28)	846	25.0	mg/kg	500	283	112	38-132	4.41	20	
Surrogate: n-Nonane	40.0		"	50.0		80.0	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**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 1931033 - Purge and Trap EPA 5030A**

**Blank (1931033-BLK1)**

Prepared: 07/31/19 0 Analyzed: 08/02/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		"	8.00		94.0	50-150			

**LCS (1931033-BS2)**

Prepared: 07/31/19 0 Analyzed: 08/02/19 2

Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0		93.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.71		"	8.00		96.4	50-150			

**Matrix Spike (1931033-MS2)**

Source: P907110-04

Prepared: 07/31/19 0 Analyzed: 08/02/19 2

Gasoline Range Organics (C6-C10)	49.5	20.0	mg/kg	50.0	ND	99.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		"	8.00		97.6	50-150			

**Matrix Spike Dup (1931033-MSD2)**

Source: P907110-04

Prepared: 07/31/19 0 Analyzed: 08/02/19 2

Gasoline Range Organics (C6-C10)	46.2	20.0	mg/kg	50.0	ND	92.5	70-130	6.84	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	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: Day B #2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 08/05/19 13:38
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**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 1931046 - Anion Extraction EPA 300.0/9056A**

**Blank (1931046-BLK1)**

Prepared: 08/01/19 1 Analyzed: 08/01/19 2

Chloride	ND	20.0	mg/kg							
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**LCS (1931046-BS1)**

Prepared: 08/01/19 1 Analyzed: 08/01/19 2

Chloride	251	20.0	mg/kg	250		100	90-110			
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**Matrix Spike (1931046-MS1)**

Source: P907107-01

Prepared: 08/01/19 1 Analyzed: 08/02/19 0

Chloride	279	20.0	mg/kg	250	37.9	96.6	80-120			
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**Matrix Spike Dup (1931046-MSD1)**

Source: P907107-01

Prepared: 08/01/19 1 Analyzed: 08/02/19 0

Chloride	275	20.0	mg/kg	250	37.9	95.0	80-120	1.43	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: Day B #2B  
Project Number: 03143-0424  
Project Manager: Steve Moskal

**Reported:**  
08/05/19 13:38

### 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: 9/10/2019

Job Number: 03143-0424

Work Order: P909024

Project Name/Location: Day B 2B

Report Reviewed By:



Date: 9/17/19

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, 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: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 09/17/19 10:22
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### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
TSP- VZ#3(2)	P909024-01A	Soil	09/10/19	09/10/19	Glass Jar, 4 oz.

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 09/17/19 10:22
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**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 1937016 - Purge and Trap EPA 5030A**

**Blank (1937016-BLK1)**

Prepared: 09/10/19 1 Analyzed: 09/11/19 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 8.97 " 8.00 112 50-150

**LCS (1937016-BS1)**

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Benzene	4.41	0.0250	mg/kg	5.00		88.2	70-130			
Toluene	4.52	0.0250	"	5.00		90.4	70-130			
Ethylbenzene	4.60	0.0250	"	5.00		92.1	70-130			
p,m-Xylene	9.36	0.0500	"	10.0		93.6	70-130			
o-Xylene	4.59	0.0250	"	5.00		91.8	70-130			
Total Xylenes	13.9	0.0250	"	15.0		93.0	70-130			

Surrogate: 4-Bromochlorobenzene-PID 9.10 " 8.00 114 50-150

**Matrix Spike (1937016-MS1)**

Source: P909026-01

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Benzene	4.55	0.0250	mg/kg	5.00	ND	90.9	54.3-133			
Toluene	4.65	0.0250	"	5.00	ND	93.1	61.4-130			
Ethylbenzene	4.75	0.0250	"	5.00	ND	95.1	61.4-133			
p,m-Xylene	9.66	0.0500	"	10.0	ND	96.6	63.3-131			
o-Xylene	4.68	0.0250	"	5.00	ND	93.6	63.3-131			
Total Xylenes	14.3	0.0250	"	15.0	ND	95.6	63.3-131			

Surrogate: 4-Bromochlorobenzene-PID 8.62 " 8.00 108 50-150

**Matrix Spike Dup (1937016-MSD1)**

Source: P909026-01

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Benzene	4.28	0.0250	mg/kg	5.00	ND	85.7	54.3-133	5.93	20	
Toluene	4.38	0.0250	"	5.00	ND	87.6	61.4-130	6.06	20	
Ethylbenzene	4.48	0.0250	"	5.00	ND	89.5	61.4-133	5.98	20	
p,m-Xylene	9.11	0.0500	"	10.0	ND	91.1	63.3-131	5.81	20	
o-Xylene	4.42	0.0250	"	5.00	ND	88.3	63.3-131	5.84	20	
Total Xylenes	13.5	0.0250	"	15.0	ND	90.2	63.3-131	5.82	20	

Surrogate: 4-Bromochlorobenzene-PID 8.41 " 8.00 105 50-150

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 09/17/19 10:22
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**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 1937015 - DRO Extraction EPA 3570**

**Blank (1937015-BLK1)**

Prepared: 09/10/19 1 Analyzed: 09/12/19 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	53.5		"	50.0		107	50-200			

**LCS (1937015-BS1)**

Prepared: 09/10/19 1 Analyzed: 09/12/19 1

Diesel Range Organics (C10-C28)	474	25.0	mg/kg	500		94.9	38-132			
Surrogate: n-Nonane	53.8		"	50.0		108	50-200			

**Matrix Spike (1937015-MS1)**

Source: P909021-09

Prepared: 09/10/19 1 Analyzed: 09/12/19 1

Diesel Range Organics (C10-C28)	457	25.0	mg/kg	500	ND	91.5	38-132			
Surrogate: n-Nonane	52.8		"	50.0		106	50-200			

**Matrix Spike Dup (1937015-MSD1)**

Source: P909021-09

Prepared: 09/10/19 1 Analyzed: 09/12/19 1

Diesel Range Organics (C10-C28)	484	25.0	mg/kg	500	ND	96.8	38-132	5.66	20	
Surrogate: n-Nonane	54.3		"	50.0		109	50-200			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 09/17/19 10:22
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**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 1937016 - Purge and Trap EPA 5030A**

**Blank (1937016-BLK1)**

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		"	8.00		96.5	50-150			

**LCS (1937016-BS2)**

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Gasoline Range Organics (C6-C10)	49.9	20.0	mg/kg	50.0		99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.66		"	8.00		95.8	50-150			

**Matrix Spike (1937016-MS2)**

Source: P909026-01

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Gasoline Range Organics (C6-C10)	48.0	20.0	mg/kg	50.0	ND	96.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.63		"	8.00		95.4	50-150			

**Matrix Spike Dup (1937016-MSD2)**

Source: P909026-01

Prepared: 09/10/19 1 Analyzed: 09/11/19 1

Gasoline Range Organics (C6-C10)	45.8	20.0	mg/kg	50.0	ND	91.6	70-130	4.72	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.57		"	8.00		94.6	50-150			

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BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Day B 2B Project Number: 03143-0424 Project Manager: Steve Moskal	<b>Reported:</b> 09/17/19 10:22
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**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 1937032 - Anion Extraction EPA 300.0/9056A**

<b>Blank (1937032-BLK1)</b>				Prepared: 09/13/19 0 Analyzed: 09/13/19 1						
Chloride	ND	20.0	mg/kg							
<b>LCS (1937032-BS1)</b>				Prepared: 09/13/19 0 Analyzed: 09/13/19 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
<b>Matrix Spike (1937032-MS1)</b>				Source: P909024-01 Prepared: 09/13/19 0 Analyzed: 09/13/19 1						
Chloride	258	20.0	mg/kg	250	ND	103	80-120			
<b>Matrix Spike Dup (1937032-MSD1)</b>				Source: P909024-01 Prepared: 09/13/19 0 Analyzed: 09/13/19 1						
Chloride	255	20.0	mg/kg	250	ND	102	80-120	0.989	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.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	<b>Reported:</b>
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	09/17/19 10:22

### Notes and Definitions

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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