

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>
<u>OCD Only</u> Received by: _____ Date: _____	

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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>>100</u> (ft bgs)
Did this release impact groundwater or surface water?	<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 not 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>Characterization Report Checklist: <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"><input type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.<input type="checkbox"/> Field data<input type="checkbox"/> Data table of soil contaminant concentration data<input type="checkbox"/> Depth to water determination<input type="checkbox"/> Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release<input type="checkbox"/> Boring or excavation logs<input type="checkbox"/> Photographs including date and GIS information<input type="checkbox"/> Topographic/Aerial maps<input type="checkbox"/> Laboratory data including chain of custody
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If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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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: _____

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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.

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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	
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Facility ID	
Application ID	

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

<u>December 13, 2018</u>	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.).
<u>December 17, 2018</u>	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. <u>Official date of impact discovery. (see Release Investigation Section).</u>
<u>December 19, 2018</u>	BPX submitted Form C-141 Initial Report to the New Mexico Oil Conservation Division (NMOCD). NMOCD received on 12/26/2018.
<u>January 2, 2019</u>	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.
<u>June 10, 2019</u>	Initiated remediation via excavation and soil shredding.
<u>June 12, 2019</u>	Notification of initial closure sampling schedule submitted to NMOCD and BLM (<u>see June Email Correspondence within Site Remediation Section Section</u>).
<u>June 14, 2019</u>	Received closure soil sample laboratory report. <u>Summary table of results listed on following pages.</u>
<u>June 21, 2019</u>	Received final treated soil sample laboratory report. <u>Summary table of results listed on following pages.</u>
<u>June 28, 2019</u>	Completed excavation backfilling.
<u>July 22, 2019</u>	Notification of vadose zone sampling schedule submitted to NMOCD and BLM (<u>see July Email Correspondence within Vadose Zone Confirmation Section</u>).
<u>July 24, 2019</u>	Vadose zone sampling plan submitted to NMOCD via email. NMOCD approved on same day (<u>see July Email Correspondence within Vadose Zone Confirmation Section</u>).
<u>July 26, 2019</u>	Conducted initial vadose zone sampling of treated stockpile areas.
<u>September 10, 2019</u>	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.
<u>September 17, 2019</u>	Received 09/10/2019 vadose zone subsequent soil sample final laboratory report. <u>Summary table of results listed on following pages.</u>

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
NMOCD Site Closure Standards -					10	50				100	20,000

OVM – Organic Vapor Meter, ppm – parts per million, mg/Kg – milligram per kilogram, BTEX – benzene, toluene, ethylbenzene, total xylenes, TPH – Total Petroleum Hydrocarbons, GRO – Gasoline Range Organics, DRO – Diesel Range Organics, MRO or ORO – Motor Oil Range Organics, (-) – 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
NMOCD Site Closure Standards -					10	50				100	20,000

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
NMOCD Site Closure Standards -			10	50				100	20,000

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

RELEASE

INVESTIGATION

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 Deterio

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:
DISTANCE BEARING FROM WH:

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: ENVINOTEL

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OTM READING ppm
1) SAMPLE ID: 002	12/13/18	0840	LAB ANALYSIS	2848
2) SAMPLE ID: 022		0910	LAB ANALYSIS	2021
3) SAMPLE ID: 032		0912	LAB ANALYSIS	181
4) SAMPLE ID: 042		0914	LAB ANALYSIS	6.7
		0916	LAB ANALYSIS	12.5

5-pt Composite 02

SOIL DESCRIPTION:

SOIL TYPE: SAND (SILTY SAND) SILT / SILTY CLAY / CLAY / GRAVEL / OTHER:

SOIL COLOR: TAN

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE (FIRM) DENSE / VERY DENSE

MOISTURE: DRY (SLIGHTLY MOIST) / MOIST / WET / SATURATED / SUPER SATURATED

SAMPLE TYPE: GRAB / COMPOSITE # OF PTS. 5

DISCOLORATION/STAINING OBSERVED (YES/NO) EXPLANATION: oil color

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

HC ODOR DETECTED (YES/NO) EXPLANATION: Moderate/Strong

ANY AREAS DISPLAYING WETNESS: YES (NO) EXPLANATION:

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT (YES/NO) EXPLANATION: No Line Break @ Hummer Wagon

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

DEPTH TO GROUNDWATER: >100

NEAREST WATER SOURCE:

EXCAVATION ESTIMATION (Cubic Yards):

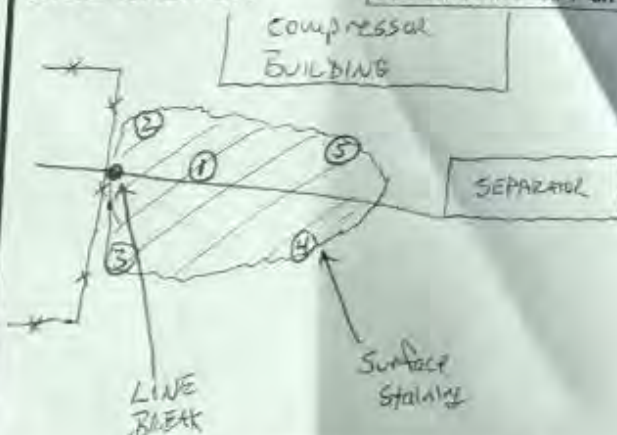
NEAREST SURFACE WATER: <300

NM000 TPH CLOSURE STD: 105

SITE SKETCH

BGT Located: off / on site

PLOT PLAN circle: attached



OVN CALIB READ = 100.2 (30) 12/13/18
OVN CALIB GAS = 100 (30) 12/13/18
TIME 0810 DATE 12/13/18

MISCELLANEOUS NOTES

WO:

PO #:

PK:

PJ #:

Permit date(s):

OGD Appr. date(s):

OGD ID: OVN - Organic Vapor Meter

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NOTES: BGT = BELOW GRADE TANK; ED = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; TH = TEST HOLE; -- APPROX; WH = WELL HEAD
T.B. = TANK BOTTOM; PBGT = 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

BEI 1005E-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

Reported:
 12/17/18 16:41

Release 5-Pt @2'
P812028-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

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	

Nonhalogenated Organics by 8015

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

Anions by 300.0/9056A

Chloride	ND	20.0	mg/kg	1	1850024	12/14/18	12/14/18	EPA 300.0/9056A	
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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: <u>BPX ENERGY</u>				Report Attention				Lab Use Only				TAT		EPA Program						
Project: <u>DAY B 2B</u>				Report due by: <u>DEC 14, 2018</u>				Lab WO#		Job Number		1D	3D	RCRA	CWA	SDW				
Project Manager: <u>STEVE MOSKAL</u>				Attention: <u>STEVE MOSKAL / JEFF BLAGG</u>				<u>P 812028</u>		<u>03443-0424</u>		<input checked="" type="checkbox"/>								
Address:				Address:				Analysis and Method										State		
City, State, Zip				City, State, Zip				DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1						
Phone: <u>505-330-9179</u>				Phone: <u>505-320-1183</u>																
Email: <u>steven.moskal@BPX.com</u>				Email: <u>jeffcblogg@aol.com</u>																
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number															
0916	12/13/2018	SOIL	1	RELEASE 5-pt @ 2'	1															

Additional Instructions:

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 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)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <input checked="" type="checkbox"/> Y / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4.0</u>
<u>Jeff Blagg</u>	12/13/2018	1028	<u>[Signature]</u>	12/13/18	1028	
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

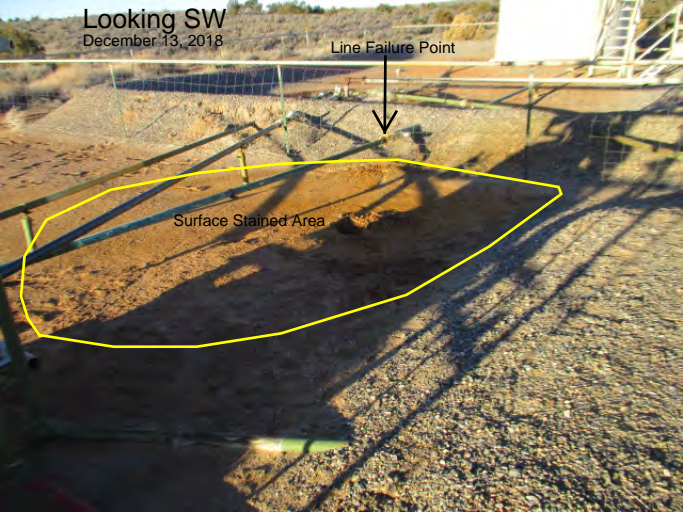
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above laboratory with this COC. The liability of the laboratory is limited to the amount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

Looking SW
December 13, 2018

Line Failure Point



Surface Stained Area



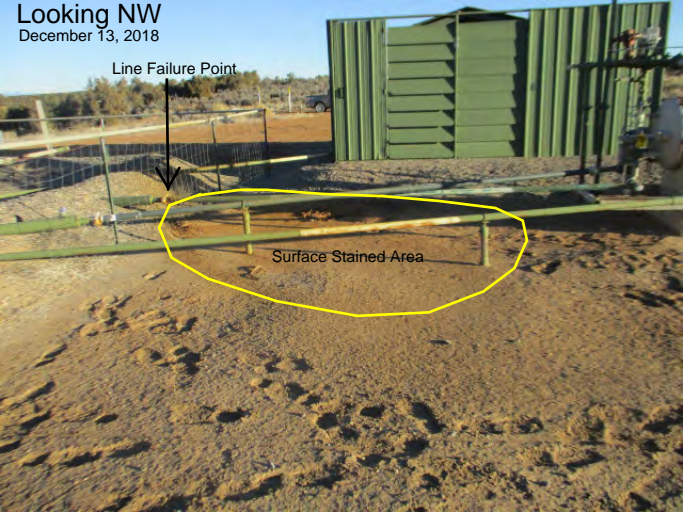
Looking NW

December 13, 2018

Line Failure Point



Surface Stained Area



SITE

REMEDIATION

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

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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

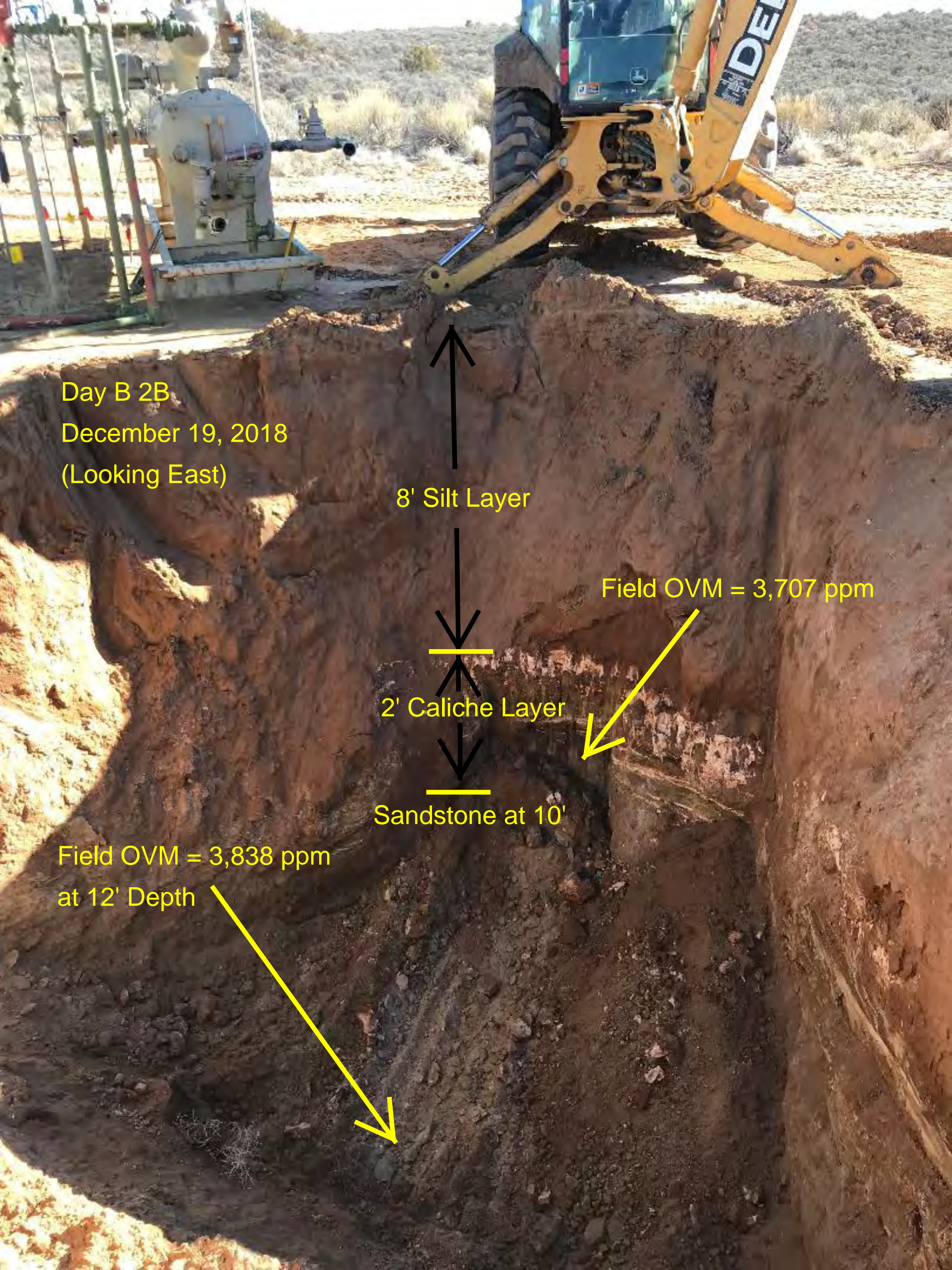
1199 Main Ave. | Suite 101

Durango | CO | 81301

Direct: 505.330.9179

steven.moskal@bpx.com

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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



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



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

All Sidewalls and Base
Impacted Below 8'

Day B 2B
June 13, 2019

Remedial Excavation

Day B 2B

15' N
30' W
29' Deep
30' E
15' S





North Base @ 29'

South Base @ 29'



North Sidewall

South Sidewall

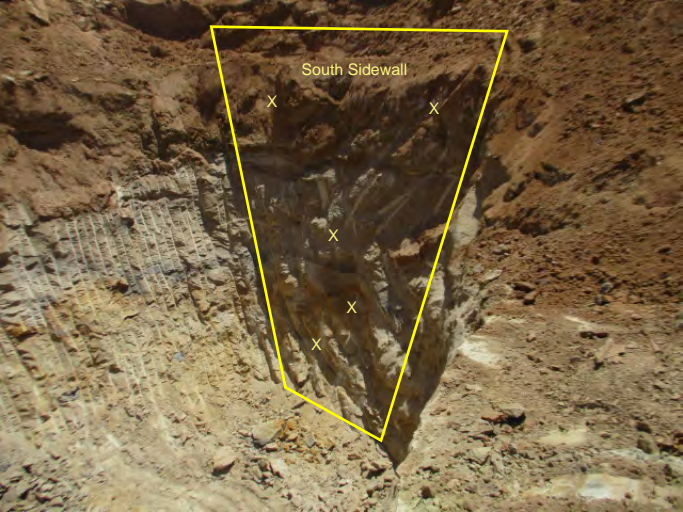
X

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)

X

X

X

X

X

West Sidewall (N. Half)

X

X

X

X

X



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

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>		99.3 %		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>		97.6 %		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>		99.7 %		50-150	1924042	06/13/19	06/14/19	EPA 8015D	

Anions by 300.0/9056A

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

Reported:
 06/14/19 13:33

North Base @ 29'
P906061-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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

Reported:
 06/14/19 13:33

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

Reported:
 06/14/19 13:33

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

Reported:
 06/14/19 13:33

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

Reported:
 06/14/19 13:33

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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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

North Wall
P906061-07 (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>		98.2 %		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>		98.8 %		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

Reported:
 06/14/19 13:33

South Wall
P906061-08 (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>		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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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 laboraotry is limited to the amount paid for on the report.	

TREATED SOIL

REMEDIATION

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

TSP-1
P906065-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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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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

TSP-2
P906065-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.0272	0.0250	mg/kg	1	1924053	06/14/19	06/14/19	EPA 8021B	
Total Xylenes	0.0272	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)	29.1	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	23.6	20.0	mg/kg	1	1924054	06/14/19	06/15/19	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:
 06/20/19 14:49

TSP-3
P906069-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.170	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.0570	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	0.227	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		97.4 %		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>		104 %		50-150	1925004	06/17/19	06/19/19	EPA 8015D	

Anions by 300.0/9056A

Chloride	23.2	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

Reported:
 06/20/19 14:49

TSP-4
P906069-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.375	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.101	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	0.476	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	21.1	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

Reported:
06/20/19 14:49

TSP-5
P906069-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Toluene	0.0565	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Ethylbenzene	0.0618	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
p,m-Xylene	0.939	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.396	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	1.33	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)	25.5	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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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

TSP-6
P906069-04 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.210	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.0584	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	0.269	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)	34.9	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

Reported:
 06/20/19 14:49

TSP-7
P906069-05 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.156	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.0618	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	0.218	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)	28.6	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

Reported:
 06/20/19 14:49

TSP-8
P906069-06 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.168	0.0500	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
o-Xylene	0.0577	0.0250	mg/kg	1	1925004	06/17/19	06/19/19	EPA 8021B	
Total Xylenes	0.225	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)	28.2	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

Reported:
 06/20/19 15:19

TSP-9
P906078-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.0661	0.0500	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
o-Xylene	0.0289	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Total Xylenes	0.0950	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)	25.3	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

Reported:
 06/20/19 15:19

TSP-10
P906078-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.126	0.0500	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
o-Xylene	0.0423	0.0250	mg/kg	1	1925013	06/18/19	06/19/19	EPA 8021B	
Total Xylenes	0.168	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	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	27.4	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	

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>		101 %		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

Reported:
 06/20/19 15:19

TSP-11
P906078-03 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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

Reported:
 06/21/19 13:50

TSP-12
P906084-01 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Toluene	0.0344	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Ethylbenzene	0.0301	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
p,m-Xylene	0.732	0.0500	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
o-Xylene	0.202	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Total Xylenes	0.933	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	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	79.4	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	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	24.5	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	

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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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

Volatile Organics by EPA 8021

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	0.225	0.0500	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
o-Xylene	0.100	0.0250	mg/kg	1	1925039	06/21/19	06/21/19	EPA 8021B	
Total Xylenes	0.325	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	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	33.4	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	

Nonhalogenated Organics by 8015 - GRO

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	

Anions by 300.0/9056A

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

Reported:
 06/21/19 13:50

TSP-13
P906084-02 (Solid)

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	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	0.137	0.0500	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
o-Xylene	0.0856	0.0250	mg/kg	1	1925013	06/19/19	06/20/19	EPA 8021B	
Total Xylenes	0.223	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)	46.5	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		Chain of Custody		Page <u>1</u> of <u>1</u>	
Client: <u>BPX ENERGY</u>		Report Attention		Lab Use Only	
Project: <u>DAF B 2B</u>		Report due by: <u>JUNE 17, 2019</u>		TAT	
Project Manager: <u>Steve Moskal</u>		Attention: <u>Steve Moskal / Jeff Blagg</u>		EPA Program	
Address:		Address:		1D 3D RCRA CWA SDWA	
City, State, Zip		City, State, Zip		Analysis and Method	
Phone:		Phone:		State	
Email:		Email:		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
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: <u>Bill BPX</u> <u>contact: Steve Moskal</u> <u>P.O. to be issued</u> <u>vis ice in cooler</u>					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: <u>Jeff Blagg</u>					
Relinquished by: (Signature) <u>Jeff Blagg</u>		Date <u>6/14/2019</u>	Time <u>14:13</u>	Received by: (Signature) <u>Steve A. Moskal</u>	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
				Date <u>6/14/19</u> Time <u>14:13</u>	
<div style="display: flex; justify-content: space-between;"> <div> Lab Use Only Received on ice: <u>Y</u> / N T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u> </div> </div>					
Sample Matrix: <u>S</u> - Soil, <u>Sd</u> - Solid, <u>Sg</u> - Sludge, <u>A</u> - Aqueous, <u>O</u> - Other _____				Container Type: <u>g</u> - glass, <u>p</u> - poly/plastic, <u>ag</u> - amber glass, <u>v</u> - 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

Page 1 of 1

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

TAT

EPA Program

Lab WO# P906069 Job Number 03143-0424 1D X 3D X
 RCRA X CWA X SDWA X

Analysis and Method

State

NM CO UT AZ

X

Remarks

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							
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>Steve Moskal</u>	Date <u>6/17/19</u>	Time <u>15:36</u>	Lab Use Only Received on ice: <u>Y</u> / N
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	T1 AVG Temp °C <u>4</u>
						T2
						T3

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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 laboratory@envirotech-inc.com

Project Information

Chain of Custody

Page 1 of 1

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 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

V is 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>	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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Ph (970) 259-0615 Fr (800) 362-1879

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 laboratory@envirotech-inc.com

Page 9 of 9

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

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

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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>; Adeloey, Abiodun (aadeloye@blm.gov) <aadeloye@blm.gov>
Cc: Blagg, Jefferey <jeffcblagg@aol.com>; 'blagg_njv@yahoo.com' <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>
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

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

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From: Adeloye, Abiodun [mailto:aadeloye@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> 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

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



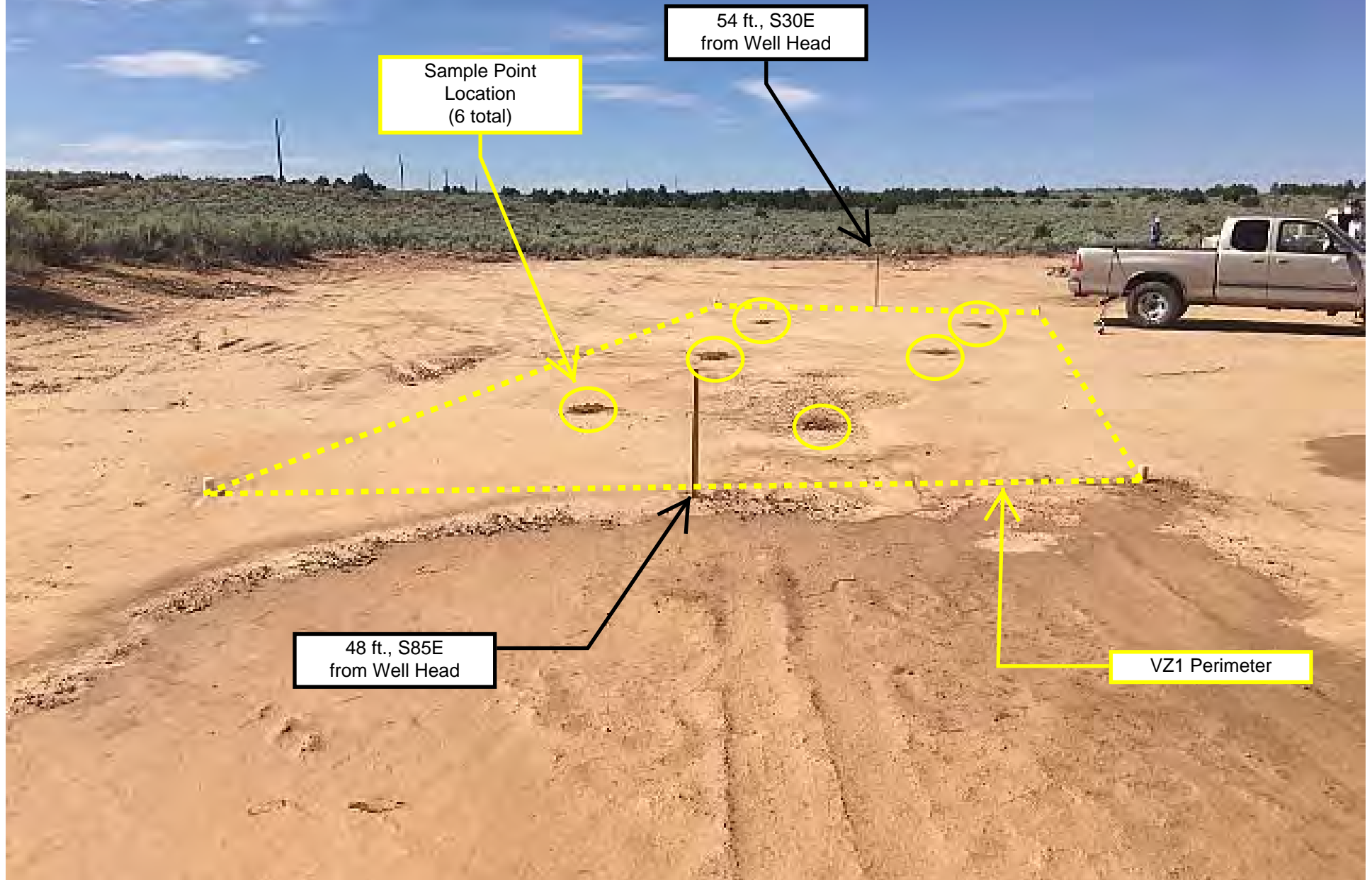
Google Earth

© 2018 Google

70 ft

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

PHOTO #1 - VZ1



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

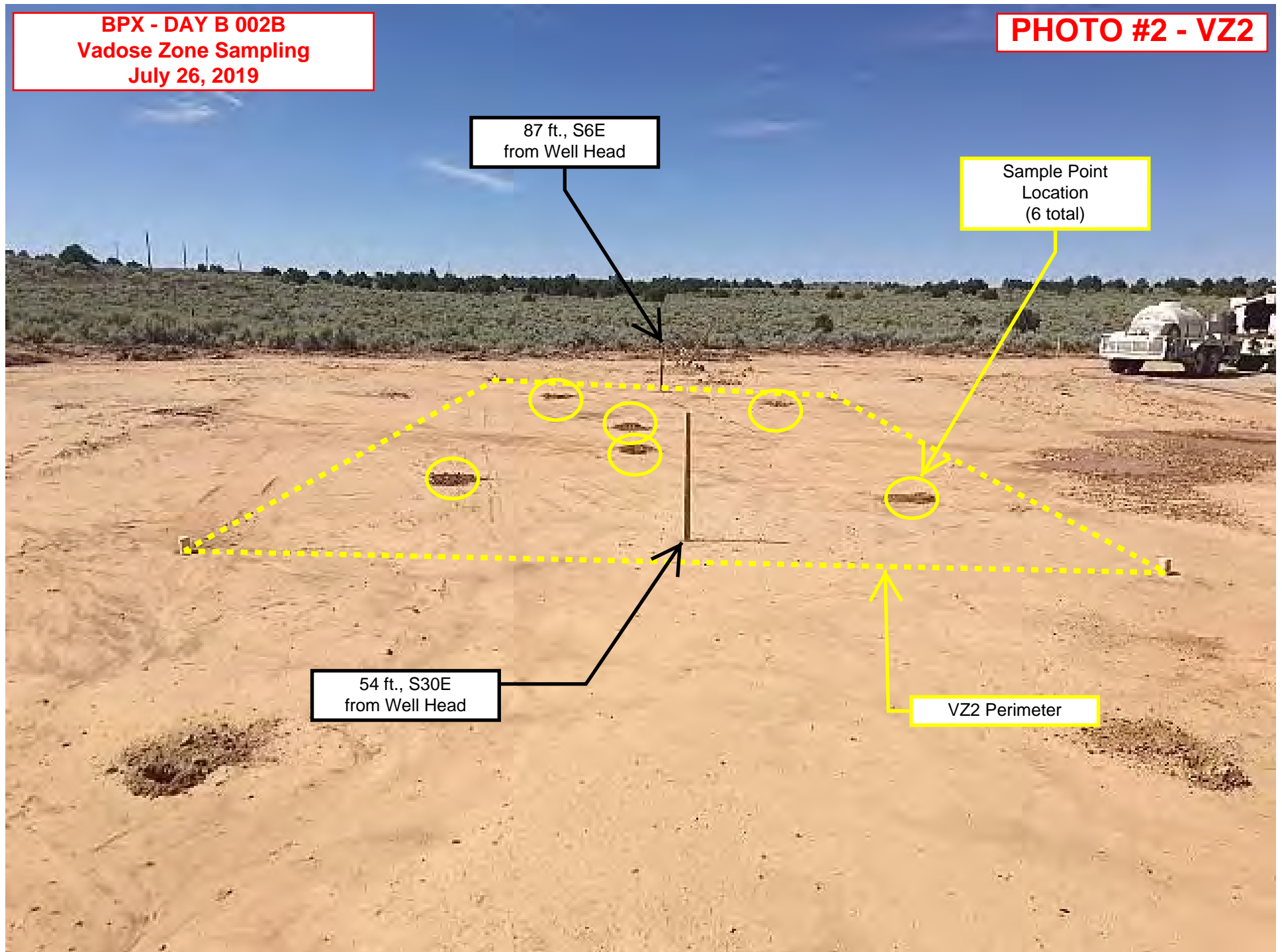
PHOTO #2 - VZ2

87 ft., S6E
from Well Head

Sample Point
Location
(6 total)

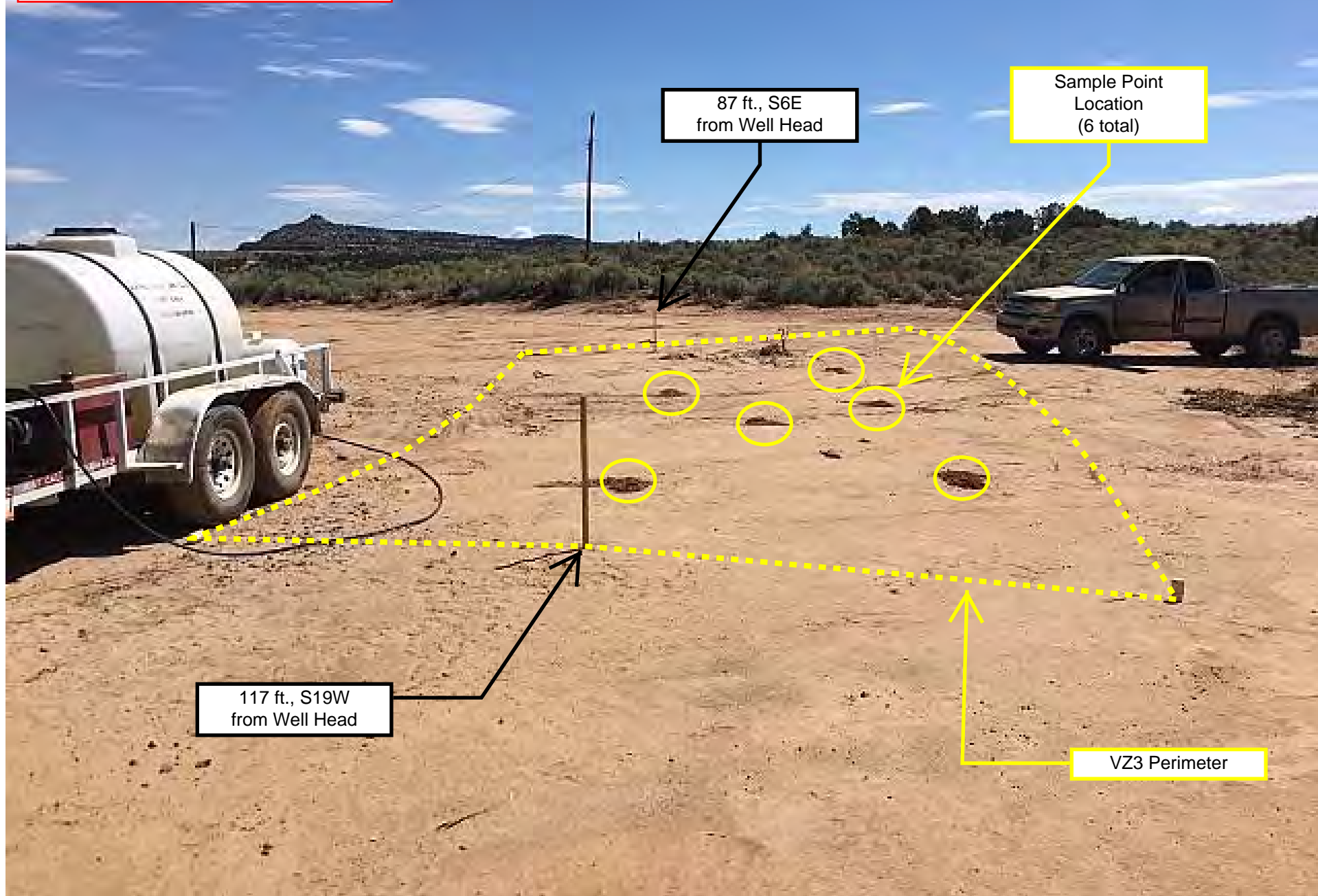
54 ft., S30E
from Well Head

VZ2 Perimeter



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

PHOTO #3 - VZ3



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



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

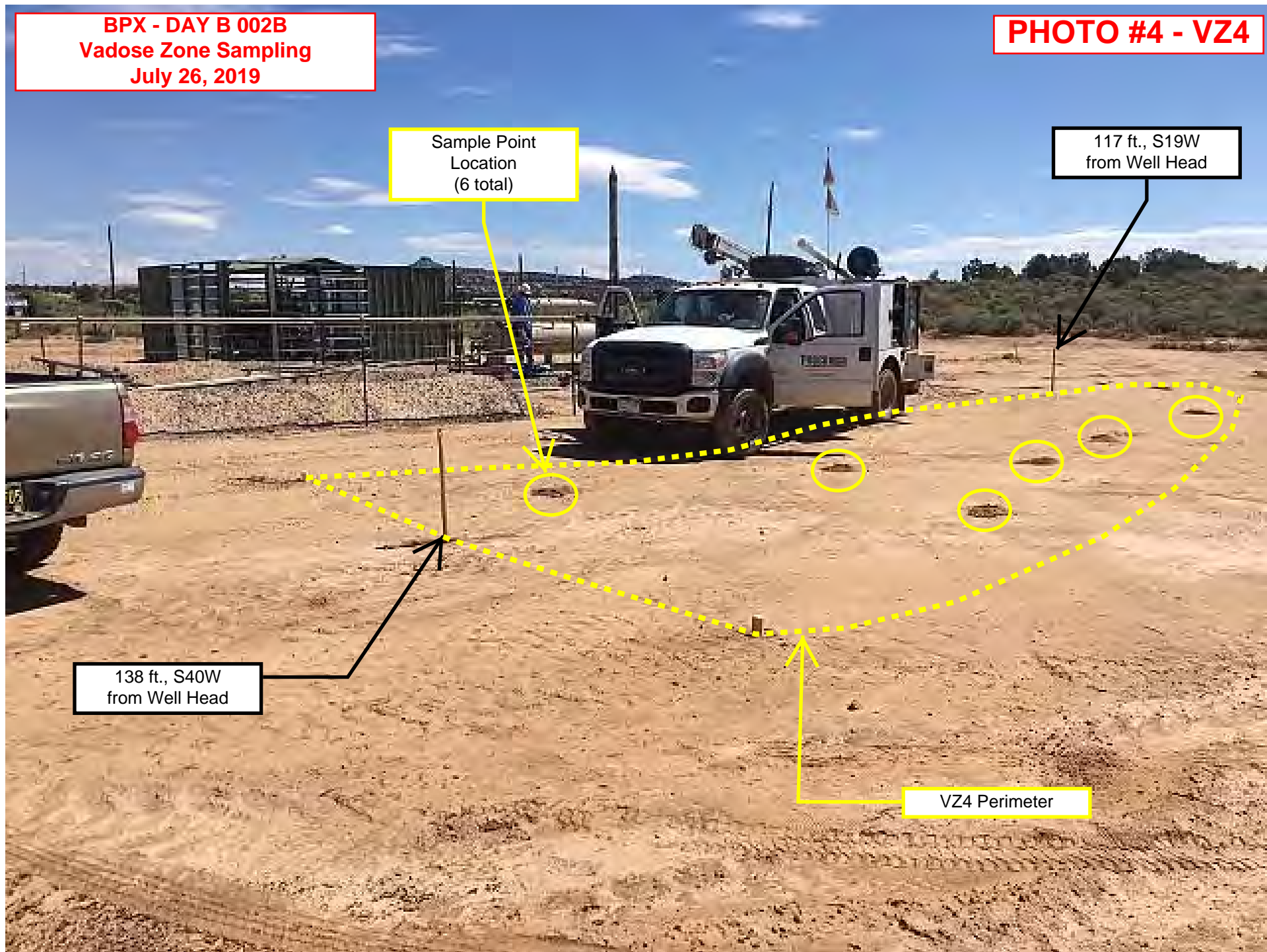
PHOTO #4 - VZ4

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

Reported:
 08/05/19 13:38

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

Reported:
 08/05/19 13:38

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

Reported:
 08/05/19 13:38

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

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

Reported:
 08/05/19 13:38

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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Client: <u>BPX ENERGY</u> Project: <u>JAK B 2B</u> Project Manager: <u>Steve Moskal</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____	Report Attention Report due by: <u>9/18/2019</u> Attention: <u>Steve Moskal / JEFF BLAGG</u> Address: _____ City, State, Zip: _____ Phone: _____ Email: _____	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="4">Lab Use Only</th> <th colspan="2">TAT</th> <th colspan="3">EPA Program</th> </tr> <tr> <td>Lab WO#</td> <td>Job Number</td> <td>1D</td> <td>3D</td> <td>RCRA</td> <td>CWA</td> <td>SDWA</td> <td colspan="2"></td> </tr> <tr> <td><u>P 909024</u></td> <td><u>03143-0424</u></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td colspan="2"></td> </tr> <tr> <th colspan="7">Analysis and Method</th> <th colspan="2">State</th> </tr> <tr> <td>DRO/ORO by 8015</td> <td>GRO/DRO by 8015</td> <td>BTEX by 8021</td> <td>VOC by 8260</td> <td>Metals 6010</td> <td>Chloride 300.0</td> <td></td> <td>NM</td> <td>CO</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>TX</td> <td>OK</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>UT</td> </tr> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>AZ</td> </tr> </table>	Lab Use Only				TAT		EPA Program			Lab WO#	Job Number	1D	3D	RCRA	CWA	SDWA			<u>P 909024</u>	<u>03143-0424</u>								Analysis and Method							State		DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		NM	CO								TX	OK									UT									AZ
Lab Use Only				TAT		EPA Program																																																																				
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							TX	OK																																																																		
								UT																																																																		
								AZ																																																																		

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO	GRO/DRO	BTEX by 816	VOC by 826	Metals 60	Chloride 3								Remarks
0935	9/10/2019	SOIL	1	TSP- VZ #3(2)	1	X	X	X			X								

Additional Instructions: BILL PROJECT PO
Contact: Steve Moskal

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)	Date	Time	Received by: (Signature)	Date	Time	Lab Use Only Received on ice: <u>Y</u> / <u>N</u> T1 _____ T2 _____ T3 _____ AVG Temp °C <u>4</u>
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time	
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.



5796 US Highway 64, Farmington, NM 87401

24 Hour Emergency Response Phone (800) 362-1879

Ph (505) 632-1381 Fax (505) 632-1865

envirotech-inc.com

labadmin@envirotech-inc.com

LABORATORY

QUALITY CONTROL /

QUALITY ASSURANCE

Analytical Report

Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

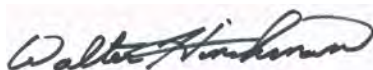
Samples Received: 12/13/2018 10:28:00AM

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

Reported:
12/17/18 16:41

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	"							
Surrogate: 4-Bromochlorobenzene-PID	8000		"	8000		100	50-150			

LCS (1850019-BS1)

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

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

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			
Surrogate: 4-Bromochlorobenzene-PID	8080		"	8000		101	50-150			

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	
Surrogate: 4-Bromochlorobenzene-PID	7940		"	8000		99.3	50-150			

LCS (1850019-BS2)

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

Surrogate: 4-Bromochlorobenzene-PID	7960		ug/kg	8000		99.5	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

Reported:
 12/17/18 16:41

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							
Surrogate: 1-Chloro-4-fluorobenzene-FID	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			
Surrogate: 1-Chloro-4-fluorobenzene-FID	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			
Surrogate: 1-Chloro-4-fluorobenzene-FID	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	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.54		"	8.00		107	50-150			

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BP America Production Co.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	12/17/18 16:41

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.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	12/17/18 16:41

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

Blank (1850024-BLK1)

Prepared: 12/14/18 0 Analyzed: 12/14/18 1

Chloride	ND	20.0	mg/kg							
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LCS (1850024-BS1)

Prepared: 12/14/18 0 Analyzed: 12/14/18 1

Chloride	255	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1850024-MS1)

Source: P812028-01

Prepared: 12/14/18 0 Analyzed: 12/14/18 1

Chloride	258	20.0	mg/kg	250	ND	103	80-120			
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Matrix Spike Dup (1850024-MSD1)

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.
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

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

Reported:
 06/14/19 13:33

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

Reported:
 06/14/19 13:33

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 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	"							
Surrogate: n-Nonane	49.4		"	50.0		98.8	50-200			

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BP America Production Co.	Project Name: Day B 2B	
PO Box 22024	Project Number: 03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager: Steve Moskal	06/14/19 13:33

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

Blank (1924046-BLK1)

Prepared: 06/13/19 1 Analyzed: 06/14/19 0

Chloride	ND	20.0	mg/kg
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LCS (1924046-BS1)

Prepared: 06/13/19 1 Analyzed: 06/14/19 0

Chloride	257	20.0	mg/kg	250	103	90-110
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Matrix Spike (1924046-MS1)

Source: P906061-01

Prepared: 06/13/19 1 Analyzed: 06/14/19 0

Chloride	373	20.0	mg/kg	250	119	102	80-120
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Matrix Spike Dup (1924046-MSD1)

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
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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:
06/14/19 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.

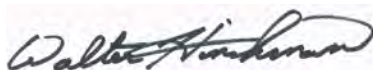
Samples Received: 6/14/2019

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.
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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

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.

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

BP America Production Co.	Project Name:	Day B 2B	Reported: 06/17/19 16:17
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

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		92.7	70-130			
Ethylbenzene	4.60	0.0250	"	5.00		92.0	70-130			
p,m-Xylene	9.46	0.0500	"	10.0		94.6	70-130			
o-Xylene	4.61	0.0250	"	5.00		92.2	70-130			
Total Xylenes	14.1	0.0250	"	15.0		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

Reported:
 06/17/19 16:17

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	"							
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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	
Surrogate: n-Nonane	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

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

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		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.

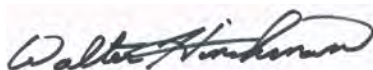
Samples Received: 6/17/2019

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

Reported:
 06/20/19 14:49

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

Reported:
 06/20/19 14:49

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.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	06/20/19 14:49

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	"							
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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	
Surrogate: n-Nonane	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

Reported:
 06/20/19 14:49

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

Reported:
06/20/19 14:49

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

Blank (1925003-BLK1)

Prepared & Analyzed: 06/17/19 1

Chloride	ND	20.0	mg/kg
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LCS (1925003-BS1)

Prepared & Analyzed: 06/17/19 1

Chloride	252	20.0	mg/kg	250	101	90-110
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Matrix Spike (1925003-MS1)

Source: P906038-01

Prepared & Analyzed: 06/17/19 1

Chloride	817	20.0	mg/kg	250	594	89.0	80-120
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Matrix Spike Dup (1925003-MSD1)

Source: P906038-01

Prepared & Analyzed: 06/17/19 1

Chloride	805	20.0	mg/kg	250	594	84.6	80-120	1.36	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:
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.

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

Analytical Report

Report Summary

Client: BP America Production Co.

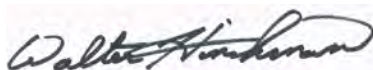
Samples Received: 6/18/2019

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

Reported:
06/20/19 15:19

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.

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

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

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	"							

Surrogate: 4-Bromochlorobenzene-PID 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			

Surrogate: 4-Bromochlorobenzene-PID 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			

Surrogate: 4-Bromochlorobenzene-PID 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	

Surrogate: 4-Bromochlorobenzene-PID 8.08 " 8.00 101 50-150

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

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	"							
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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	
Surrogate: n-Nonane	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

Reported:
 06/20/19 15:19

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.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	06/20/19 15:19

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

Blank (1925010-BLK1)

Prepared & Analyzed: 06/18/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1925010-BS1)

Prepared & Analyzed: 06/18/19 1

Chloride	252	20.0	mg/kg	250		101	90-110			
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Matrix Spike (1925010-MS1)

Source: P906049-01

Prepared: 06/18/19 1 Analyzed: 06/18/19 2

Chloride	257	20.0	mg/kg	250	ND	103	80-120			
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Matrix Spike Dup (1925010-MSD1)

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	
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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:
06/20/19 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.

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

Analytical Report

Report Summary

Client: BP America Production Co.

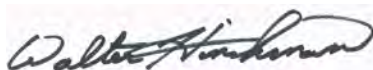
Samples Received: 6/19/2019

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.
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

Reported:
06/21/19 13:50

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.	Project Name:	Day B 2B	Reported: 06/21/19 13:50
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

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	"							

Surrogate: 4-Bromochlorobenzene-PID 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			

Surrogate: 4-Bromochlorobenzene-PID 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			

Surrogate: 4-Bromochlorobenzene-PID 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	

Surrogate: 4-Bromochlorobenzene-PID 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

Reported:
06/21/19 13:50

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	"							
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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	
Surrogate: n-Nonane	50.7		"	50.0		101	50-200			

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

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

Reported:
 06/21/19 13:50

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

Reported:
 06/21/19 13:50

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
Blank (1925028-BLK1)

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

Chloride ND 20.0 mg/kg

LCS (1925028-BS1)

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

Chloride 268 20.0 mg/kg 250 107 90-110

Matrix Spike (1925028-MS1)
Source: P906086-01

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

Chloride 265 20.0 mg/kg 250 ND 106 80-120

Matrix Spike Dup (1925028-MSD1)
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.
PO Box 22024
Tulsa OK, 74121-2024

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

Reported:
06/21/19 13:50

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.

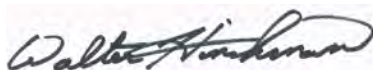
Samples Received: 6/21/2019

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.
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

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

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	"							
Surrogate: 4-Bromochlorobenzene-PID	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			
Surrogate: 4-Bromochlorobenzene-PID	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			
Surrogate: 4-Bromochlorobenzene-PID	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	
Surrogate: 4-Bromochlorobenzene-PID	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

Reported:
 06/25/19 16:17

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	"							
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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			
Surrogate: n-Nonane	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	
Surrogate: n-Nonane	50.0		"	50.0		100	50-200			

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

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

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

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.
 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

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.

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

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 7/26/2019

Job Number: 03143-0424

Work Order: 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.
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

Reported:
 08/05/19 13:38

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.	Project Name:	Day B #2B	Reported: 08/05/19 13:38
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

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	"							

Surrogate: 4-Bromochlorobenzene-PID	8.53		"	8.00		107	50-150
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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

Surrogate: 4-Bromochlorobenzene-PID	8.60		"	8.00		108	50-150
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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

Surrogate: 4-Bromochlorobenzene-PID	8.55		"	8.00		107	50-150
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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

Surrogate: 4-Bromochlorobenzene-PID	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

Reported:
08/05/19 13:38

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

Reported:
 08/05/19 13:38

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

Reported:
 08/05/19 13:38

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

LCS (1931046-BS1)

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

Chloride 251 20.0 mg/kg 250 100 90-110

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

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

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.

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

Analytical Report

Report Summary

Client: BP America Production Co.

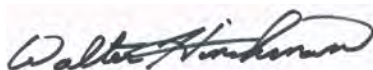
Samples Received: 9/10/2019

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

Reported:
09/17/19 10:22

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.	Project Name:	Day B 2B	Reported: 09/17/19 10:22
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	

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

Reported:
 09/17/19 10:22

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

Reported:
 09/17/19 10:22

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			

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

BP America Production Co.	Project Name:	Day B 2B	
PO Box 22024	Project Number:	03143-0424	Reported:
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	09/17/19 10:22

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

Blank (1937032-BLK1)

Prepared: 09/13/19 0 Analyzed: 09/13/19 1

Chloride	ND	20.0	mg/kg							
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LCS (1937032-BS1)

Prepared: 09/13/19 0 Analyzed: 09/13/19 1

Chloride	256	20.0	mg/kg	250		102	90-110			
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Matrix Spike (1937032-MS1)

Source: P909024-01

Prepared: 09/13/19 0 Analyzed: 09/13/19 1

Chloride	258	20.0	mg/kg	250	ND	103	80-120			
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Matrix Spike Dup (1937032-MSD1)

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	
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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:
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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