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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BP America Production Co	OGRID: 778	ALT REMEDIATION PLAN
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179	
Contact email: steven.moskal@bpx.com	Incident # *(assigned by OCD)* NRM2018233009	
Contact mailing address: 1199 Main St., Suite 101, Durango CO, 81301		

Location of Release Source

Latitude: 36.721295° Longitude: -107.669461°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Roelofs B 003	Site Type: Natural Gas Production Well Pad
Date Release Discovered: June 17, 2020	API#: 30-045-08208

Unit Letter	Section	Township	Range	County
M	15	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)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls): **6.7**	Volume Recovered (bbls): **0**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☒ Condensate	Volume Released (bbls): **135**	Volume Recovered (bbls): **0**
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
Release of condensate and produced water caused from a storage tank integrity failure.

BP discovered a leaking condensate tank on 6/17/2020. Leak was contained to berm, tank was emptied and shut in. The release area was further delineated via hollow stem auger. Based on the delineation findings, the operator has elected to perform soil shredding at the site, versus the previously selected SVE proposed remediation plan.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
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

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Steve Moskal Title: Environmental Coordinator

Signature: _____ Date: _____

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

OCD Only

Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

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

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

Characterization Report Checklist: ***Each of the following items must be included in the report.***

☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
☒ Field data
☒ Data table of soil contaminant concentration data
☒ Depth to water determination
☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
☒ Boring or excavation logs
☒ Photographs including date and GIS information
☒ Topographic/Aerial maps
☒ Laboratory data including chain of custody

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.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Printed Name: Steve Moskal Title: Environmental Coordinator

Signature: _____ Date: _____

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

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Steve Moskal Title: Contact Environmental Coordinator

Signature: Date: 11/23/2020

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

OCD Only

Received by: OCD Date: 11/23/2020

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

Signature: Date: 12/3/2020

Top 4' of backfill must be less than 600 mg/kg Chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, 10 mg/kg Benzene

Closure report due no later than March 31, 2021.

Incident ID	
District RP	
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: _____ Title: _____

Signature:_____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: _____

Printed Name: _____ Title: _____

THE OPERATOR Remediation Plan

To:	Cory Smith (NMOCD), Emmanuel Adeloye (BLM)
From:	Steve Moskal (BP America contract operator for Simcoe LLC.)
CC:	Nelson Velez (Cottonwood Consulting)
Date:	11/23/2020
Re:	Roelofs B 003 – Ex-situ Soil Remediation – Soil Shredding (M) S15 T29N R08W; API #30-045-08208; Serial No.:NM-SF-078415

Dear Mr. Smith, and Mr. Adeloye,

The Roelofs B 003 site is an temporarily shut in natural gas production well location within the San Juan Basin Gas Field in San Juan County, New Mexico. The site is located on land managed by the Bureau of Land Management Farmington Field Office (BLM-FFO) and is in an area primarily used for oil and gas production.

Background

Impacts were discovered at the location on June 1, 2020 due to a suspected tank integrity issue allowing approximately 6.7 bbls of natural gas condensate onto the ground. Delineation via hollow stem auger was performed on November 4th and 5th, 2020. The well site is contract operated by BP America Production on behalf Simcoe LLC.

Site Ranking

Following the NMOCD site ranking criteria, the site closure standard is 1,000 ppm GRO&DRO, 1,500 ppm MRO hydrocarbons, 50 ppm BTEX and 10 ppm benzene:

- Depth to groundwater >100’ (0 points)
- Nearest surface water source >1,000’ (0 points)
- Distance to nearest surface water body or coarse >300’ (0 points)

Note: The site ranking criteria had previously been submitted in a previous remediation plan (6/29/2020).

Proposed Remediation – Soil Shredding

The operator proposes to employ soil shredding on site. Soil shredding involves the excavation of the impacted soil which is then placed in processing equipment, such as a hammer mill or pug mill, to mechanically process and break-up the soil. The soil becomes more uniform and is aerated during the mechanical processing. The soil is then ejected from the processing equipment and a chemical oxidizer is applied, in this case, a 35% solution of hydrogen peroxide and water. The applied concentration of hydrogen peroxide typically ranges from 3-8%. The hydrogen peroxide quickly oxidizes the hydrocarbon impacts (reagents), resulting in soil, water and carbon dioxide (products). Once the soil is processed, it is stockpiled and allowed to sit for approximately 2-5 days of residence time. A composite soil sample is collected from each segregated stockpile and submitted for laboratory analysis to determine the effectiveness of the ex-situ remediation process. If the laboratory results are of acceptable levels, the soil will be used as backfill to the excavation; if results are unsatisfactory, the soil is passed through the process once more and a subsequent laboratory sample will be collected for laboratory confirmation as

described before. Typically, 24 hours of notice is provided to the regulatory agencies for the opportunity to observe and witness the stockpile sampling.

The operator proposes to perform the remediation of hydrocarbon impacts by the means of soil shredding. A conservative estimate of approximately 350 cubic yards of soil will be treated through the soil shredding process. The operator proposes to treat the impacted soil and segregate windrow stockpiles broken into 100 cubic yard increments. A single, five-point composite, soil sample will be collected to represent each 100 cubic yard stockpile. If necessary, once a baseline of approximately 1,000 cubic yards of soil is consistently and successfully treated, the operator will propose to decrease the sampling frequency to 500 cubic yard stockpile segments. The 500 cubic yard sampling modification will be discussed with the NMOCD and BLM for approval and input prior to implementation. THE OPERATOR would expect to have a sampling modification approval from the agencies within 48 working hours from the time of request. The remediation will then continue until complete and sampling will be based on the regulatory agencies approved sampling plan.

Excavation sampling will be in accordance with a typical dig and haul. The sidewalls and base of the excavation will be sampled in a frequency based on the size and progress of the excavation. Agency notification of excavation sampling will also be issued in advanced, 24-48 hours if possible.

The operator is currently anticipates mobilizing to the location in March 2019, pending the approval of this plan by all regulatory agencies. The operator plans to shut the well in and remove all necessary surface equipment. The operator requests a 100' off pad buffer be included in the approval of this plan, in case additional room is needed or if impacts migrate to the edge of the well pad surface. Attached is a figure depicting the requested 100' buffer area.

It is understood, that if soil remediation is not successful via the soil shredding, an alternative method such as a dig and haul or soil vapor extraction will be necessary. The operator will be in close communications with the agencies in the event an alternative remediation method is required.

Site Closure and Reporting

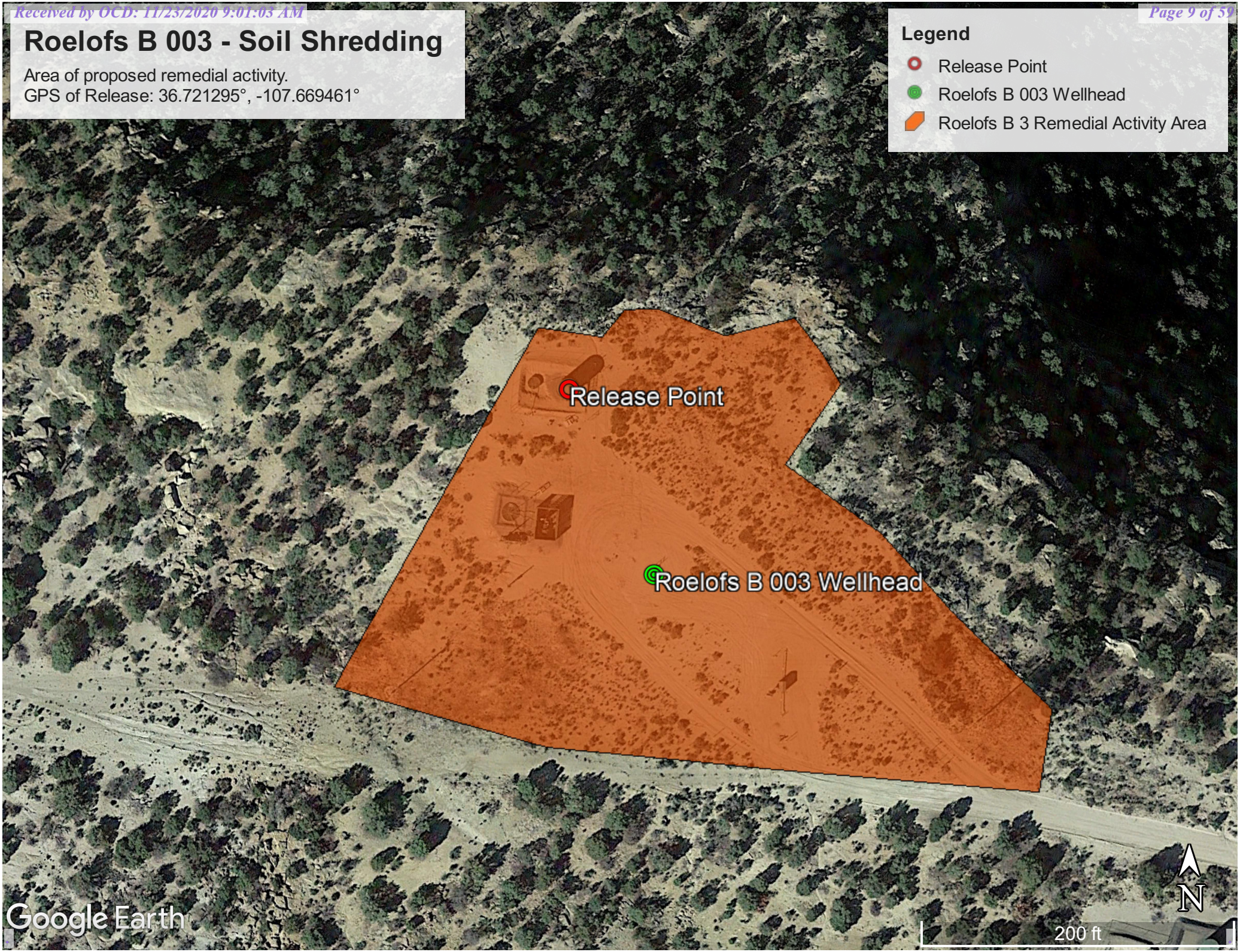
Once the soil shredding process is complete, the excavated area will be fully backfilled and compacted, and surface equipment will be re-set. Collection of vadose zone samples will be performed to ensure no residual impacts remain following the remedial activities. A minimum of 24-hour notice will be provided to the agencies prior to the collection of these samples. Any necessary interim reclamation will be performed. Final reclamation of the well pad will occur at a later date, once the natural gas production well is plugged and abandoned.

The operator will ensure, through stockpile sampling or other means, that the upper 4 feet of the backfilled area meets NMOCD requirements of less than 600 ppm chloride and is below 100 ppm total petroleum hydrocarbons. If needed in areas of remediation disturbances outside the well operations area, the operator will ensure the area is seeded in an effort to meet reclamation to appropriate standards within one year of completion of the remedial activities.

A final remediation report will be delivered to NMOCD and BLM for approval of final site closure regarding the excavation and soil shredding activities within 60 days of the receipt of the final laboratory report.

Roelofs B 003 - Soil Shredding

Area of proposed remedial activity.
GPS of Release: 36.721295°, -107.669461°



Notes: BH-1 and BH-2 drilled 11/4/2020. BH-3, BH-4, BH-5, and BH-6 drilled 11/5/2020.

Legend

- Oil & Gas Wells
- Borehole/SVE
- Borehole

Cottonwood CONSULTING

Mapping by: E. Millar, 11/19/2020
Coordinate System:
NAD 1983 UTM Zone 13 N

Location: Sec 15 T29N R8W NMPM

Roelofs B #003
Project Map
Simcoe LLC

Summary of Laboratory Analysis
Results in mg/Kg

Roelofs B 003
Drilling Results
Tank Release
11/23/2020

Date	Time	Sample ID	Sample Depth (Feet BGS)	Method 8015 GRO	Method 8015 DRO	Method 8015 MRO	Method 8021 Benzene	Method 8021 BTEX	Method 300.0 Chloride
NMOCD Guidelines				1,000 ppm		1,500 ppm	10 ppm	50 ppm	10,000 ppm
11/4/2020	10:28	BH-1	7.5	918	714	ND	ND	**98.07**	ND
11/4/2020	10:50	BH-1	25	58	ND	ND	ND	2.973	22.8
11/4/2020	10:59	BH-1	35	ND	ND	ND	ND	0.2963	ND
11/4/2020	11:09	BH-1	42.5	ND	ND	ND	ND	ND	ND
11/4/2020	11:42	BH-1	60	ND	ND	ND	ND	ND	ND
11/4/2020	14:04	BH-2	10	ND	ND	ND	ND	ND	ND
11/4/2020	14:12	BH-2	20	891	499	ND	0.341	**83.741**	ND
11/4/2020	14:34	BH-2	30	ND	ND	ND	ND	0.262	ND
11/4/2020	14:57	BH-2	40	ND	ND	ND	ND	ND	ND
11/5/2020	9:04	BH-3	25	44.7	73.1	ND	ND	0.848	23.5
11/5/2020	9;10	BH-3	30	ND	ND	ND	ND	ND	25.4
11/5/2020	9:29	BH-3	40	ND	ND	ND	ND	ND	ND
11/5/2020	11:18	BH-4	20	72.2	141	ND	ND	2.021	ND
11/5/2020	11:27	BH-4	30	ND	ND	ND	ND	ND	27.4
11/5/2020	11:41	BH-4	40	ND	ND	ND	ND	ND	ND
11/5/2020	13:08	BH-5	15	ND	167	ND	ND	9.85	ND
11/5/2020	13:20	BH-5	30	ND	ND	ND	ND	ND	90.3
11/5/2020	14:51	BH-6	25	70.1	38.1	ND	ND	2.098	ND
11/5/2020	15:13	BH-6	40	ND	ND	ND	ND	ND	ND

Received by OCD: 11/23/2020 9:01:03 AM

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-1

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/04/2020** DATE FINISH: **11/04/2020** DRILLER: **EM** LOGGED BY: **NV/JH**
TOTAL DEPTH: **60 ft.** CASING TYPE & SIZE: **2 in. sch40 PVC** SLOT SIZE: **0.010**
COMMENTS: Boring Location: **36.7212925,-107.6694547**

DEPTH FEET	SAMPLE TIME	LITHO-LOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
	1019		SPLIT SPOON	4,024	Hole Grout / Plug	DARK YELLOWISH ORANGE MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, STRONG HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)].
5	1026		CUTTINGS	4,402		DARK YELLOWISH ORANGE SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, STRONG HC ODOR DETECTED (3.0 - 10.0 FT. B.G.).
	1028		SAA	4,481		benzene - ND; BTEX - 98.07 ppm; TPH (GRO+DRO) - 1,632 ppm; Total TPH - 1,632 ppm; Chloride - ND.
10	1031		SAA	4,286		
	1034		SAA	3,790	Sand 3 to / Pack 25'	
15	1036		SAA	4,117		SAA EXCEPT DARKER SHADE (10.0 - 22.5 FT. B.G.)
	1038		SAA	4,307		
20	1045		SAA	3,772		
	1046		SAA	3,286		
25	1050		SAA	2,503	Hole Plug Grout	benzene - ND; BTEX - 2.976 ppm; TPH (GRO+DRO) - 58 ppm; Total TPH - 58 ppm; Chloride - 22.8 ppm.
	1052		SAA	1,161		
30	1054		SAA	773		
	1057		SAA	478		
35	1059		SAA	552		benzene - ND; BTEX - 0.2963 ppm; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
	1101		SAA	297		SAA EXCEPT MEDIUM GRAY, HC ODOR REDUCED (22.5 - 50.0 FT. B.G.)
40	1107		SAA	260		
	1109		SAA	73	BACKFILLED WITH CUTTINGS	benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
45	1110		SAA	257		
	1115		SAA	489		
50	1131		SAA	311		
55	1135		SAA	116		SAA EXCEPT DARK YELLOWISH BROWN (50.0 - 60.0 FT. B.G.)
60	1142		SAA	24		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
65						
70						
75						
80						

NOTES:

- SAND / SANDSTONE (all sandstone below 4 feet).
- SANDSTONE (discoloration).

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: **ROELOFS B 003 BH-1 (SVE-1). SKF** | DATE: **11/19/20** | DRAFTED BY: **NJV**

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-2

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/04/2020** DATE FINISH: **11/04/2020** DRILLER: **EM** LOGGED BY: **NV**
TOTAL DEPTH: **40 ft.** CASING TYPE & SIZE: **2 in. sch40 PVC** SLOT SIZE: **0.010**
COMMENTS: Boring Location: **36.7214162,-107.6694574**

DEPTH FEET	SAMPLE TIME	LITHO-LOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
					Hole Grout / Plug	DARK YELLOWISH BROWN MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)].
5	1358		CUTTINGS	388		DARK YELLOWISH BROWN SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, HC ODOR DETECTED (3.0 - 10.0 FT. B.G.).
10	1404		SAA	2,906		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
15	1408		SAA	4,816	Sand 3 to / Pack 25'	SAA EXCEPT DARK YELLOWISH ORANGE & STRONGER HC ODOR (10.0 - 22.5 FT. B.G.)
20	1412		SAA	5,402		benzene - 0.341 ppm; BTEX - 83.741 ppm; TPH (GRO+DRO) - 1,390 ppm; Total TPH - 1,390 ppm; Chloride - ND.
25	1419		SAA	1,952	Hole Plug Grout	
30	1434		SAA	804		benzene - ND; BTEX - 0.262 ppm; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND. SAA EXCEPT OLIVE GRAY, SANDSTONE TO SILTSTONE, HC ODOR REDUCED (22.5 - 50.0 FT. B.G.)
35	1447		SAA	310	BACKFILLED WITH CUTTINGS	
40	1457		SAA	74		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
45						
50						
55						
60						
65						
70						
75						
80						

NOTES:

- SAND / SANDSTONE (all sandstone below 3 feet).
- SANDSTONE TO SILTSTONE.

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: **ROELOFS B 003 BH-2 (SVE-2). SKF** | DATE: **11/19/20** | DRAFTED BY: **NJV**

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-3

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/05/2020** DATE FINISH: **11/05/2020** DRILLER: **EM** LOGGED BY: **KS/JH**
TOTAL DEPTH: **40 ft.** CASING TYPE & SIZE: **2 in. sch40 PVC** SLOT SIZE: **0.010**
COMMENTS: Boring Location: **36.7213838,-107.6694142**

DEPTH FEET	SAMPLE TIME	LITHO-LOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
					BACKFILLED WITH CUTTINGS	DARK YELLOWISH BROWN MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, NO APPARENT HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)].
5	0840		CUTTINGS	1.1		DARK YELLOWISH BROWN SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, HC ODOR DETECTED (3.0 - 20.0 FT. B.G.).
10	0846		SAA	12		
15	0851		SAA	16	Hole Grout / Plug	
20	0857		SAA	2,605		SAA STRONG HC ODOR (20.0 - 22.5 FT. B.G.)
25	0904		SAA	2,825	Sand 17.5 / Pack 30'	benzene - ND; BTEX - 0.848 ppm; TPH (GRO+DRO) - 117.8 ppm; Total TPH - 117.8 ppm; Chloride - 23.5 ppm.
30	0910		SAA	1,087		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - 25.4 ppm.
35	0920		SAA	261	BACKFILLED WITH CUTTINGS	SAA EXCEPT OLIVE GRAY, SANDSTONE TO SILTSTONE STARTING AT 35 FT. B.G., HC ODOR REDUCING (22.5 - 40.0 FT. B.G.)
40	0929		SAA	53		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
45						
50						
55						
60						
65						
70						
75						
80						

NOTES:

- SAND / SANDSTONE (all sandstone below 3 feet).
- SANDSTONE TO SILTSTONE.

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: **ROELOFS B 003 BH-3 (SVE-3). SKF** | DATE: **11/19/20** | DRAFTED BY: **NJV**

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-4

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/05/2020** DATE FINISH: **11/05/2020** DRILLER: **EM** LOGGED BY: **KS/JH**
TOTAL DEPTH: **40 ft.** CASING TYPE & SIZE: **2 in. sch40 PVC** SLOT SIZE: **0.010**
COMMENTS: Boring Location: **36.72135185,-107.6694741**

DEPTH FEET	SAMPLE TIME	LITHOLOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
5	0840		CUTTINGS	12.0	BACKFILLED WITH CUTTINGS	DARK YELLOWISH BROWN MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, NO APPARENT HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)]. DARK YELLOWISH BROWN SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, SLIGHT HC ODOR DETECTED (3.0 - 20.0 FT. B.G.).
10	0846		SAA	64.4		
15	0851		SAA	114	Hole Grout / Plug	
20	0857		SAA	4,160		benzene - ND; BTEX - 2.021 ppm; TPH (GRO+DRO) - 213.2 ppm; Total TPH - 213.2 ppm; Chloride - ND. SAA STRONG HC ODOR (20.0 - 25.0 FT. B.G.)
25	0904		SAA	2,273	Sand 17.5 / Pack 30'	
30	0910		SAA	602		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - 27.4 ppm. SAA EXCEPT OLIVE GRAY, SANDSTONE TO SILTSTONE STARTING AT 35 FT. B.G., HC ODOR REDUCING (25.0 - 40.0 FT. B.G.)
35	0920		SAA	452	BACKFILLED WITH CUTTINGS	
40	0929		SAA	102		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
45						
50						
55						
60						
65						
70						
75						
80						

NOTES:

- SAND / SANDSTONE (all sandstone below 3 feet).
- SANDSTONE TO SILTSTONE.

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: **ROELOFS B 003 BH-4 (SVE-4). SKF** | DATE: **11/19/20** | DRAFTED BY: **NJV**

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-5

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/05/2020** DATE FINISH: **11/05/2020** DRILLER: **EM** LOGGED BY: **KS/JH**
TOTAL DEPTH: **30 ft.** CASING TYPE & SIZE: **2 in. sch40 PVC** SLOT SIZE: **0.010**
COMMENTS: Boring Location: **36.72131726,-107.6695602**

DEPTH FEET	SAMPLE TIME	LITHO-LOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
5	1303		CUTTINGS	0.3	BACK / FILL; Hole Grout / Plug	DARK YELLOWISH BROWN MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, NO APPARENT HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)]. DARK YELLOWISH BROWN SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, NO TO SLIGHT HC ODOR DETECTED (3.0 - 15.0 FT. B.G.).
10	1306		SAA	3.3		
15	1308		SAA	3,599	Sand 10 / Pack 25'	benzene - ND; BTEX - 9.85 ppm; TPH (GRO+DRO) - 167 ppm; Total TPH - 167 ppm; Chloride - ND.
20	1312		SAA	2,748		SAA EXCEPT WITH STRONG HC ODOR (15.0 - 25.0 FT. B.G.)
25	1315		SAA	1,185	BACKFILLED WITH CUTTINGS	SAA EXCEPT OLIVE GRAY, HC ODOR REDUCING (25.0 - 30.0 FT. B.G.)
30	1320		SAA	219		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - 90.3 ppm.
35						
40						
45						
50						
55						
60						
65						
70						
75						
80						

NOTES:

- SAND / SANDSTONE (all sandstone below 3 feet).
- SANDSTONE TO SILTSTONE.

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: **ROELOFS B 003 BH-5 (SVE-5). SKF** | DATE: **11/19/20** | DRAFTED BY: **NJV**

Cottonwood CONSULTING

FIELD BORING LOG

BORING ID: BH-6

PROJECT: **ROELOFS B 003**
CLIENT: **SIMCOE LLC (BP AS OPERATOR)**
DRILLING CONTRACTOR: **YELLOW JACKET DRILLING SERVICES**
EQUIPMENT USED: **CME 75 - HOLLOW STEM AUGERS**
DATE START: **11/05/2020** DATE FINISH: **11/05/2020** DRILLER: **EM** LOGGED BY: **KS/JH**
TOTAL DEPTH: **40 ft.** CASING TYPE & SIZE: **NA** SLOT SIZE: **NA**
COMMENTS: Boring Location: **36.72123704,-107.6693665**

DEPTH FEET	SAMPLE TIME	LITHO-LOGY	SAMPLE COLLECTION	FIELD OVM (ppm)	SVE PIPING	SAMPLE DESCRIPTION
5	1438		CUTTINGS	0.9		DARK YELLOWISH BROWN MEDIUM GRAINED SAND, NON COHESIVE, LOOSE, DRY TO SLIGHTLY MOIST, NO APPARENT HYDROCARBON **(HC)** ODOR DETECTED [0.0 - 3.0 FT. BELOW GRADE (**B.G.**)]. DARK YELLOWISH BROWN SANDSTONE, COMPETENT, WEATHERED, FRIABLE, MEDIUM TO COURSE GRAINED, DRY, NO TO SLIGHT HC ODOR DETECTED (3.0 - 25.0 FT. B.G.).
10	1441		SAA	5.2		
15	1444		SAA	2.2		
20	1447		SAA	174		
25	1451		SAA	3,251		benzene - ND; BTEX - 2.098 ppm; TPH (GRO+DRO) - 108.2 ppm; Total TPH - 108.2 ppm; Chloride - ND. SAA STRONG HC ODOR (25.0 - 30.0 FT. B.G.)
30	1458		SAA	601		SAA EXCEPT OLIVE GRAY, SANDSTONE TO SILTSTONE STARTING AT 35 FT. B.G., HC ODOR REDUCING (30.0 - 40.0 FT. B.G.)
35	1504		SAA	86		
40	1513		SAA	24		benzene - ND; BTEX - ND; TPH (GRO+DRO) - ND; Total TPH - ND; Chloride - ND.
45						
50						
55						
60						
65						
70						
75						
80						

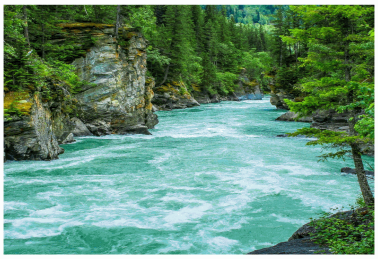
NOTES:

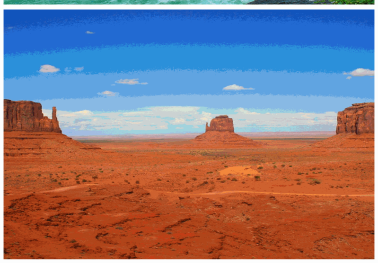
- SAND / SANDSTONE (all sandstone below 3 feet).
- SANDSTONE TO SILTSTONE.

OVM - Organic vapor meter or photoionization detector (PID).
ppm - parts per million or milligram per kilogram (mg/Kg).
ND - Not detected at laboratory reporting limit.
SAA - Same as above.
TPH - Total Petroleum Hydrocarbons.
GRO - Gasoline Range Organics;
DRO - Diesel Range Organics.

DRAWING: ROELOFS B 003 BH-6. SKF | DATE: 11/19/20 | DRAFTED BY: NJV

Report to:
Steve Moskal
PO Box 22024
Tulsa, OK 74121-2024





5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

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Practical Solutions for a Better Tomorrow

Analytical Report

BP America Production Co.

Project Name:	Roelofs B #3
Work Order:	E011018
Job Number:	03143-0424
Received:	11/5/2020

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 data reported.
Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 11/12/20

Steve Moskal
PO Box 22024
Tulsa, OK 74121-2024

Project Name: Roelofs B #3
Workorder: E011018
Date Received: 11/5/2020 4:39:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/5/2020 4:39:00PM, under the Project Name: Roelofs B #3.

The analytical test results summarized in this report with the Project Name: Roelofs B #3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
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Cell: 775-287-1762
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Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/20 12:12

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-1 @ 7.5'	E011018-01A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-1 @ 25'	E011018-02A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-1 @ 35'	E011018-03A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-1 @ 42.5'	E011018-04A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-1 @ 60'	E011018-05A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-2 @ 10'	E011018-06A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-2 @ 20'	E011018-07A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-2 @ 30'	E011018-08A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.
BH-2 @ 40'	E011018-09A	Soil	11/04/20	11/05/20	Glass Jar, 4 oz.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-1 @ 7.5'

E011018-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.250	10	11/06/20	11/10/20	
Toluene	**11.2**	0.250	10	11/06/20	11/10/20	
Ethylbenzene	**6.07**	0.250	10	11/06/20	11/10/20	
p,m-Xylene	**64.3**	0.500	10	11/06/20	11/10/20	
o-Xylene	**16.5**	0.250	10	11/06/20	11/10/20	
Total Xylenes	**80.8**	0.250	10	11/06/20	11/10/20	
Surrogate: 4-Bromochlorobenzene-PID		*112 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	**918**	200	10	11/06/20	11/10/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*94.9 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**714**	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*261 %*	*50-200*	*11/10/20*	*11/10/20*	*S5*
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-1 @ 25'

E011018-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/09/20	
Toluene	**0.426**	0.0250	1	11/06/20	11/09/20	
Ethylbenzene	**0.120**	0.0250	1	11/06/20	11/09/20	
p,m-Xylene	**2.00**	0.0500	1	11/06/20	11/09/20	
o-Xylene	**0.436**	0.0250	1	11/06/20	11/09/20	
Total Xylenes	**2.43**	0.0250	1	11/06/20	11/09/20	
Surrogate: 4-Bromochlorobenzene-PID		*112 %*	*70-130*	*11/06/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	**58.0**	20.0	1	11/06/20	11/09/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*89.3 %*	*70-130*	*11/06/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*105 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	**22.8**	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-1 @ 35'

E011018-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/09/20	
Toluene	**0.0473**	0.0250	1	11/06/20	11/09/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/09/20	
p,m-Xylene	**0.202**	0.0500	1	11/06/20	11/09/20	
o-Xylene	**0.0474**	0.0250	1	11/06/20	11/09/20	
Total Xylenes	**0.249**	0.0250	1	11/06/20	11/09/20	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*70-130*	*11/06/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/09/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.4 %*	*70-130*	*11/06/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*95.5 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-1 @ 42.5'

E011018-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/06/20	
Toluene	ND	0.0250	1	11/06/20	11/06/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/06/20	
p,m-Xylene	ND	0.0500	1	11/06/20	11/06/20	
o-Xylene	ND	0.0250	1	11/06/20	11/06/20	
Total Xylenes	ND	0.0250	1	11/06/20	11/06/20	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/06/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.2 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-1 @ 60'

E011018-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/06/20	
Toluene	ND	0.0250	1	11/06/20	11/06/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/06/20	
p,m-Xylene	ND	0.0500	1	11/06/20	11/06/20	
o-Xylene	ND	0.0250	1	11/06/20	11/06/20	
Total Xylenes	ND	0.0250	1	11/06/20	11/06/20	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/06/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.0 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*93.7 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-2 @ 10'

E011018-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/06/20	
Toluene	ND	0.0250	1	11/06/20	11/06/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/06/20	
p,m-Xylene	ND	0.0500	1	11/06/20	11/06/20	
o-Xylene	ND	0.0250	1	11/06/20	11/06/20	
Total Xylenes	ND	0.0250	1	11/06/20	11/06/20	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/06/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.2 %*	*70-130*	*11/06/20*	*11/06/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*96.0 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-2 @ 20'

E011018-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	**0.341**	0.250	10	11/06/20	11/10/20	
Toluene	**8.07**	0.250	10	11/06/20	11/10/20	
Ethylbenzene	**5.53**	0.250	10	11/06/20	11/10/20	
p,m-Xylene	**56.1**	0.500	10	11/06/20	11/10/20	
o-Xylene	**13.7**	0.250	10	11/06/20	11/10/20	
Total Xylenes	**69.8**	0.250	10	11/06/20	11/10/20	
Surrogate: 4-Bromochlorobenzene-PID		*109 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	**891**	200	10	11/06/20	11/10/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*92.7 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**499**	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*251 %*	*50-200*	*11/10/20*	*11/10/20*	*S5*
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

envirotech Inc.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-2 @ 30'

E011018-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/10/20	
Toluene	**0.0350**	0.0250	1	11/06/20	11/10/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/10/20	
p,m-Xylene	**0.177**	0.0500	1	11/06/20	11/10/20	
o-Xylene	**0.0499**	0.0250	1	11/06/20	11/10/20	
Total Xylenes	**0.227**	0.0250	1	11/06/20	11/10/20	
Surrogate: 4-Bromochlorobenzene-PID		*107 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/10/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*85.0 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*102 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

BH-2 @ 40'

E011018-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Benzene	ND	0.0250	1	11/06/20	11/10/20	
Toluene	ND	0.0250	1	11/06/20	11/10/20	
Ethylbenzene	ND	0.0250	1	11/06/20	11/10/20	
p,m-Xylene	ND	0.0500	1	11/06/20	11/10/20	
o-Xylene	ND	0.0250	1	11/06/20	11/10/20	
Total Xylenes	ND	0.0250	1	11/06/20	11/10/20	
Surrogate: 4-Bromochlorobenzene-PID		*106 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: RKS			Batch: 2045047
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/06/20	11/10/20	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*86.5 %*	*70-130*	*11/06/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*88.8 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2045046
Chloride	ND	20.0	1	11/06/20	11/06/20	

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

Volatile Organics by EPA 8021B

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2045047-BLK1)									Prepared: 11/06/20 Analyzed: 11/06/20
Benzene	ND	0.0250							
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	*8.20*		*8.00*		*103*	*70-130*			
LCS (2045047-BS1)									Prepared: 11/06/20 Analyzed: 11/06/20
Benzene	5.61	0.0250	5.00		112	70-130			
Toluene	5.61	0.0250	5.00		112	70-130			
Ethylbenzene	5.56	0.0250	5.00		111	70-130			
p,m-Xylene	11.2	0.0500	10.0		112	70-130			
o-Xylene	5.62	0.0250	5.00		112	70-130			
Total Xylenes	16.9	0.0250	15.0		112	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.49*		*8.00*		*106*	*70-130*			
Matrix Spike (2045047-MS1)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Benzene	5.59	0.0250	5.00	ND	112	54-133			
Toluene	5.57	0.0250	5.00	ND	111	61-130			
Ethylbenzene	5.50	0.0250	5.00	ND	110	61-133			
p,m-Xylene	11.1	0.0500	10.0	ND	111	63-131			
o-Xylene	5.57	0.0250	5.00	ND	111	63-131			
Total Xylenes	16.7	0.0250	15.0	ND	111	63-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.43*		*8.00*		*105*	*70-130*			
Matrix Spike Dup (2045047-MSD1)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Benzene	5.73	0.0250	5.00	ND	115	54-133	2.48	20	
Toluene	5.68	0.0250	5.00	ND	114	61-130	1.96	20	
Ethylbenzene	5.61	0.0250	5.00	ND	112	61-133	2.03	20	
p,m-Xylene	11.4	0.0500	10.0	ND	114	63-131	1.93	20	
o-Xylene	5.68	0.0250	5.00	ND	114	63-131	2.00	20	
Total Xylenes	17.0	0.0250	15.0	ND	114	63-131	1.95	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.40*		*8.00*		*105*	*70-130*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: RKS

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2045047-BLK1)									Prepared: 11/06/20 Analyzed: 11/06/20
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.97*		*8.00*		*87.1*	*70-130*			
LCS (2045047-BS2)									Prepared: 11/06/20 Analyzed: 11/06/20
Gasoline Range Organics (C6-C10)	45.3	20.0	50.0		90.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.98*		*8.00*		*87.3*	*70-130*			
Matrix Spike (2045047-MS2)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Gasoline Range Organics (C6-C10)	44.8	20.0	50.0	ND	89.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.95*		*8.00*		*86.9*	*70-130*			
Matrix Spike Dup (2045047-MSD2)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Gasoline Range Organics (C6-C10)	45.7	20.0	50.0	ND	91.3	70-130	1.90	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.85*		*8.00*		*85.6*	*70-130*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2045048-BLK1)									Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*46.9*		*50.0*		*93.8*	*50-200*			
LCS (2045048-BS1)									Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	432	25.0	500		86.3	38-132			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			
Matrix Spike (2045048-MS1)				**Source: E011018-03**					Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	447	25.0	500	ND	89.5	38-132			
Surrogate: n-Nonane	*43.8*		*50.0*		*87.6*	*50-200*			
Matrix Spike Dup (2045048-MSD1)				**Source: E011018-03**					Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	446	25.0	500	ND	89.3	38-132	0.222	20	
Surrogate: n-Nonane	*47.9*		*50.0*		*95.8*	*50-200*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 12:12:45PM

Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2045046-BLK1)									Prepared: 11/06/20 Analyzed: 11/06/20
Chloride	ND	20.0							
LCS (2045046-BS1)									Prepared: 11/06/20 Analyzed: 11/06/20
Chloride	253	20.0	250		101	90-110			
Matrix Spike (2045046-MS1)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Chloride	248	20.0	250	ND	99.0	80-120			
Matrix Spike Dup (2045046-MSD1)				**Source: E011021-01**					Prepared: 11/06/20 Analyzed: 11/06/20
Chloride	252	20.0	250	ND	101	80-120	1.92	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.

Definitions and Notes

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/20 12:12

S5	Surrogate spike recovery exceeded acceptance limits due to interfering target and/or non-target analytes.
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Received by OCD: 11/23/2020 9:01:03 AM

Client: BP	
Project: Roelofs B # 3	
Project Manager: Steve Moskal	
Address: 1199 Main Ave., Suite 101	
City, State, Zip Durango, CO 81301	
Phone: (505) 330-9179 - S. Moskal	
Email: See "additional instructions" below	
Report due by: STANDARD TAT	

Bill To

Attention: Steve Moskal	
Address: 1199 Main Ave., Suite 101	
City, State, Zip Durango, CO 81301	
Phone: (505) 330-9179 - S. Moskal	
Email: Steven.Moskal@bpx.com	

Lab Use Only

Lab WO# E011018 | Job Number 031430424

TAT

1D	2D	3D	Standard
			X

EPA Program

CWA	SDWA	RCRA

State

NM	CO	UT	AZ	TX	
X					

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			# composite pts.	grab sample	Remarks
1028	11/04/20	SOIL	1	BH-1 @ 7.5'	1	X	X	X			X				X	4 oz. jar
1050	11/04/20	SOIL	1	BH-1 @ 25'	2	X	X	X			X				X	4 oz. JAR
1059	11/04/20	SOIL	1	BH-1 @ 35'	3	X	X	X			X				X	4 oz. JAR
1109	11/04/20	SOIL	1	BH-1 @ 42.5'	4	X	X	X			X				X	4 oz. JAR
1142	11/04/20	SOIL	1	BH-1 @ 60'	5	X	X	X			X				X	4 oz. JAR
1404	11/04/20	SOIL	1	BH-2 @ 10'	6	X	X				X				X	4 oz. JAR
1412	11/04/20	SOIL	1	BH-2 @ 20'	7	X	X				X				X	4 oz. JAR
1434	11/04/20	SOIL	1	BH-2 @ 30'	8	X	X				X				X	4 oz. JAR
1457	11/04/20	SOIL	1	BH-2 @ 40'	9	X	X				X				X	4 oz. JAR
	~~11/04/20~~	~~SOIL~~ 2H														

Additional Instructions: Send emails to: Steven.Moskal@bpx.com, Erin.Dunman@bpx.com, ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, & nvelez@cottonwoodconsulting.com. Use PO under 2H 2020 spill.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: NELSON VELEZ (505) 320-3487

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
[signature]	11/04/20	1639	Rhia Lopez	11/4/20	16:39
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

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

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

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

envirotech

Project Information | Chain of Custody | Page 1 of 1

Client: BP	Bill To
Project: Roelofs B # 3	Attention: Steve Moskal
Project Manager: Steve Moskal	Address: 1199 Main Ave., Suite 101
Address: 1199 Main Ave., Suite 101	City, State, Zip Durango, CO 81301
City, State, Zip Durango, CO 81301	Phone: (505) 330-9179 - S. Moskal
Phone: (505) 330-9179 - S. Moskal	Email: Steven.Moskal@bpx.com
Email: See "additional instructions" below	
Report due by: STANDARD TAT	

Lab Use Only: Lab WO# E011018 | Job Number 03143042A

TAT: 1D | 2D | 3D | Standard X

EPA Program: CWA | SDWA | RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method: DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | # composite pts. | grab sample

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	Remarks
1028	11/04/20	SOIL	1	BH-1 @ 7.5'	1	X	X	X			X		X	4 oz. jar
1050	11/04/20	SOIL	1	BH-1 @ 25'	2	X	X	X			X		X	4 oz. JAR
1059	11/04/20	SOIL	1	BH-1 @ 35'	3	X	X	X			X		X	4 oz. JAR
1109	11/04/20	SOIL	1	BH-1 @ 42.5'	4	X	X	X			X		X	4 oz. JAR
1142	11/04/20	SOIL	1	BH-1 @ 60'	5	X	X	X			X		X	4 oz. JAR
1404	11/04/20	SOIL	1	BH-2 @ 10'	6	X	X	X			X		X	4 oz. JAR
1412	11/04/20	SOIL	1	BH-2 @ 20'	7	X	X	X			X		X	4 oz. JAR
1434	11/04/20	SOIL	1	BH-2 @ 30'	8	X	X	X			X		X	4 oz. JAR
1457	11/04/20	SOIL	1	BH-2 @ 40'	9	X	X	X			X		X	4 oz. JAR
	~~11/04/20~~	~~SOIL~~ 25						AM			11/5/20			

Additional Instructions: Send emails to: Steven.Moskal@bpx.com, Erin.Dunman@bpx.com, ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, & nvelez@cottonwoodconsulting.com. Use PO under 2H 2020 spill.

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: NELSON VELEZ (505) 320-3487

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
	11/04/20	1639	Nelson Lopez	11/4/20	16:39
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only: Received on ice: (Y) / N

T1 ____ T2 ____ T3 ____

AVG Temp °C 4

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

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

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

envirotech

Received by OCD: 11/23/2020 9:01:03 AM

Envirotech Analytical Laboratory

Printed: 11/5/2020 1:01:34PM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	BP America Production Co.	Date Received:	11/05/20 16:39	Work Order ID:	E011018
Phone:	(505) 330-9179	Date Logged In:	11/05/20 12:41	Logged In By:	Alexa Michaels
Email:	steven.moskal@bpx.com	Due Date:	11/12/20 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Nelson Velez
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	No	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

Samples -06, -07 -08 and -09 were not marked for Btex by 8021 analysis. after speaking with Steve Moskal via Phone, changes have been made to the coc that all samples should be run as BGDOC.

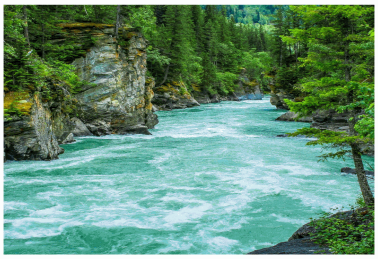
Client Instruction

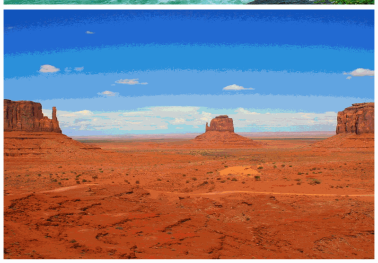
email- erin.dunman@bpx.com , ksiesser@cottonwoodconsulting.com , jharter@cottonwoodconsulting.com and nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition. Date

envirotech Inc.

Report to:
Steve Moskal
PO Box 22024
Tulsa, OK 74121-2024





5796 U.S. Hwy 64
Farmington, NM 87401

Phone: (505) 632-1881
Envirotech-inc.com

NELAP ACCREDITED TNI LABORATORY

envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

BP America Production Co.

Project Name:	Roelofs B #3
Work Order:	E011022
Job Number:	03143-0424
Received:	11/5/2020

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
11/12/20

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted 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 data reported.
Envirotech Inc, holds the Texas TNI certification T104704557-19-2 for data reported.

Date Reported: 11/12/20

Steve Moskal
PO Box 22024
Tulsa, OK 74121-2024

Project Name: Roelofs B #3
Workorder: E011022
Date Received: 11/5/2020 4:09:00PM

Steve Moskal,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/5/2020 4:09:00PM, under the Project Name: Roelofs B #3.

The analytical test results summarized in this report with the Project Name: Roelofs B #3 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

Walter Hinchman
Laboratory Director
Office: 505-632-1881
Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Lopez
Laboratory Administrator
Office: 505-632-1881
rlopez@envirotech-inc.com

Alexa Michaels
Sample Custody Officer
Office: 505-632-1881
labadmin@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

Table of Contents

Sample Summary

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/20 13:38

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH-3@25	E011022-01A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-3@30	E011022-02A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-3@40	E011022-03A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-4@20	E011022-04A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-4@30	E011022-05A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-4@40	E011022-06A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-5@15	E011022-07A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-5@30	E011022-08A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-6@25	E011022-09A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.
BH-6@40	E011022-10A	Soil	11/05/20	11/05/20	Glass Jar, 4 oz.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-3@25

E011022-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/09/20	
Toluene	ND	0.0250	1	11/09/20	11/09/20	
Ethylbenzene	**0.0440**	0.0250	1	11/09/20	11/09/20	
p,m-Xylene	**0.599**	0.0500	1	11/09/20	11/09/20	
o-Xylene	**0.205**	0.0250	1	11/09/20	11/09/20	
Total Xylenes	**0.804**	0.0250	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	**44.7**	20.0	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*104 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**73.1**	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	**23.5**	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-3@30

E011022-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/09/20	
Toluene	ND	0.0250	1	11/09/20	11/09/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/09/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/09/20	
o-Xylene	ND	0.0250	1	11/09/20	11/09/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*112 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*98.2 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*97.3 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	**25.4**	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-3@40

E011022-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/09/20	
Toluene	ND	0.0250	1	11/09/20	11/09/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/09/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/09/20	
o-Xylene	ND	0.0250	1	11/09/20	11/09/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*101 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*103 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-4@20

E011022-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/09/20	
Toluene	**0.0380**	0.0250	1	11/09/20	11/09/20	
Ethylbenzene	**0.113**	0.0250	1	11/09/20	11/09/20	
p,m-Xylene	**1.43**	0.0500	1	11/09/20	11/09/20	
o-Xylene	**0.446**	0.0250	1	11/09/20	11/09/20	
Total Xylenes	**1.87**	0.0250	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*118 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	**72.2**	20.0	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*98.5 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*118 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*117 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**141**	25.0	1	11/10/20	11/10/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/10/20	
Surrogate: n-Nonane		*119 %*	*50-200*	*11/10/20*	*11/10/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

envirotech Inc.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-4@30

E011022-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/09/20	
Toluene	ND	0.0250	1	11/09/20	11/09/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/09/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/09/20	
o-Xylene	ND	0.0250	1	11/09/20	11/09/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/09/20	
Surrogate: 1,2-Dichloroethane-d4		*97.3 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/09/20*	*11/09/20*	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/09/20*	*11/09/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*100 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	**27.4**	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-4@40

E011022-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/10/20	
Toluene	ND	0.0250	1	11/09/20	11/10/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/10/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/10/20	
o-Xylene	ND	0.0250	1	11/09/20	11/10/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*102 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*111 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*97.8 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*106 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-5@15

E011022-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.250	10	11/09/20	11/10/20	
Toluene	**0.565**	0.250	10	11/09/20	11/10/20	
Ethylbenzene	**0.635**	0.250	10	11/09/20	11/10/20	
p,m-Xylene	**6.83**	0.500	10	11/09/20	11/10/20	
o-Xylene	**1.82**	0.250	10	11/09/20	11/10/20	
Total Xylenes	**8.65**	0.250	10	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	200	10	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*96.0 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*114 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*100 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**167**	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*140 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

envirotech Inc.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-5@30

E011022-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/10/20	
Toluene	ND	0.0250	1	11/09/20	11/10/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/10/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/10/20	
o-Xylene	ND	0.0250	1	11/09/20	11/10/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*98.6 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*110 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*97.4 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*93.3 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	**90.3**	20.0	1	11/10/20	11/11/20	

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-6@25

E011022-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/10/20	
Toluene	**0.124**	0.0250	1	11/09/20	11/10/20	
Ethylbenzene	**0.134**	0.0250	1	11/09/20	11/10/20	
p,m-Xylene	**1.46**	0.0500	1	11/09/20	11/10/20	
o-Xylene	**0.374**	0.0250	1	11/09/20	11/10/20	
Total Xylenes	**1.84**	0.0250	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*120 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	**70.1**	20.0	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*99.2 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*120 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*112 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	**38.1**	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*113 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

envirotech Inc.

Sample Data

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

BH-6@40

E011022-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Benzene	ND	0.0250	1	11/09/20	11/10/20	
Toluene	ND	0.0250	1	11/09/20	11/10/20	
Ethylbenzene	ND	0.0250	1	11/09/20	11/10/20	
p,m-Xylene	ND	0.0500	1	11/09/20	11/10/20	
o-Xylene	ND	0.0250	1	11/09/20	11/10/20	
Total Xylenes	ND	0.0250	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: IY			Batch: 2046001
Gasoline Range Organics (C6-C10)	ND	20.0	1	11/09/20	11/10/20	
Surrogate: 1,2-Dichloroethane-d4		*93.2 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Toluene-d8		*109 %*	*70-130*	*11/09/20*	*11/10/20*	
Surrogate: Bromofluorobenzene		*98.9 %*	*70-130*	*11/09/20*	*11/10/20*	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: JL			Batch: 2045048
Diesel Range Organics (C10-C28)	ND	25.0	1	11/10/20	11/11/20	
Oil Range Organics (C28-C35)	ND	50.0	1	11/10/20	11/11/20	
Surrogate: n-Nonane		*123 %*	*50-200*	*11/10/20*	*11/11/20*	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: NE			Batch: 2046014
Chloride	ND	20.0	1	11/10/20	11/11/20	

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

Volatile Organic Compounds by EPA 8260B

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2046001-BLK1)									Prepared: 11/09/20 Analyzed: 11/10/20
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*94.0*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.2*	*70-130*			
LCS (2046001-BS1)									Prepared: 11/09/20 Analyzed: 11/10/20
Benzene	2.37	0.0250	2.50		95.0	70-130			
Toluene	2.71	0.0250	2.50		109	70-130			
Ethylbenzene	2.68	0.0250	2.50		107	70-130			
p,m-Xylene	5.04	0.0500	5.00		101	70-130			
o-Xylene	2.49	0.0250	2.50		99.4	70-130			
Total Xylenes	7.53	0.0250	7.50		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.475*		*0.500*		*95.0*	*70-130*			
Surrogate: Toluene-d8	*0.566*		*0.500*		*113*	*70-130*			
Surrogate: Bromofluorobenzene	*0.484*		*0.500*		*96.7*	*70-130*			
Matrix Spike (2046001-MS1)				**Source: E011025-01**					Prepared: 11/09/20 Analyzed: 11/10/20
Benzene	2.37	0.0250	2.50	ND	94.6	48-131			
Toluene	2.65	0.0250	2.50	ND	106	48-130			
Ethylbenzene	2.62	0.0250	2.50	ND	105	45-135			
p,m-Xylene	4.91	0.0500	5.00	ND	98.2	43-135			
o-Xylene	2.45	0.0250	2.50	ND	98.1	43-135			
Total Xylenes	7.36	0.0250	7.50	ND	98.2	43-135			
Surrogate: 1,2-Dichloroethane-d4	*0.495*		*0.500*		*98.9*	*70-130*			
Surrogate: Toluene-d8	*0.555*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.494*		*0.500*		*98.7*	*70-130*			
Matrix Spike Dup (2046001-MSD1)				**Source: E011025-01**					Prepared: 11/09/20 Analyzed: 11/09/20
Benzene	2.53	0.0250	2.50	ND	101	48-131	6.70	23	
Toluene	2.83	0.0250	2.50	ND	113	48-130	6.66	24	
Ethylbenzene	2.79	0.0250	2.50	ND	112	45-135	6.30	27	
p,m-Xylene	5.27	0.0500	5.00	ND	105	43-135	7.04	27	
o-Xylene	2.60	0.0250	2.50	ND	104	43-135	5.99	27	
Total Xylenes	7.87	0.0250	7.50	ND	105	43-135	6.70	27	
Surrogate: 1,2-Dichloroethane-d4	*0.483*		*0.500*		*96.6*	*70-130*			
Surrogate: Toluene-d8	*0.553*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.488*		*0.500*		*97.5*	*70-130*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: IY

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2046001-BLK1)									Prepared: 11/09/20 Analyzed: 11/10/20
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1,2-Dichloroethane-d4	*0.470*		*0.500*		*94.0*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.476*		*0.500*		*95.2*	*70-130*			
LCS (2046001-BS2)									Prepared: 11/09/20 Analyzed: 11/10/20
Gasoline Range Organics (C6-C10)	49.0	20.0	50.0		98.0	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.474*		*0.500*		*94.8*	*70-130*			
Surrogate: Toluene-d8	*0.567*		*0.500*		*113*	*70-130*			
Surrogate: Bromofluorobenzene	*0.490*		*0.500*		*97.9*	*70-130*			
Matrix Spike (2046001-MS2)				**Source: E011025-01**					Prepared: 11/09/20 Analyzed: 11/10/20
Gasoline Range Organics (C6-C10)	52.5	20.0	50.0	ND	105	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.496*		*0.500*		*99.2*	*70-130*			
Surrogate: Toluene-d8	*0.556*		*0.500*		*111*	*70-130*			
Surrogate: Bromofluorobenzene	*0.479*		*0.500*		*95.8*	*70-130*			
Matrix Spike Dup (2046001-MSD2)				**Source: E011025-01**					Prepared: 11/09/20 Analyzed: 11/09/20
Gasoline Range Organics (C6-C10)	52.1	20.0	50.0	ND	104	70-130	0.696	20	
Surrogate: 1,2-Dichloroethane-d4	*0.487*		*0.500*		*97.4*	*70-130*			
Surrogate: Toluene-d8	*0.565*		*0.500*		*113*	*70-130*			
Surrogate: Bromofluorobenzene	*0.492*		*0.500*		*98.3*	*70-130*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: JL

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2045048-BLK1)									Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C35)	ND	50.0							
Surrogate: n-Nonane	*46.9*		*50.0*		*93.8*	*50-200*			
LCS (2045048-BS1)									Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	432	25.0	500		86.3	38-132			
Surrogate: n-Nonane	*50.3*		*50.0*		*101*	*50-200*			
Matrix Spike (2045048-MS1)				**Source: E011018-03**					Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	447	25.0	500	ND	89.5	38-132			
Surrogate: n-Nonane	*43.8*		*50.0*		*87.6*	*50-200*			
Matrix Spike Dup (2045048-MSD1)				**Source: E011018-03**					Prepared: 11/10/20 Analyzed: 11/10/20
Diesel Range Organics (C10-C28)	446	25.0	500	ND	89.3	38-132	0.222	20	
Surrogate: n-Nonane	*47.9*		*50.0*		*95.8*	*50-200*			

QC Summary Data

BP America Production Co.	Project Name:	Roelofs B #3	**Reported:**
PO Box 22024	Project Number:	03143-0424	
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/2020 1:38:17PM

Anions by EPA 300.0/9056A

Analyst: NE

Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2046014-BLK1)									Prepared: 11/10/20 Analyzed: 11/11/20
Chloride	ND	20.0							
LCS (2046014-BS1)									Prepared: 11/10/20 Analyzed: 11/11/20
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2046014-MS1)				**Source: E011019-01**					Prepared: 11/10/20 Analyzed: 11/11/20
Chloride	250	20.0	250	ND	99.9	80-120			
Matrix Spike Dup (2046014-MSD1)				**Source: E011019-01**					Prepared: 11/10/20 Analyzed: 11/11/20
Chloride	249	20.0	250	ND	99.7	80-120	0.204	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.

Definitions and Notes

BP America Production Co.	Project Name:	Roelofs B #3	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	11/12/20 13:38

ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.

Project Information | Chain of Custody | Page 1 of 1

Received by OCD: 11/23/2020 9:01:03 AM

Client: BP	
Project: Roelofs B # 3	
Project Manager: Steve Moskal	
Address: 1199 Main Ave., Suite 101	
City, State, Zip Durango, CO 81301	
Phone: (505) 330-9179 - S. Moskal	
Email: See "additional instructions" below	
Report due by:	

Bill To

Attention: Steve Moskal	
Address: 1199 Main Ave., Suite 101	
City, State, Zip Durango, CO 81301	
Phone: (505) 330-9179 - S. Moskal	
Email: Steven.Moskal@bpx.com	

Lab Use Only

Lab WO# E011022 | Job Number 03143-0424

TAT				EPA Program	
1D	2D	3D	Standard	CWA	SDWA
			X		

RCRA

State: NM X | CO | UT | AZ | TX

Analysis and Method

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	# composite pts.	grab sample	Remarks
0904	11/5/20	SOIL	1	BH-3@25	1	X	X	X			X		X	4 oz. jar
0910	11/5/20	Soil	1	BH-3@30	2	X	X	X			X		X	4 oz. jar
0929	11/5/20	Soil	1	BH-3@40	3	X	X	X			X		X	4 oz. jar
1118	11/5/20	Soil	1	BH-4@20	4	X	X	X			X		X	4 oz jar
1127	11/5/20	Soil	1	BH-4@30	5	X	X	X			X		X	4 oz jar
1141	11/5/20	Soil	1	BH-4@40	6	X	X	X			X		X	4 oz jar
1308	11/5/20	Soil	1	BH-5@15	7	X	X	X			X		X	4 oz jar
1320	11/5/20	Soil	1	BH-5@30	8	X	X	X			X		X	4 oz jar
1451	11/5/20	Soil	1	BH-6@25	9	X	X	X			X		X	4 oz jar
1513	11/5/20	Soil	1	BH-6@40	10	X	X	X			X		X	4 oz jar

Additional Instructions: Send emails to: Steven.Moskal@bpx.com, Erin.Dunman@bpx.com, ksiesser@cottonwoodconsulting.com, jharter@cottonwoodconsulting.com, & nvelez@cottonwoodconsulting.com.

Use PO under 2H 2020 spill.

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: Kyle Siesser & Jacob Harter

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
Jacob Harter	11/5/20 1609-1H	1609	Raia Schwarz	11/5/20	16:09
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only

Received on ice: (Y) / N

T1 T2 T3

AVG Temp °C 4

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

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

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

envirotech

Envirotech Analytical Laboratory

Printed: 11/6/2020 10:37:58AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.
If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	BP America Production Co.	Date Received:	11/05/20 16:09	Work Order ID:	E011022
Phone:	(505) 330-9179	Date Logged In:	11/05/20 16:09	Logged In By:	Alexa Michaels
Email:	steven.moskal@bpx.com	Due Date:	11/12/20 17:00 (5 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC?	Yes	
2. Does the number of samples per sampling site location match the COC	Yes	
3. Were samples dropped off by client or carrier?	Yes	Carrier: Jacob Harter
4. Was the COC complete, i.e., signatures, dates/times, requested analyses?	Yes	
5. Were all samples received within holding time? Note: Analysis, such as pH which should be conducted in the field, i.e, 15 minute hold time, are not included in this disucssion.	Yes	

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT?	Yes	

Sample Cooler

7. Was a sample cooler received?	Yes	
8. If yes, was cooler received in good condition?	Yes	
9. Was the sample(s) received intact, i.e., not broken?	Yes	
10. Were custody/security seals present?	No	
11. If yes, were custody/security seals intact?	NA	
12. Was the sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling	Yes	
13. If no visible ice, record the temperature. Actual sample temperature: 4°C		

Sample Container

14. Are aqueous VOC samples present?	No	
15. Are VOC samples collected in VOA Vials?	NA	
16. Is the head space less than 6-8 mm (pea sized or less)?	NA	
17. Was a trip blank (TB) included for VOC analyses?	NA	
18. Are non-VOC samples collected in the correct containers?	Yes	
19. Is the appropriate volume/weight or number of sample containers collected?	Yes	

Field Label

20. Were field sample labels filled out with the minimum information:		
Sample ID?	Yes	
Date/Time Collected?	Yes	
Collectors name?	Yes	

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved?	No	
22. Are sample(s) correctly preserved?	NA	
24. Is lab filteration required and/or requested for dissolved metals?	No	

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase?	No	
27. If yes, does the COC specify which phase(s) is to be analyzed?	NA	

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory?	No	
29. Was a subcontract laboratory specified by the client and if so who?	NA	Subcontract Lab: NA

Comments/Resolution

email- erin.dunman@bpx.com , ksiesser@cottonwoodconsulting.com , jharter@cottonwoodconsulting.com and nvelez@cottonwoodconsulting.com

Client Instruction

email- erin.dunman@bpx.com , ksiesser@cottonwoodconsulting.com , jharter@cottonwoodconsulting.com and nvelez@cottonwoodconsulting.com

Signature of client authorizing changes to the COC or sample disposition.

Date

envirotech Inc.