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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BPX Energy	OGRID: 778	Final
Contact Name: Steve Moskal	Contact Telephone: (505) 330-9179	
Contact email: steven.moskal@bpx.com	Incident # *(assigned by OCD)*	
Contact mailing address: 1199 Main St., Suite 101, Durango CO, 81301	ncs1909438305	

Location of Release Source

Latitude: 36.909477° Longitude: -107.499566°
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Northeast Blanco Unit	Site Type: Natural Gas Production Well Pad
Date Release Discovered: March 13, 2019	API#: 30-045-1088 45-31088

Unit Letter	Section	Township	Range	County
P	7	T31N	R06W	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): 12 bbls	Volume Recovered (bbls): 11 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls):	Volume Recovered (bbls):
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release:
Heavy precipitation created a run-on event, flooding the secondary containment of the below grade tank and filling the tank, causing it to overflow. All water was contained to bermed area and mostly recovered using a vac truck.

Samples were collected on March 19, 2019 and will determine if remedial action is required. Release of Coal Bead Methane water.

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: March 25, 2019

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	

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	
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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: August 7, 2019

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: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

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: Steve Moskal Title: Environmental Coordinator

Signature:  Date: August 7, 2019

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

Due to the size and nature of the spill, no notification was provided to the NMOCD prior to collection of the samples during the initial assessment. This was an error on BP's part. The spill was contained to the bermed area an immediate to the tank. BP request a variance of the notification requirement.
Based on the lab results, there was no required remedial action.

OCD Only

Received by: OCD Date: 8/7/19

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

Closure Approved by:  Date: 8/19/19

Printed Name: Title:

BPX Energy
NEBU 060A
(P) Sec 7 – T31N – R6W
San Juan County, New Mexico
API: 30-045-31088

Summary Record of Release Inspection and Sampling

March 13, 2019 Produced water release discovered at 95 BGT. Caused by water run-in from storm event. Approximately 12 bbl discharged and contained within berm, 11 bbl recovered with vacuum truck.

Site Closure Standard Determined at 1,000/2,500 ppm TPH based on:

Depth to Groundwater based on BGT permit research > 100 feet (0 points)
Distance to water well > 1,000' based on BGT permit research (0 points)
Distance to dry wash > 1,000' based on site measurements (0 points)

Total Site Ranking: 0

March 18, 2019 BPX requests that Blagg Engineering, Inc. (BEI) inspect and sample release area.

March 19, 2019 BEI inspects release. Observe residual water in steel cellar surrounding the BGT. Moist soils around outside perimeter of cellar. Perimeter soil berm observed to have good integrity and appeared to contain the release. Use bailer to collect water sample grab from steel cellar for analysis of chlorides and 8260 (VOA). Use sampling spade to collect 5-point composite of moist soil at 6-inch depth around outside perimeter of steel cellar for analysis of TPH/BTEX/Chlorides. Submit samples to Envirotech Laboratories in Farmington, NM.

March 26, 2019 Receive laboratory test results. Water sample tested non-detect for BTEX, chlorides = 213 ppm. Soil sample tested non-detect for TPH, BTEX and chlorides. Further remedial action not indicated.

CLIENT: BPX

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

API #: 30-045-31088
TANK ID (if applicable): A

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: NEBU 060A
DATE STARTED: 3/19/2019
DATE FINISHED: 3/19/2019
QUAD/UNIT: P SEC: 7 TWP: 31N RNG: 6W PM: NM CNTY: SJ ST: NM
1/4 -1/4/FOOTAGE: 920 FSL x 1270 FEL LEASE TYPE: FEDERAL / STATE / FEE / INDIAN
LEASE #: SF-078988 PROD. FORMATION: MV/DK CONTRACTOR: —
ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.909359 x 107.499829 GL ELEV.: 6488
1) 95 BGT (SPILL SOURCE BWT) GPS COORD.: 36.909477 x 107.499566 DISTANCE/BEARING FROM W.H.:
2) GPS COORD.: DISTANCE/BEARING FROM W.H.:
3) GPS COORD.: DISTANCE/BEARING FROM W.H.:
4) GPS COORD.: DISTANCE/BEARING FROM W.H.:

SAMPLING DATA:

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

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	CELLAR Water Grab	3/19/19	0740	8260 AND 300.0	—
2)	SOIL Around BGT	"	0745	TPH/BTEX/CL	22.7
3)					
4)					

SOIL DESCRIPTION:

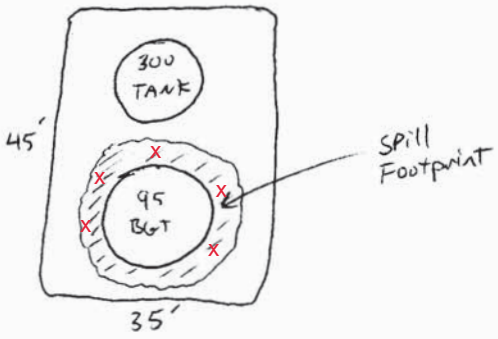
SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: Dark Tan
COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED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

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / NO EXPLANATION - OVERFLOW
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES / NO EXPLANATION: Water on Ground
EQUIPMENT SET OVER RECLAIMED AREA: YES / NO EXPLANATION -
OTHER:
SOIL IMPACT DIMENSION ESTIMATION: ____ ft. X ____ ft. X ____ ft. EXCAVATION ESTIMATION (Cubic Yards): ____
DEPTH TO GROUNDWATER: ____ NEAREST WATER SOURCE: ____ NEAREST SURFACE WATER: ____ NMOCD TPH CLOSURE STD: ____ ppm

SITE SKETCH

BGT Located: off / on site | PLOT PLAN circle: attached



X = soil 5-pt composite sample point

OVM CALIB. READ. = 100.6 ppm RF=2.82
OVM CALIB. GAS = 100.0 ppm
TIME: 3/19/19 am/pm DATE: 0750

MISCELL. NOTES

WO:
PO #:
PK:
PJ #:
Permit date(s):
OCD Appr. date(s):

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

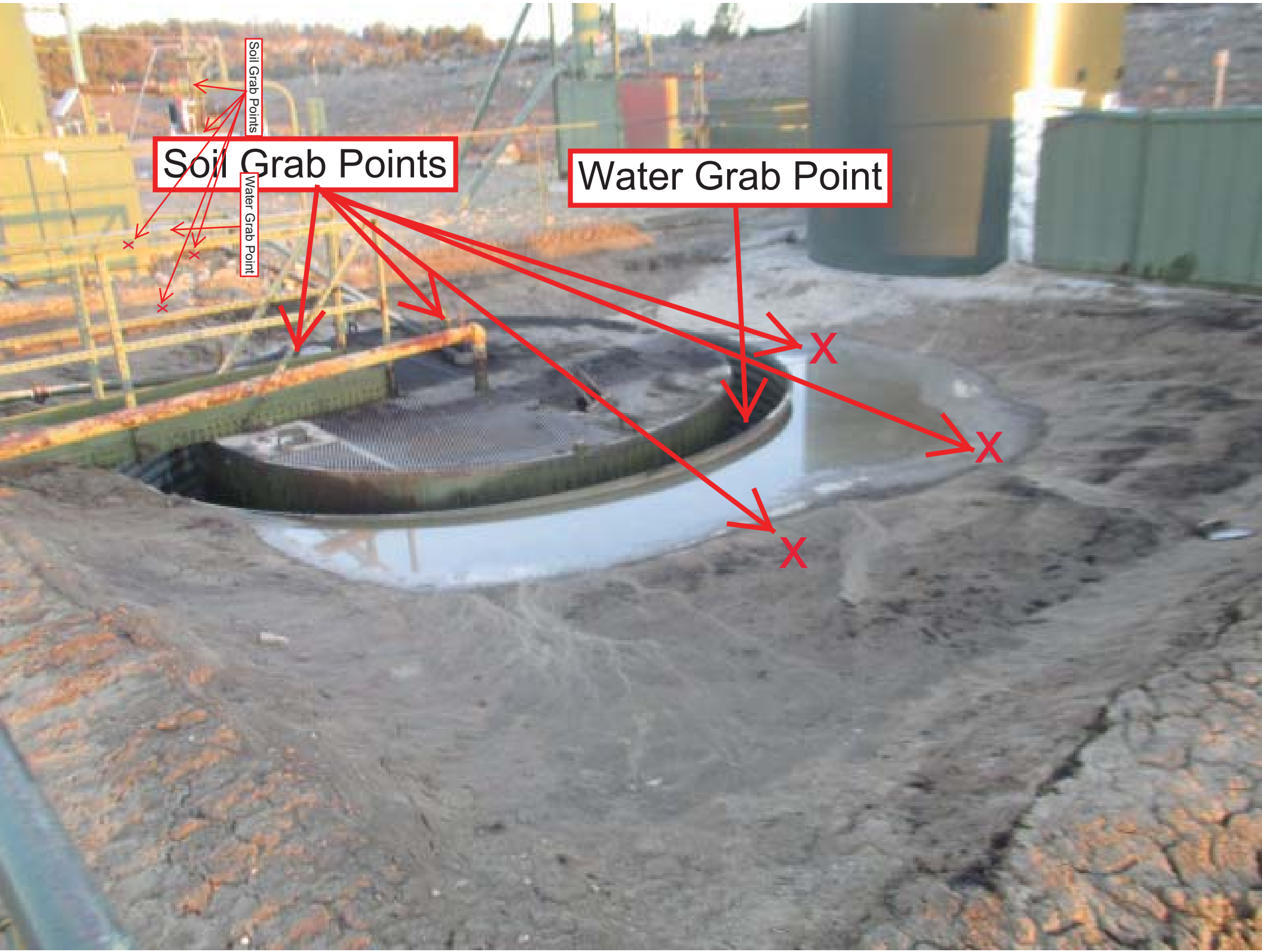
Magnetic declination: 10° E

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

NOTES: ONSITE:

revised: 11/26/13 BEI1005E-6.SKF


BP AMERICA PRODUCTION CO.
(505) 326-9200
ENERGY CORPORATION
N.E.B.U. #60-A WELL MV/DK
API # 30-045-31088 Fed # SF-078988
Sec. 7 T-31-N R-6-W Elev. 6488'
920' FSL 1270' FEL
Lat. 36° 54' 33" N Long. 107° 29' 59" W
San Juan County, NM


Soil Grab Points
Soil Grab Points
Water Grab Point
Water Grab Point


NEBU 060A
95 BGT in Steel Cellar
NEBU 060A
Google Earth
N
80 ft

envirotech
Analytical Laboratory

Analytical Report

Report Summary

Client: BP America Production Co.

Samples Received: 3/19/2019
Job Number: 03143-0424
Work Order: P903034
Project Name/Location: NEBU 060A

Report Reviewed By: Walter Hinchman Date: 3/26/19

Walter Hinchman, Laboratory Director

NELAP ACCREDITED TNI LABORATORY

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Cellar Water Grab	P903034-01A	Aqueous	03/19/19	03/19/19	VOA Vial, 40mL; HCl
	P903034-01B	Aqueous	03/19/19	03/19/19	VOA Vial, 40mL; HCl
Cellar Water Grab	P903034-02A	Aqueous	03/19/19	03/19/19	Poly 500mL
Release 5-pt @ 6"	P903034-03A	Soil	03/19/19	03/19/19	Glass Jar, 4 oz.

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Cellar Water Grab
P903034-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dichlorodifluoromethane (Freon-12)	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Chloromethane	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Vinyl chloride	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Bromomethane	ND	10.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Chloroethane	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Trichlorofluoromethane (Freon-11)	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1-Dichloroethene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Acetone	ND	50.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Methylene Chloride	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Methyl tert-Butyl Ether (MTBE)	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
trans-1,2-Dichloroethene	ND	2.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Diisopropyl Ether (DIPE)	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1-Dichloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
2-Butanone (MEK)	ND	20.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
cis-1,2-Dichloroethene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
2,2-Dichloropropane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Bromochloromethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Chloroform	ND	10.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1,1-Trichloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Carbon Tetrachloride	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1-Dichloropropene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
tert-Amyl Methyl ether (TAME)	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Benzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2-Dichloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Trichloroethene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2-Dichloropropane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Dibromomethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Bromodichloromethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
cis-1,3-Dichloropropene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
4-Methyl-2-pentanone (MIBK)	ND	20.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Toluene	**1.35**	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
trans-1,3-Dichloropropene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1,2-Trichloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Tetrachloroethene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
2-Hexanone	ND	20.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,3-Dichloropropane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Cellar Water Grab
P903034-01 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by 8260									
Dibromochloromethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2-Dibromoethane (EDB)	ND	2.50	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Chlorobenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Ethylbenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
p,m-Xylene	ND	2.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
o-Xylene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Total Xylenes	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Styrene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Bromoform	ND	2.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Isopropylbenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Bromobenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
n-Propyl Benzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2,3-Trichloropropane	ND	2.50	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
2-Chlorotoluene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,3,5-Trimethylbenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
4-Chlorotoluene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
tert-Butylbenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2,4-Trimethylbenzene	**2.63**	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
sec-Butylbenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
4-Isopropyltoluene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,3-Dichlorobenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,4-Dichlorobenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
n-Butyl Benzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2-Dichlorobenzene	ND	1.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2,4-Trichlorobenzene	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Hexachlorobutadiene	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Naphthalene	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1,2,3-Trichlorobenzene	ND	5.00	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
2-Methylnaphthalene	ND	10.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
1-Methylnaphthalene	ND	10.0	ug/L	1	1912025	03/22/19	03/22/19	EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4		*102 %*		*70-130*	*1912025*	*03/22/19*	*03/22/19*	*EPA 8260B*	
Surrogate: Toluene-d8		*99.5 %*		*70-130*	*1912025*	*03/22/19*	*03/22/19*	*EPA 8260B*	
Surrogate: Bromofluorobenzene		*103 %*		*70-130*	*1912025*	*03/22/19*	*03/22/19*	*EPA 8260B*	

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Cellar Water Grab
P903034-02 (Water)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Anions by 300.0/9056A									
Chloride	**213**	4.00	mg/L	2	1912021	03/21/19	03/21/19	EPA 300.0/9056A	

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Release 5-pt @ 6''

P903034-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*103 %*		*50-150*	*1912015*	*03/20/19*	*03/21/19*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	1912015	03/20/19	03/21/19	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1912016	03/20/19	03/20/19	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	1912016	03/20/19	03/20/19	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		*88.4 %*		*50-150*	*1912015*	*03/20/19*	*03/21/19*	*EPA 8015D*	
Surrogate: n-Nonane		*105 %*		*50-200*	*1912016*	*03/20/19*	*03/20/19*	*EPA 8015D*	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	1912017	03/20/19	03/20/19	EPA 300.0/9056A	

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912025 - Purge and Trap EPA 5030A										
Blank (1912025-BLK1)				Prepared & Analyzed: 03/22/19 0						
Dichlorodifluoromethane (Freon-12)	ND	5.00	ug/L							
Chloromethane	ND	5.00	"							
Vinyl chloride	ND	1.00	"							
Bromomethane	ND	10.0	"							
Chloroethane	ND	5.00	"							
Trichlorofluoromethane (Freon-11)	ND	5.00	"							
1,1-Dichloroethene	ND	1.00	"							
Acetone	ND	50.0	"							
Methylene Chloride	ND	5.00	"							
Methyl tert-Butyl Ether (MTBE)	ND	1.00	"							
trans-1,2-Dichloroethene	ND	2.00	"							
Diisopropyl Ether (DIPE)	ND	1.00	"							
1,1-Dichloroethane	ND	1.00	"							
Ethyl tert-Butyl Ether (ETBE)	ND	1.00	"							
2-Butanone (MEK)	ND	20.0	"							
cis-1,2-Dichloroethene	ND	1.00	"							
2,2-Dichloropropane	ND	1.00	"							
Bromochloromethane	ND	1.00	"							
Chloroform	ND	10.0	"							
1,1,1-Trichloroethane	ND	1.00	"							
Carbon Tetrachloride	ND	1.00	"							
1,1-Dichloropropene	ND	1.00	"							
tert-Amyl Methyl ether (TAME)	ND	1.00	"							
Benzene	ND	1.00	"							
1,2-Dichloroethane	ND	1.00	"							
Trichloroethene	ND	1.00	"							
1,2-Dichloropropane	ND	1.00	"							
Dibromomethane	ND	1.00	"							
Bromodichloromethane	ND	1.00	"							
cis-1,3-Dichloropropene	ND	1.00	"							
4-Methyl-2-pentanone (MIBK)	ND	20.0	"							
Toluene	ND	1.00	"							
trans-1,3-Dichloropropene	ND	1.00	"							
1,1,2-Trichloroethane	ND	1.00	"							
Tetrachloroethene	ND	1.00	"							
2-Hexanone	ND	20.0	"							
1,3-Dichloropropane	ND	1.00	"							
Dibromochloromethane	ND	1.00	"							
1,2-Dibromoethane (EDB)	ND	2.50	"							
Chlorobenzene	ND	1.00	"							
Ethylbenzene	ND	1.00	"							

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912025 - Purge and Trap EPA 5030A										
Blank (1912025-BLK1)				Prepared & Analyzed: 03/22/19 0						
1,1,1,2-Tetrachloroethane	ND	1.00	ug/L							
p,m-Xylene	ND	2.00	"							
o-Xylene	ND	1.00	"							
Total Xylenes	ND	1.00	"							
Styrene	ND	1.00	"							
Bromoform	ND	2.00	"							
Isopropylbenzene	ND	1.00	"							
1,1,2,2-Tetrachloroethane	ND	1.00	"							
Bromobenzene	ND	1.00	"							
n-Propyl Benzene	ND	1.00	"							
1,2,3-Trichloropropane	ND	2.50	"							
2-Chlorotoluene	ND	1.00	"							
1,3,5-Trimethylbenzene	ND	1.00	"							
4-Chlorotoluene	ND	1.00	"							
tert-Butylbenzene	ND	1.00	"							
1,2,4-Trimethylbenzene	ND	1.00	"							
sec-Butylbenzene	ND	1.00	"							
4-Isopropyltoluene	ND	1.00	"							
1,3-Dichlorobenzene	ND	1.00	"							
1,4-Dichlorobenzene	ND	1.00	"							
n-Butyl Benzene	ND	1.00	"							
1,2-Dichlorobenzene	ND	1.00	"							
1,2-Dibromo-3-chloropropane (DBCP)	ND	5.00	"							
1,2,4-Trichlorobenzene	ND	5.00	"							
Hexachlorobutadiene	ND	5.00	"							
Naphthalene	ND	5.00	"							
1,2,3-Trichlorobenzene	ND	5.00	"							
2-Methylnaphthalene	ND	10.0	"							
1-Methylnaphthalene	ND	10.0	"							
Surrogate: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*70-130*			
Surrogate: Toluene-d8	*9.97*		*"*	*10.0*		*99.7*	*70-130*			
Surrogate: Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*70-130*			
LCS (1912025-BS1)				Prepared & Analyzed: 03/22/19 0						
Dichlorodifluoromethane (Freon-12)	40.6	5.00	ug/L	50.0		81.3	50-180			
Bromomethane	59.8	10.0	"	50.0		120	22-187			
1,1-Dichloroethene	47.3	1.00	"	50.0		94.5	80-120			
Acetone	78.0	50.0	"	100		78.0	28-185			
Methyl tert-Butyl Ether (MTBE)	50.6	1.00	"	50.0		101	70-130			
1,1-Dichloroethane	45.6	1.00	"	50.0		91.2	70-130			
2,2-Dichloropropane	39.5	1.00	"	50.0		79.1	50-160			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912025 - Purge and Trap EPA 5030A										
LCS (1912025-BS1)				Prepared & Analyzed: 03/22/19 0						
Carbon Tetrachloride	47.9	1.00	ug/L	50.0		95.8	70-130			
tert-Amyl Methyl ether (TAME)	49.3	1.00	"	50.0		98.6	70-130			
Benzene	49.8	1.00	"	50.0		99.5	70-130			
Trichloroethene	46.7	1.00	"	50.0		93.4	70-130			
cis-1,3-Dichloropropene	48.7	1.00	"	50.0		97.4	70-130			
Toluene	48.6	1.00	"	50.0		97.2	80-120			
Dibromochloromethane	49.2	1.00	"	50.0		98.4	70-130			
Chlorobenzene	48.4	1.00	"	50.0		96.8	70-130			
Ethylbenzene	48.6	1.00	"	50.0		97.3	80-120			
p,m-Xylene	95.3	2.00	"	100		95.3	70-130			
o-Xylene	47.7	1.00	"	50.0		95.5	70-130			
Total Xylenes	143	1.00	"	150		95.4	70-130			
Bromoform	46.5	2.00	"	50.0		92.9	70-131			
Isopropylbenzene	47.4	1.00	"	50.0		94.8	70-130			
2-Chlorotoluene	47.9	1.00	"	50.0		95.8	70-130			
sec-Butylbenzene	52.2	1.00	"	50.0		104	70-130			
1,2-Dichlorobenzene	47.3	1.00	"	50.0		94.7	70-130			
Naphthalene	48.5	5.00	"	50.0		96.9	70-140			
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*70-130*			
Surrogate: Toluene-d8	*10.0*		*"*	*10.0*		*100*	*70-130*			
Surrogate: Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*70-130*			
Matrix Spike (1912025-MS1)	**Source: P903034-01**			Prepared & Analyzed: 03/22/19 0						
Dichlorodifluoromethane (Freon-12)	180	25.0	ug/L	250	ND	71.9	50-180			
Bromomethane	304	50.0	"	250	ND	122	17-190			
1,1-Dichloroethene	242	5.00	"	250	ND	96.9	49-144			
Acetone	434	250	"	500	ND	86.7	20-190			
Methyl tert-Butyl Ether (MTBE)	265	5.00	"	250	ND	106	61-136			
1,1-Dichloroethane	237	5.00	"	250	ND	94.7	64-134			
2,2-Dichloropropane	207	5.00	"	250	ND	82.9	45-165			
Carbon Tetrachloride	257	5.00	"	250	ND	103	61-139			
tert-Amyl Methyl ether (TAME)	259	5.00	"	250	ND	103	65-135			
Benzene	257	5.00	"	250	ND	103	59-133			
Trichloroethene	242	5.00	"	250	ND	96.6	49-148			
cis-1,3-Dichloropropene	253	5.00	"	250	ND	101	70-130			
Toluene	253	5.00	"	250	ND	101	67-130			
Dibromochloromethane	260	5.00	"	250	ND	104	70-132			
Chlorobenzene	252	5.00	"	250	ND	101	70-130			
Ethylbenzene	252	5.00	"	250	ND	101	62-136			
p,m-Xylene	496	10.0	"	500	ND	99.3	65-135			
o-Xylene	249	5.00	"	250	ND	99.5	70-130			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Volatile Organic Compounds by 8260 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912025 - Purge and Trap EPA 5030A										
Matrix Spike (1912025-MS1)		**Source: P903034-01**		Prepared & Analyzed: 03/22/19 0						
Total Xylenes	745	5.00	ug/L	750	ND	99.4	66-135			
Bromoform	249	10.0	"	250	ND	99.4	66-140			
Isopropylbenzene	246	5.00	"	250	ND	98.6	67-136			
2-Chlorotoluene	248	5.00	"	250	ND	99.0	67-134			
sec-Butylbenzene	270	5.00	"	250	ND	108	66-139			
1,2-Dichlorobenzene	254	5.00	"	250	ND	102	70-130			
Naphthalene	272	25.0	"	250	ND	109	60-160			
Surrogate: 1,2-Dichloroethane-d4	*51.8*		*"*	*50.0*		*104*	*70-130*			
Surrogate: Toluene-d8	*49.5*		*"*	*50.0*		*98.9*	*70-130*			
Surrogate: Bromofluorobenzene	*50.0*		*"*	*50.0*		*99.9*	*70-130*			
Matrix Spike Dup (1912025-MSD1)		**Source: P903034-01**		Prepared & Analyzed: 03/22/19 0						
Dichlorodifluoromethane (Freon-12)	163	25.0	ug/L	250	ND	65.1	50-180	9.89	20	
Bromomethane	280	50.0	"	250	ND	112	17-190	8.12	20	
1,1-Dichloroethene	226	5.00	"	250	ND	90.3	49-144	7.03	20	
Acetone	399	250	"	500	ND	79.7	20-190	8.39	30	
Methyl tert-Butyl Ether (MTBE)	246	5.00	"	250	ND	98.3	61-136	7.48	20	
1,1-Dichloroethane	221	5.00	"	250	ND	88.2	64-134	7.13	20	
2,2-Dichloropropane	189	5.00	"	250	ND	75.6	45-165	9.24	20	
Carbon Tetrachloride	235	5.00	"	250	ND	94.0	61-139	8.77	20	
tert-Amyl Methyl ether (TAME)	241	5.00	"	250	ND	96.4	65-135	6.99	20	
Benzene	239	5.00	"	250	ND	95.6	59-133	7.12	20	
Trichloroethene	223	5.00	"	250	ND	89.3	49-148	7.85	20	
cis-1,3-Dichloropropene	236	5.00	"	250	ND	94.4	70-130	6.93	20	
Toluene	236	5.00	"	250	ND	94.6	67-130	6.82	20	
Dibromochloromethane	241	5.00	"	250	ND	96.6	70-132	7.48	20	
Chlorobenzene	235	5.00	"	250	ND	93.9	70-130	7.13	20	
Ethylbenzene	235	5.00	"	250	ND	94.1	62-136	6.90	20	
p,m-Xylene	459	10.0	"	500	ND	91.9	65-135	7.73	20	
o-Xylene	232	5.00	"	250	ND	92.8	70-130	6.95	20	
Total Xylenes	692	5.00	"	750	ND	92.2	66-135	7.47	20	
Bromoform	232	10.0	"	250	ND	92.7	66-140	6.93	20	
Isopropylbenzene	229	5.00	"	250	ND	91.4	67-136	7.49	20	
2-Chlorotoluene	231	5.00	"	250	ND	92.4	67-134	6.90	20	
sec-Butylbenzene	252	5.00	"	250	ND	101	66-139	7.16	20	
1,2-Dichlorobenzene	236	5.00	"	250	ND	94.5	70-130	7.46	20	
Naphthalene	252	25.0	"	250	ND	101	60-160	7.85	20	
Surrogate: 1,2-Dichloroethane-d4	*51.4*		*"*	*50.0*		*103*	*70-130*			
Surrogate: Toluene-d8	*49.5*		*"*	*50.0*		*98.9*	*70-130*			
Surrogate: Bromofluorobenzene	*50.4*		*"*	*50.0*		*101*	*70-130*			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912015 - Purge and Trap EPA 5030A										
Blank (1912015-BLK1)				Prepared: 03/20/19 0 Analyzed: 03/21/19 2						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 4-Bromochlorobenzene-PID	*8.12*		*"*	*8.00*		*101*	*50-150*			
LCS (1912015-BS1)				Prepared: 03/20/19 0 Analyzed: 03/21/19 2						
Benzene	5.06	0.0250	mg/kg	5.00		101	70-130			
Toluene	5.08	0.0250	"	5.00		102	70-130			
Ethylbenzene	5.36	0.0250	"	5.00		107	70-130			
p,m-Xylene	11.2	0.0500	"	10.0		112	70-130			
o-Xylene	5.13	0.0250	"	5.00		103	70-130			
Total Xylenes	16.3	0.0250	"	15.0		109	70-130			
Surrogate: 4-Bromochlorobenzene-PID	*8.15*		*"*	*8.00*		*102*	*50-150*			
Matrix Spike (1912015-MS1)		**Source: P903034-03**		Prepared: 03/20/19 0 Analyzed: 03/21/19 2						
Benzene	4.37	0.0250	mg/kg	5.00	ND	87.5	54.3-133			
Toluene	4.40	0.0250	"	5.00	ND	88.1	61.4-130			
Ethylbenzene	4.65	0.0250	"	5.00	ND	93.0	61.4-133			
p,m-Xylene	9.73	0.0500	"	10.0	ND	97.3	63.3-131			
o-Xylene	4.49	0.0250	"	5.00	ND	89.8	63.3-131			
Total Xylenes	14.2	0.0250	"	15.0	ND	94.8	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	*8.21*		*"*	*8.00*		*103*	*50-150*			
Matrix Spike Dup (1912015-MSD1)		**Source: P903034-03**		Prepared: 03/20/19 0 Analyzed: 03/22/19 2						
Benzene	5.16	0.0250	mg/kg	5.00	ND	103	54.3-133	16.5	20	
Toluene	5.19	0.0250	"	5.00	ND	104	61.4-130	16.4	20	
Ethylbenzene	5.50	0.0250	"	5.00	ND	110	61.4-133	16.7	20	
p,m-Xylene	11.4	0.0500	"	10.0	ND	114	63.3-131	16.2	20	
o-Xylene	5.28	0.0250	"	5.00	ND	106	63.3-131	16.1	20	
Total Xylenes	16.7	0.0250	"	15.0	ND	111	63.3-131	16.2	20	
Surrogate: 4-Bromochlorobenzene-PID	*8.19*		*"*	*8.00*		*102*	*50-150*			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912015 - Purge and Trap EPA 5030A										
Blank (1912015-BLK1)				Prepared: 03/20/19 0 Analyzed: 03/21/19 2						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.01*		*"*	*8.00*		*87.6*	*50-150*			
LCS (1912015-BS2)				Prepared: 03/20/19 0 Analyzed: 03/21/19 2						
Gasoline Range Organics (C6-C10)	37.9	20.0	mg/kg	50.0		75.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.10*		*"*	*8.00*		*88.7*	*50-150*			
Matrix Spike (1912015-MS2)		**Source: P903034-03**		Prepared: 03/20/19 0 Analyzed: 03/22/19 2						
Gasoline Range Organics (C6-C10)	48.5	20.0	mg/kg	50.0	ND	97.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.05*		*"*	*8.00*		*88.2*	*50-150*			
Matrix Spike Dup (1912015-MSD2)		**Source: P903034-03**		Prepared: 03/20/19 0 Analyzed: 03/22/19 0						
Gasoline Range Organics (C6-C10)	51.4	20.0	mg/kg	50.0	ND	103	70-130	5.71	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*7.08*		*"*	*8.00*		*88.5*	*50-150*			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912016 - DRO Extraction EPA 3570										
Blank (1912016-BLK1)				Prepared: 03/20/19 0 Analyzed: 03/20/19 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*51.2*		*"*	*50.0*		*102*	*50-200*			
LCS (1912016-BS1)				Prepared: 03/20/19 0 Analyzed: 03/20/19 1						
Diesel Range Organics (C10-C28)	472	25.0	mg/kg	500		94.4	38-132			
Surrogate: n-Nonane	*52.7*		*"*	*50.0*		*105*	*50-200*			
Matrix Spike (1912016-MS1)		**Source: P903030-01**		Prepared: 03/20/19 0 Analyzed: 03/20/19 1						
Diesel Range Organics (C10-C28)	478	25.0	mg/kg	500	ND	95.7	38-132			
Surrogate: n-Nonane	*48.4*		*"*	*50.0*		*96.8*	*50-200*			
Matrix Spike Dup (1912016-MSD1)		**Source: P903030-01**		Prepared: 03/20/19 0 Analyzed: 03/20/19 1						
Diesel Range Organics (C10-C28)	510	25.0	mg/kg	500	ND	102	38-132	6.31	20	
Surrogate: n-Nonane	*46.9*		*"*	*50.0*		*93.7*	*50-200*			

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912017 - Anion Extraction EPA 300.0/9056A										
Blank (1912017-BLK1)				Prepared & Analyzed: 03/20/19 1						
Chloride	ND	20.0	mg/kg							
LCS (1912017-BS1)				Prepared & Analyzed: 03/20/19 1						
Chloride	256	20.0	mg/kg	250		102	90-110			
Matrix Spike (1912017-MS1)		**Source: P903034-03**		Prepared & Analyzed: 03/20/19 1						
Chloride	258	20.0	mg/kg	250	ND	103	80-120			
Matrix Spike Dup (1912017-MSD1)		**Source: P903034-03**		Prepared & Analyzed: 03/20/19 1						
Chloride	258	20.0	mg/kg	250	ND	103	80-120	0.0155	20	

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1912021 - Anion Extraction EPA 300.0/9056A										
Blank (1912021-BLK1)				Prepared: 03/21/19 0 Analyzed: 03/21/19 1						
Chloride	ND	2.00	mg/L							
LCS (1912021-BS1)				Prepared: 03/21/19 0 Analyzed: 03/21/19 1						
Chloride	25.6	2.00	mg/L	25.0		102	90-110			
Matrix Spike (1912021-MS1)		**Source: P903038-02**		Prepared: 03/21/19 0 Analyzed: 03/21/19 1						
Chloride	220	2.00	mg/L	25.0	204	63.4	80-120			SPK1
Matrix Spike Dup (1912021-MSD1)		**Source: P903038-02**		Prepared: 03/21/19 0 Analyzed: 03/21/19 1						
Chloride	220	2.00	mg/L	25.0	204	64.5	80-120	0.125	20	SPK1

BP America Production Co.	Project Name:	NEBU 060A	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Steve Moskal	03/26/19 15:15

Notes and Definitions

SPK1	The spike recovery is outside of quality control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
RPD	Relative Percent Difference
**	Methods marked with ** are non-accredited methods.

Project Information | Chain of Custody | Page 1 of 1

Client:	BPX ENERGY
Project:	NEBU 060A
Project Manager:	STEVE MOSKAL
Address:	
City, State, Zip	
Phone:	(505) 330 - 9179
Email:	

Report Attention

Report due by:	3/27/2019
Attention:	STEVE MOSKAL / JEFF BLAGG
Address:	
City, State, Zip	
Phone:	
Email:	

Lab Use Only

Lab WO#	Job Number
P903034	03143-0424

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM | CO | UT | AZ — NM: X

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	TPH 418.1	Remarks
0740	3/19/2019	WATER	2	CELLAR WATER GRAB	1				X				
0740	3/19/2019	WATER	1	CELLAR WATER GRAB	2						X		
0745	3/19/2019	SOIL	1	RELEASE 5-pt @ 6"	3	X	X	X			X		

Additional Instructions: BILL BPX [SPILL ASSESSMENTS P.O.] contact Steve Moskal — Vis ice in cooler

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. Blagg	3/19/2019	1118	Jessica Mc	3/19/19	11:18
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 ...laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech Analytical Laboratory
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