



## Analytical Report

OIL CONS. DIV DIST. 3

DEC 18 2015

### Report Summary

Client: BP America Production Co.

Chain Of Custody Number:

Samples Received: 6/10/2015 11:45:00AM

Job Number: 03143-0424

Work Order: P506043

Project Name/Location: Braden Head Testing

Entire Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Tim Cain', is written over a horizontal line.

Date: 6/18/15

Tim Cain, Laboratory Manager

The results in this report apply to the samples submitted to Envirotech's Analytical Laboratory and were analyzed in accordance with the chain of custody document supplied by you, the client, and as such are for your exclusive use only. The results in this report are based on the sample as received unless otherwise noted. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. If you have any questions regarding this analytical report, please don't hesitate to contact Envirotech's Laboratory Staff.

API 30-045-31066



BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Braden Head Testing Project Number: 03143-0424 Project Manager: Sabre Beebe	Reported: 18-Jun-15 15:23
---	---	------------------------------

### Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Roberts 2	P506043-01A	Aqueous	06/10/15	06/10/15	Poly 500mL

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

5796 US Highway 64, Farmington, NM 87401

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

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

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

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

001 30-045-310660



BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Braden Head Testing Project Number: 03143-0424 Project Manager: Sabre Beebe	Reported: 18-Jun-15 15:23
---	---	------------------------------

**Roberts 2**  
**P506043-01 (Water)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>Cation/Anion Analysis</b>									
pH @25°C	12.0		pH Units	1	1524016	06/11/15 10:35	06/11/15 10:49	150.1/4500H	H1
Electrical Conductivity	7440		umhos/cm	1	1524016	06/11/15 10:35	06/11/15 10:50	EPA 120.1	H1
Total Dissolved Solids	4210	10.0	mg/L	1	1525026	06/18/15	06/18/19	160.1/2540C	
Sodium Absorption Ratio	239		N/A	1	1525012	06/15/15	06/15/15	[CALC]	
Total Alkalinity as CaCO3	1500	10.0	mg/L	1	1525010	06/15/15	06/15/15	Hach Method 8203	
Total Hardness as CaCO3	7.56	0.60	mg/L		[CALC]	06/15/15	06/15/15	[CALC]	
Bicarbonate as CaCO3	ND	10.0	mg/L	1	1525010	06/15/15	06/15/15	Hach Method 8203	
Carbonate as CaCO3	4800	10.0	mg/L	1	1525010	06/15/15	06/15/15	Hach Method 8203	
Hydroxide as CaCO3	6300	10.0	mg/L	1	1525010	06/15/15	06/15/15	Hach Method 8203	
Nitrate-N	ND	1.00	mg/L	10	1524015	06/10/15 12:00	06/11/15 12:51	EPA 300.0	
Nitrite-N	ND	1.00	mg/L	10	1524015	06/10/15 12:00	06/11/15 12:51	EPA 300.0	
Chloride	462	10.0	mg/L	10	1524015	06/10/15	06/11/15	EPA 300.0	
Fluoride	ND	1.00	mg/L	10	1524015	06/10/15	06/11/15	EPA 300.0	
o-Phosphate	ND	5.00	mg/L	10	1524015	06/10/15 12:00	06/11/15 12:51	EPA 300.0	
Sulfate	165	10.0	mg/L	10	1524015	06/10/15	06/11/15	EPA 300.0	CCB1
Iron	0.79	0.09	mg/L	9	1525002	06/15/15	06/15/15	EPA 6010C	
Calcium	2.51	0.09	mg/L	9	1525002	06/15/15	06/15/15	EPA 6010C	
Magnesium	0.32	0.09	mg/L	9	1525002	06/15/15	06/15/15	EPA 6010C	
Potassium	59.2	0.09	mg/L	9	1525002	06/15/15	06/15/15	EPA 6010C	
Sodium	1510	0.09	mg/L	9	1525002	06/15/15	06/15/15	EPA 6010C	

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

5796 US Highway 64, Farmington, NM 87401

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

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

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

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



AP1 30-045-31066



BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Braden Head Testing Project Number: 03143-0424 Project Manager: Sabre Beebe	Reported: 18-Jun-15 15:23
---	---	------------------------------

**Cation/Anion Analysis - Quality Control**  
**Envirotech Analytical Laboratory**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
<b>Batch 1524015 - Anion Extraction EPA 300.0</b>										
<b>Blank (1524015-BLK1)</b>				Prepared & Analyzed: 10-Jun-15						
Nitrate-N	ND	0.10	mg/L							
Nitrite-N	ND	0.10	"							
<b>LCS (1524015-BS1)</b>				Prepared & Analyzed: 10-Jun-15						
Nitrate-N	5.16	0.10	mg/L	5.00		103	90-110			
Nitrite-N	5.18	0.10	"	5.00		104	90-110			
<b>Matrix Spike (1524015-MS1)</b>				Source: P506042-01		Prepared & Analyzed: 10-Jun-15				
Nitrate-N	5.32	0.10	mg/L	5.00	0.12	104	80-120			
Nitrite-N	5.16	0.10	"	5.00	ND	103	80-120			
<b>Matrix Spike Dup (1524015-MSD1)</b>				Source: P506042-01		Prepared & Analyzed: 10-Jun-15				
Nitrate-N	5.48	0.10	mg/L	5.00	0.12	107	80-120	2.96	20	
Nitrite-N	5.38	0.10	"	5.00	ND	108	80-120	4.10	20	

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

5796 US Highway 64, Farmington, NM 87401

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

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

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

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

CPI 30-045-31066



BP America Production Co. PO Box 22024 Tulsa OK, 74121-2024	Project Name: Braden Head Testing Project Number: 03143-0424 Project Manager: Sabre Beebe	Reported: 18-Jun-15 15:23
---	---	------------------------------

#### Notes and Definitions

H1	Sample was received after regulatory hold-time exceeded for target analyte.
CCB1	CCB above quality control limits. This target analyte may be biased high.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

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

5796 US Highway 64, Farmington, NM 87401

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

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

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

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

