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

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

OIL CONS. DIV DIST. 3
AUG 11 2015

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Gallegos Canyon Unit 170E	Facility Type: Natural gas well

Surface Owner: Private	Mineral Owner: Private	API No. 3004524175

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
E	35	29N	12W	1,755	North	910	West	

Latitude 36.68554 **Longitude** -108.07407

NATURE OF RELEASE

Type of Release: condensate/oil	Volume of Release: unknown	Volume Recovered: none
Source of Release: Fiberglass flow line discovered during the removal of a 95 bbl BGT.	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: September 25, 2014
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **SUPPLEMENTAL INFORMATION**

During removal of a below grade tank, contaminated soil was discovered. Initial investigation determined a fiberglass flow line between the wellhead and the separator to be leaking. Groundwater was found at an average depth of 5 feet below ground surface. Impacted soil was excavated and removed and 3groundwater investigation wells were drilled and installed. Groundwater was analyzed and results determined concentrations below detection limits for BTEX, but exceeded standards for sulfate and TDS. Sampling of produced water at the well was performed to determine sulfate and TDS values and to verify if the elevated concentration in the samples collected from the investigation wells are related to produced water.

Describe Area Affected and Cleanup Action Taken.* Groundwater investigation wells (3)were installed in the area with impacted soil that was excavated and laboratory results for BTEX were non-detect. However, lab results for sulfate were 1,500 ppm (MW-2) and 1,700 ppm (MW-3) with TDS contration 2,660 ppm (MW-2) and 2,940 ppm (MW-3). A sample of the produced water from the well was taken and analyzed for sulfate and TDS to determine if produced water had impacted the groundwater. The analysis of the produced water resulted in sulfate of 190 ppm and TDS of 648 ppm. The laboratory results of the produced water sample determined concentrations for both sulfate and TDS to be below the concentrations found in the investigation wells. The results indicate the produced water had no impact on the groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.

Signature:	OIL CONSERVATION DIVISION
Printed Name: Steve Moskal	Approved by Environmental Specialist:
Title: Field Environmental Coordinator	Approval Date: 8/12/15 Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: Attached ☐
Date: August 6, 2015 Phone: 505-326-9497	

* Attach Additional Sheets If Necessary #NCS 1432549116

BP America: GCU 170E
(E) Sec 35 – T29N – R12W
San Juan County, New Mexico
API: 30-045-24175

Summary Record of Impact Remediation

September 25, 2014 Soils impacted with hydrocarbons encountered during trenching for new flow line between wellhead and separator. Original source of impacts not evident, but appeared to be historical in nature with no integrity issues found on any current flow lines or equipment. Shallow groundwater encountered throughout location at an approximate depth of 5' below grade.

Site Closure Standard Determined at 100 ppm TPH based on:

Horizontal Distance to San Juan River < 1,000 feet (10 points)
Nearest Water Well > 1,000 feet (0 points)
Depth to Groundwater < 25 feet (20 points)

A same day immediate investigation of the extent of impacts was conducted and it was determined that impacts were limited to a small area on the well pad, with no imminent threat to surface water or off-site water sources.

October 9, 2014 Begin remediation of site by excavation of impacts with trackhoe.

October 13, 2014 Excavation size approximately 50' x 50' x 7' deep (approximately 3' below the water table). Sample the east and west sidewalls, and SE & SW corners.

October 15, 2014 Final excavation size approximately 65' x 50' x 7' deep. Sample south and east sidewalls.

Final laboratory test results from Envirotech laboratory are summarized below:

Sample ID	Date/Time	Map ID	TPH 8015B (mg/Kg)	BTEX 8021 (mg/Kg)	Chloride (mg/Kg)
West Wall 3-pt @ 4'	10/13/2014 14:10	1	ND	ND	ND
SW Corner @ 4'	10/13/2014 14:15	2	95	ND	ND
North Wall 3-pt @ 4'	10/13/2014 14:20	3	ND	ND	ND
SE Corner @ 4'	10/13/2014 14:25	4	61.4	ND	ND
South Wall 3-pt @ 4'	10/15/2014 10:42	5	81.7	ND	ND
East Wall 3-pt @ 4'	10/15/2014 10:50	6	ND	ND	ND

October 17, 2015 Excavation crew completes backfilling. Total estimated soils transported to landfarm = 486 CY.

December 2, 2015 Install 3 groundwater monitor wells at site to evaluate water quality.

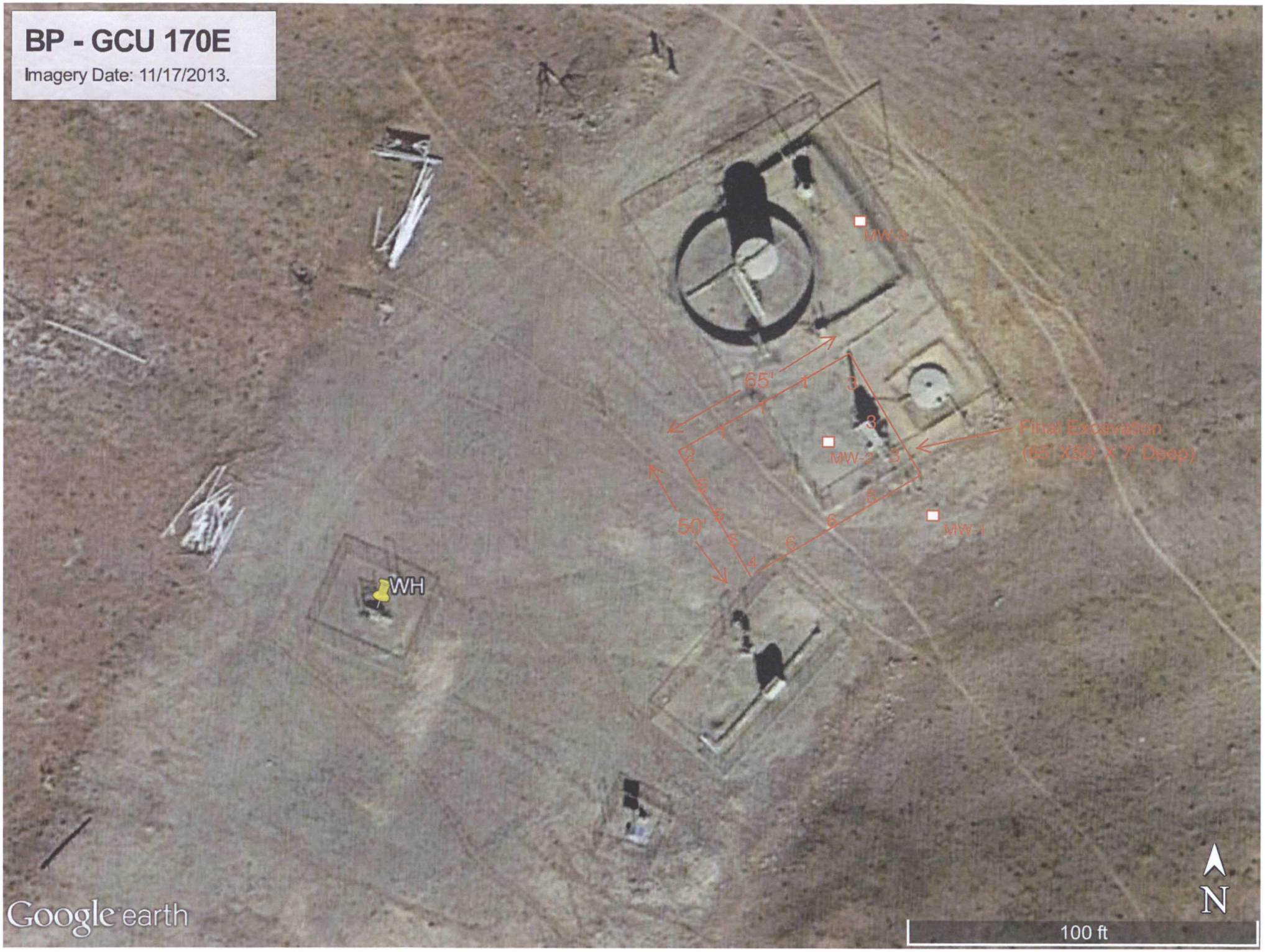
January 23, 2015 Develop monitor wells.

January 26, 2015 Sample source area monitor well MW-2 and down-gradient monitor well MW-3

February 4, 2015 Receive laboratory test reports from monitor well sampling. BTEX non-detect in both wells, find TDS and Sulfate in excess of NMWQCC standards.

February 12, 2015 Sample produced water from on-site low profile tank and submit to laboratory for testing of TDS and Sulfate

February 23, 2015 Receive laboratory test reports from produced water sampling. Lab results indicate that elevated TDS and Sulfate in groundwater is naturally occurring and not from a produced water release from the production operations. (Note: Summary lab results from monitor well and produced water sampling found in following table).


BP - GCU 170E
Imagery Date: 11/17/2013.
MW-3
65'
MW-2
Final Excavation
(65' X50' X 7' Deep)
50'
MW-1
WH
N
100 ft
Google earth

BP AMERICA PRODUCTION COMPANY

GCU 170E - (Fiberglass flowline and Unknown Release discovered during 95 BGT closure)

Unit Letter E, Section 35, T29N, R12W - API Number: 30-045-24175

Field & Laboratory Data from Groundwater Monitor Wells

	FIELD PARAMETERS							
SAMPLE ID	SAMPLE DATE	SAMPLE TIME	DEPTH TO WATER (feet)	TOTAL MW LENGTH (feet)	pH	Conductivity (µmhos/cm)	Temperature (°Celcius)	Volume Purged (gallons)
MW # 2 (source area)	01/26/15	1445	5.90	14.50	7.35	NA	10.9	3.50
MW # 3 (source area)	01/26/15	1045	6.20	14.70	7.40	NA	12.8	3.50
95 bbl AGT PRODUCED WATER	02/12/15	1100	NA	NA	NA	NA	NA	NA
				NMWQCC STANDARDS -	6 - 9			

	LABORATORY PARAMETERS								
SAMPLE ID	Fluoride (mg/L)	Chloride (mg/L)	Sulfate (mg/L)	Nitrate-Nitrite as N (mg/L)	TDS (mg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl - benzene (µg/L)	Total Xylenes (µg/L)
MW # 2 (source area)	0.72	28	**1,500**	ND	**2,660**	ND	ND	ND	ND
MW # 3 (source area)	0.75	46	**1,700**	ND	**2,940**	ND	ND	ND	ND
95 bbl AGT PRODUCED WATER	NA	NA	190	NA	648	NA	NA	NA	NA
NMWQCC STANDARDS -	**1.6**	**250**	**600**	**10**	**1,000**	**10**	**750**	**750**	**620**

Notes: Depth to water measured from casing top of monitor well.
Groundwater standards are applied to values assigned in blue highlighted boxes or confirmed background levels, which ever is higher.

MW - Monitor well
µmhos/cm - Micromhos per centimeter
TDS - Total dissolved solids
mg/L - Milligram per Liter
µg/L - Microgram per liter
ND - Not detected at Reporting Limit
NA - Not available or not applicable
NMWQCC - New Mexico Water Quality Control Commission

Analytical Report
Lab Order **1501901**
Date Reported: **2/4/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #170E
Lab ID: 1501901-001 **Matrix:** AQUEOUS

Client Sample ID: MW # 2
Collection Date: 1/26/2015 2:45:00 PM
Received Date: 1/27/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	1/27/2015 3:38:34 PM	R23926
Toluene	ND	1.0		µg/L	1	1/27/2015 3:38:34 PM	R23926
Ethylbenzene	ND	1.0		µg/L	1	1/27/2015 3:38:34 PM	R23926
Xylenes, Total	ND	2.0		µg/L	1	1/27/2015 3:38:34 PM	R23926
Surr: 4-Bromofluorobenzene	122	66.6-167		%REC	1	1/27/2015 3:38:34 PM	R23926
EPA METHOD 300.0: ANIONS						Analyst: **lgp**	
Fluoride	0.72	0.50		mg/L	5	1/27/2015 1:36:05 PM	R23942
Chloride	28	2.5		mg/L	5	1/27/2015 1:36:05 PM	R23942
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	1/27/2015 1:36:05 PM	R23942
Sulfate	1500	25		mg/L	50	2/2/2015 12:48:05 PM	R24057
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	2660	40.0	*	mg/L	1	1/30/2015 5:10:00 PM	17454

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #170E
Lab ID: 1501901-002 **Matrix:** AQUEOUS

Client Sample ID: MW # 3
Collection Date: 1/26/2015 10:45:00 AM
Received Date: 1/27/2015 7:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	1.0		µg/L	1	1/27/2015 4:33:12 PM	R23926
Toluene	ND	1.0		µg/L	1	1/27/2015 4:33:12 PM	R23926
Ethylbenzene	ND	1.0		µg/L	1	1/27/2015 4:33:12 PM	R23926
Xylenes, Total	ND	2.0		µg/L	1	1/27/2015 4:33:12 PM	R23926
Surr: 4-Bromofluorobenzene	117	66.6-167		%REC	1	1/27/2015 4:33:12 PM	R23926
EPA METHOD 300.0: ANIONS						Analyst: **lgp**	
Fluoride	0.75	0.50		mg/L	5	1/27/2015 2:25:43 PM	R23942
Chloride	46	2.5		mg/L	5	1/27/2015 2:25:43 PM	R23942
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	1/27/2015 2:25:43 PM	R23942
Sulfate	1700	25		mg/L	50	1/29/2015 12:02:09 AM	R23965
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	2940	100	*	mg/L	1	1/30/2015 5:10:00 PM	17454

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2.
RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1501901**

04-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R23942**	RunNo: **23942**
Prep Date:	Analysis Date: **1/27/2015**	SeqNo: **706139** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrate (As N)	ND	0.10								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R23942**	RunNo: **23942**
Prep Date:	Analysis Date: **1/27/2015**	SeqNo: **706140** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.50	0.10	0.5000	0	99.3	90	110			
Chloride	4.8	0.50	5.000	0	96.7	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			

Sample ID **MB-17444**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R23965**	RunNo: **23965**
Prep Date:	Analysis Date: **1/28/2015**	SeqNo: **706782** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS-17444**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R23965**	RunNo: **23965**
Prep Date:	Analysis Date: **1/28/2015**	SeqNo: **706783** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.9	0.50	10.00	0	99.2	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R23965**	RunNo: **23965**
Prep Date:	Analysis Date: **1/28/2015**	SeqNo: **706790** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R23965**	RunNo: **23965**
Prep Date:	Analysis Date: **1/28/2015**	SeqNo: **706791** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.6	0.50	10.00	0	96.3	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1501901**

04-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R24057**	RunNo: **24057**
Prep Date:	Analysis Date: **2/2/2015**	SeqNo: **708996** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R24057**	RunNo: **24057**
Prep Date:	Analysis Date: **2/2/2015**	SeqNo: **708998** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	10	0.50	10.00	0	99.7	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1501901**

04-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBW**	Batch ID: **R23926**	RunNo: **23926**
Prep Date:	Analysis Date: **1/27/2015**	SeqNo: **705588** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	24		20.00		121	66.6	167			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSW**	Batch ID: **R23926**	RunNo: **23926**
Prep Date:	Analysis Date: **1/27/2015**	SeqNo: **705589** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.4	80	120			
Toluene	20	1.0	20.00	0	98.9	80	120			
Ethylbenzene	20	1.0	20.00	0	101	80	120			
Xylenes, Total	64	2.0	60.00	0	107	80	120			
Surr: 4-Bromofluorobenzene	25		20.00		123	66.6	167			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1501901**

04-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID	**MB-17454**	SampType: **MBLK**		TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID:	**PBW**	Batch ID: **17454**		RunNo: **24012**					
Prep Date:	**1/29/2015**	Analysis Date: **1/30/2015**		SeqNo: **708015**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	**LCS-17454**	SampType: **LCS**		TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID:	**LCSW**	Batch ID: **17454**		RunNo: **24012**					
Prep Date:	**1/29/2015**	Analysis Date: **1/30/2015**		SeqNo: **708016**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1501901 RcptNo: 1

Received by/date: 01/27/15

Logged By: Lindsay Mangin 1/27/2015 7:00:00 AM

Completed By: Lindsay Mangin 1/27/2015 7:42:08 AM

Reviewed By: IO 01/27/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☑	No ☐	No VOA Vials ☐
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: **BLAGG ENGR. / BP AMERICA**

Mailing Address: **P.O. BOX 87**
BLOOMFIELD, NM 87413

Phone #: **(505) 632-1199**

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name:
GCU # 170E

Project #:

Project Manager:
NELSON VELEZ

Sampler: **NELSON VELEZ**

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1501901	BTEX + ~~MTBE~~ + ~~TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Cation / Anion Balance		Grab sample	5 pt. composite sample	
1/26/15	1445	WATER	MW # 2	40 ml VOA - 2	HCl & Cool	-001	√													√		
1/26/15	1445	WATER	MW # 2	500 ml - 1	Cool	-001												√		√		
1/26/15	1045	WATER	MW # 3	40 ml VOA - 2	HCl & Cool	-002	√													√		
1/26/15	1045	WATER	MW # 3	500 ml - 1	Cool	-002												√		√		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks: **Report F, Cl, NO_3, SO_4, & TDS only for A/C balance.**
1/26/15	1643			1/26/15	1643	**BILL DIRECTLY TO BP:**
Date:	Time:	Relinquished by:	Received by:	Date	Time	Jeff Peace, 200 Energy Court, Farmington, NM 87401
1/26/15	1747			01/27/15	0720	Paykey: **ZEVH01REME**

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Analytical Report
Lab Order **1502620**
Date Reported: **2/23/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #170E
Lab ID: 1502620-001 **Matrix:** AQUEOUS

Client Sample ID: LP AGT Produced Water
Collection Date: 2/12/2015 11:00:00 AM
Received Date: 2/13/2015 7:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **JRR**	
Sulfate	190	5.0		mg/L	10	2/13/2015 12:32:55 PM	R24319
SM2540C MOD: TOTAL DISSOLVED SOLIDS						Analyst: **KS**	
Total Dissolved Solids	648	40.0	*	mg/L	1	2/19/2015 10:52:00 AM	17789

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1502620**

23-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R24319**	RunNo: **24319**
Prep Date:	Analysis Date: **2/13/2015**	SeqNo: **716676** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	ND	0.50								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R24319**	RunNo: **24319**
Prep Date:	Analysis Date: **2/13/2015**	SeqNo: **716677** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sulfate	9.6	0.50	10.00	0	96.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1502620**

23-Feb-15

Client: Blagg Engineering
Project: GCU #170E

Sample ID	**MB-17789**	SampType: **MBLK**		TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID:	**PBW**	Batch ID: **17789**		RunNo: **24401**					
Prep Date:	**2/17/2015**	Analysis Date: **2/19/2015**		SeqNo: **718882**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	ND	20.0								

Sample ID	**LCS-17789**	SampType: **LCS**		TestCode: **SM2540C MOD: Total Dissolved Solids**					
Client ID:	**LCSW**	Batch ID: **17789**		RunNo: **24401**					
Prep Date:	**2/17/2015**	Analysis Date: **2/19/2015**		SeqNo: **718883**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved Solids	1020	20.0	1000	0	102	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
O	RSD is greater than RSDlimit
R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
ND	Not Detected at the Reporting Limit
P	Sample pH Not In Range
RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1502620 RcptNo: 1

Received by/date: LM 02/13/15

Logged By: **Ashley Gallegos** 2/13/2015 7:15:00 AM AG

Completed By: **Ashley Gallegos** 2/13/2015 10:01:47 AM AG

Reviewed By: CS 02/13/15

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# of preserved bottles checked for pH: (<2 or >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	Adjusted?
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☑ Standard ☐ Rush

Project Name:
GCU # 170E

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1502620	BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	Total Dissolved Solids	8260B (VOA)	8270 (Semi-VOA)	Cation / Anion Balance		Grab sample	5 pt. composite sample	Air Bubbles (Y or N)
2/12/15	1100	WATER	LP AGT PRODUCED WATER	500 ml - 1	Cool	-001								√	√					√		

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
2/12/15	1717			2/12/15	1717
Date:	Time:	Relinquished by:	Received by:	Date	Time
2/12/15	1811			2/12/15	0715

Remarks:

BILL DIRECTLY TO BP:

Jeff Peace, 200 Energy Court, Farmington, NM 87401

Paykey: **ZEVH01REME**

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
West Wall 3-pt @ 4'	P410051-01A	Soil	10/13/14	10/13/14	Glass Jar, 4 oz.
SW Corner @ 4'	P410051-02A	Soil	10/13/14	10/13/14	Glass Jar, 4 oz.
North Wall 3-pt @ 4'	P410051-03A	Soil	10/13/14	10/13/14	Glass Jar, 4 oz.
SE Corner @ 4'	P410051-04A	Soil	10/13/14	10/13/14	Glass Jar, 4 oz.

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

West Wall 3-pt @ 4'

P410051-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*95.3 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	40.0	mg/kg	2	1442006	10/14/14	10/14/14	EPA 8015D	
Surrogate: o-Terphenyl		*99.1 %*		*50-200*	*1442006*	*10/14/14*	*10/14/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*87.0 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.92	mg/kg	1	1442012	10/14/14	10/14/14	EPA 300.0	

Overhead View Map ID: 1

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

SW Corner @ 4'

P410051-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*96.5 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8015D	
Diesel Range Organics (C10-C28)	**95.0**	34.9	mg/kg	1	1442006	10/14/14	10/14/14	EPA 8015D	
Surrogate: o-Terphenyl		*92.9 %*		*50-200*	*1442006*	*10/14/14*	*10/14/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*89.2 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.90	mg/kg	1	1442012	10/14/14	10/14/14	EPA 300.0	

Overhead View Map ID: 2

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

North Wall 3-pt @ 4'

P410051-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*96.9 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	35.0	mg/kg	1	1442006	10/14/14	10/14/14	EPA 8015D	
Surrogate: o-Terphenyl		*102 %*		*50-200*	*1442006*	*10/14/14*	*10/14/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*88.5 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.89	mg/kg	1	1442012	10/14/14	10/14/14	EPA 300.0	

Overhead View Map ID: 3

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

SE Corner @ 4'

P410051-04 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*97.0 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.98	mg/kg	1	1442010	10/13/14	10/14/14	EPA 8015D	
Diesel Range Organics (C10-C28)	**61.4**	40.0	mg/kg	2	1442006	10/14/14	10/14/14	EPA 8015D	
Surrogate: o-Terphenyl		*96.7 %*		*50-200*	*1442006*	*10/14/14*	*10/14/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*88.6 %*		*50-150*	*1442010*	*10/13/14*	*10/14/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.83	mg/kg	1	1442012	10/14/14	10/14/14	EPA 300.0	

Overhead View Map ID: 4

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

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 1442010 - Purge and Trap EPA 5030A										
Blank (1442010-BLK1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*0.389*		"	*0.400*		*97.3*	*50-150*			
LCS (1442010-BS1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Benzene	20.6	0.10	mg/kg	20.0		103	75-125			
Toluene	20.9	0.10	"	20.0		105	70-125			
Ethylbenzene	21.0	0.10	"	20.0		105	75-125			
p,m-Xylene	42.4	0.20	"	39.9		106	80-125			
o-Xylene	20.9	0.10	"	20.0		104	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.405*		"	*0.399*		*101*	*50-150*			
Matrix Spike (1442010-MS1)		**Source: P410050-01**		Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Benzene	19.8	0.10	mg/kg	20.0	ND	99.0	75-125			
Toluene	20.0	0.10	"	20.0	ND	100	70-125			
Ethylbenzene	20.2	0.10	"	20.0	ND	101	75-125			
p,m-Xylene	40.8	0.20	"	40.0	ND	102	80-125			
o-Xylene	20.2	0.10	"	20.0	0.11	100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.408*		"	*0.400*		*102*	*50-150*			
Matrix Spike Dup (1442010-MSD1)		**Source: P410050-01**		Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Benzene	20.0	0.10	mg/kg	20.0	ND	100	75-125	0.928	15	
Toluene	20.2	0.10	"	20.0	ND	101	70-125	1.00	15	
Ethylbenzene	20.3	0.10	"	20.0	ND	102	75-125	0.589	15	
p,m-Xylene	41.2	0.20	"	39.9	ND	103	80-125	0.837	15	
o-Xylene	20.3	0.10	"	20.0	0.11	101	75-125	0.785	15	
Surrogate: 4-Bromochlorobenzene-PID	*0.409*		"	*0.399*		*102*	*50-150*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

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 1442006 - DRO Extraction EPA 3550M										
Blank (1442006-BLK1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	*33.4*		"	*39.9*		*83.7*	*50-200*			
LCS (1442006-BS1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Diesel Range Organics (C10-C28)	429	25.0	mg/kg	500		85.8	38-132			
Surrogate: o-Terphenyl	*40.8*		"	*40.0*		*102*	*50-200*			
Matrix Spike (1442006-MS1)	**Source: P410044-01**			Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Diesel Range Organics (C10-C28)	635	34.9	mg/kg	499	ND	127	38-132			
Surrogate: o-Terphenyl	*48.8*		"	*39.9*		*122*	*50-200*			
Matrix Spike Dup (1442006-MSD1)	**Source: P410044-01**			Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Diesel Range Organics (C10-C28)	662	35.0	mg/kg	499	ND	132	38-132	4.03	20	
Surrogate: o-Terphenyl	*50.5*		"	*40.0*		*127*	*50-200*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

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 1442010 - Purge and Trap EPA 5030A										
Blank (1442010-BLK1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Gasoline Range Organics (C6-C10)	ND	10.0	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	*0.358*		"	*0.400*		*89.5*	*50-150*			
LCS (1442010-BS1)				Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Gasoline Range Organics (C6-C10)	296	9.99	mg/kg	292		101	80-120			
Surrogate: 4-Bromochlorobenzene-FID	*0.370*		"	*0.399*		*92.6*	*50-150*			
Matrix Spike (1442010-MS1)	**Source: P410050-01**			Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Gasoline Range Organics (C6-C10)	284	9.99	mg/kg	292	ND	97.4	75-125			
Surrogate: 4-Bromochlorobenzene-FID	*0.371*		"	*0.400*		*92.7*	*50-150*			
Matrix Spike Dup (1442010-MSD1)	**Source: P410050-01**			Prepared: 13-Oct-14 Analyzed: 14-Oct-14						
Gasoline Range Organics (C6-C10)	287	9.99	mg/kg	292	ND	98.5	75-125	1.02	15	
Surrogate: 4-Bromochlorobenzene-FID	*0.372*		"	*0.399*		*93.1*	*50-150*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	15-Oct-14 15:14

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1442012 - Anion Extraction EPA 300.0										
Blank (1442012-BLK1)				Prepared & Analyzed: 14-Oct-14						
Chloride	ND	9.96	mg/kg							
LCS (1442012-BS1)				Prepared & Analyzed: 14-Oct-14						
Chloride	499	9.88	mg/kg	494		101	90-110			
Matrix Spike (1442012-MS1)	**Source: P410050-01**			Prepared & Analyzed: 14-Oct-14						
Chloride	516	9.95	mg/kg	498	ND	104	80-120			
Matrix Spike Dup (1442012-MSD1)	**Source: P410050-01**			Prepared & Analyzed: 14-Oct-14						
Chloride	519	9.97	mg/kg	499	ND	104	80-120	0.616	20	

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

CHAIN OF CUSTODY RECORD

17879

Client:	Project Name / Location:
BP America	GCU 170E
Email results to: jeffcblagg@aol.com peace.jeffrey@BP.com	Sampler Name: J. Blagg
Client Phone No.: 505-320-1183	Client No.: 03143-0424

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HNO_3	Preservative HCl	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
West Wall 3-pt @ 4'	10/13/2014	1410	P410051-01	1 x 4oz			X	X								X				✓	✓
SW Corner @ 4'	"	1415	P410051-02	"			X	X								X					
North Wall 3-pt @ 4'	"	1420	P410051-03	"			X	X								X					
SE Corner @ 4'	"	1425	P410051-04	"			X	X								X					
											RUSH Bill BP										

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	10/13/2014	1510	[signature]	10/13/14	1510
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ _____

☐ Sample(s) dropped off after hours to secure drop off area.

RUSH

9.3
7.4
9.7

envirotech Analytical Laboratory
5795 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • Three Springs • 65 Mercado Street, Suite 115, Durango, CO 81301 • laboratory@envirotech-inc.com

san juan reproduction 578-129

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

Analyical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
South Wall 3-pt @ 4'	P410060-01A	Soil	10/14/14	10/15/14	Glass Jar, 4 oz.
East Wall 3-pt @ 4'	P410060-02A	Soil	10/14/14	10/15/14	Glass Jar, 4 oz.

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

South Wall 3-pt @ 4'

P410060-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*104 %*		*50-150*	*1442019*	*10/15/14*	*10/16/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	**14.4**	9.99	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8015D	
Diesel Range Organics (C10-C28)	**67.3**	25.0	mg/kg	1	1442023	10/15/14	10/16/14	EPA 8015D	
Surrogate: o-Terphenyl		*82.7 %*		*50-200*	*1442023*	*10/15/14*	*10/16/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*97.6 %*		*50-150*	*1442019*	*10/15/14*	*10/16/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.96	mg/kg	1	1442020	10/15/14	10/15/14	EPA 300.0	

Overhead View Map ID: 5

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

East Wall 3-pt @ 4'

P410060-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Toluene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Ethylbenzene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
p,m-Xylene	ND	0.20	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
o-Xylene	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Total Xylenes	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Total BTEX	ND	0.10	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		*101 %*		*50-150*	*1442019*	*10/15/14*	*10/16/14*	*EPA 8021B*	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg	1	1442019	10/15/14	10/16/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	1442023	10/15/14	10/16/14	EPA 8015D	
Surrogate: o-Terphenyl		*82.1 %*		*50-200*	*1442023*	*10/15/14*	*10/16/14*	*EPA 8015D*	
Surrogate: 4-Bromochlorobenzene-FID		*91.6 %*		*50-150*	*1442019*	*10/15/14*	*10/16/14*	*EPA 8015D*	
Cation/Anion Analysis									
Chloride	ND	9.98	mg/kg	1	1442020	10/15/14	10/15/14	EPA 300.0	

Overhead View Map ID: 6

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

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 1442019 - Purge and Trap EPA 5030A										
Blank (1442019-BLK1)				Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Benzene	ND	0.10	mg/kg							
Toluene	ND	0.10	"							
Ethylbenzene	ND	0.10	"							
p,m-Xylene	ND	0.20	"							
o-Xylene	ND	0.10	"							
Total Xylenes	ND	0.10	"							
Total BTEX	ND	0.10	"							
Surrogate: 4-Bromochlorobenzene-PID	*0.395*		"	*0.400*		*98.9*	*50-150*			
LCS (1442019-BS1)				Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Benzene	18.5	0.10	mg/kg	20.0		92.5	75-125			
Toluene	18.6	0.10	"	20.0		92.9	70-125			
Ethylbenzene	18.7	0.10	"	20.0		93.4	75-125			
p,m-Xylene	37.7	0.20	"	40.0		94.5	80-125			
o-Xylene	18.6	0.10	"	20.0		93.1	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.404*		"	*0.400*		*101*	*50-150*			
Matrix Spike (1442019-MS1)		**Source: P410054-01**		Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Benzene	19.9	0.10	mg/kg	20.0	ND	99.3	75-125			
Toluene	20.0	0.10	"	20.0	ND	100	70-125			
Ethylbenzene	20.1	0.10	"	20.0	ND	100	75-125			
p,m-Xylene	40.6	0.20	"	40.0	ND	102	80-125			
o-Xylene	20.1	0.10	"	20.0	0.11	100	75-125			
Surrogate: 4-Bromochlorobenzene-PID	*0.411*		"	*0.400*		*103*	*50-150*			
Matrix Spike Dup (1442019-MSD1)		**Source: P410054-01**		Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Benzene	20.0	0.10	mg/kg	20.0	ND	100	75-125	0.769	15	
Toluene	20.1	0.10	"	20.0	ND	101	70-125	0.718	15	
Ethylbenzene	20.2	0.10	"	20.0	ND	101	75-125	0.634	15	
p,m-Xylene	40.9	0.20	"	40.0	ND	102	80-125	0.686	15	
o-Xylene	20.3	0.10	"	20.0	0.11	101	75-125	0.844	15	
Surrogate: 4-Bromochlorobenzene-PID	*0.409*		"	*0.400*		*102*	*50-150*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

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 1442019 - Purge and Trap EPA 5030A										
Blank (1442019-BLK1)				Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Gasoline Range Organics (C6-C10)	ND	9.99	mg/kg							
Surrogate: 4-Bromochlorobenzene-FID	*0.361*		"	*0.400*		*90.4*	*50-150*			
LCS (1442019-BS1)				Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Gasoline Range Organics (C6-C10)	265	9.99	mg/kg	292		90.9	80-120			
Surrogate: 4-Bromochlorobenzene-FID	*0.369*		"	*0.400*		*92.2*	*50-150*			
Matrix Spike (1442019-MS1)		**Source: P410054-01**		Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Gasoline Range Organics (C6-C10)	285	10.0	mg/kg	292	ND	97.6	75-125			
Surrogate: 4-Bromochlorobenzene-FID	*0.374*		"	*0.400*		*93.5*	*50-150*			
Matrix Spike Dup (1442019-MSD1)		**Source: P410054-01**		Prepared: 14-Oct-14 Analyzed: 16-Oct-14						
Gasoline Range Organics (C6-C10)	287	9.99	mg/kg	292	ND	98.5	75-125	0.798	15	
Surrogate: 4-Bromochlorobenzene-FID	*0.374*		"	*0.400*		*93.5*	*50-150*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

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 1442023 - DRO Extraction EPA 3550M										
Blank (1442023-BLK1)				Prepared: 15-Oct-14 Analyzed: 16-Oct-14						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Surrogate: o-Terphenyl	*38.8*		"	*40.0*		*97.2*	*50-200*			
LCS (1442023-BS1)				Prepared: 15-Oct-14 Analyzed: 16-Oct-14						
Diesel Range Organics (C10-C28)	464	24.9	mg/kg	499		92.9	38-132			
Surrogate: o-Terphenyl	*45.8*		"	*39.9*		*115*	*50-200*			
Matrix Spike (1442023-MS1)	**Source: P410060-01**			Prepared: 15-Oct-14 Analyzed: 16-Oct-14						
Diesel Range Organics (C10-C28)	444	25.0	mg/kg	500	67.3	75.5	38-132			
Surrogate: o-Terphenyl	*34.6*		"	*40.0*		*86.7*	*50-200*			
Matrix Spike Dup (1442023-MSD1)	**Source: P410060-01**			Prepared: 15-Oct-14 Analyzed: 16-Oct-14						
Diesel Range Organics (C10-C28)	543	25.0	mg/kg	500	67.3	95.1	38-132	19.9	20	
Surrogate: o-Terphenyl	*43.2*		"	*40.0*		*108*	*50-200*			

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

envirotech
Analytical Laboratory

BP America Production Co.	Project Name:	GCU 170E	
PO Box 22024	Project Number:	03143-0424	**Reported:**
Tulsa OK, 74121-2024	Project Manager:	Jeff Blagg	17-Oct-14 09:34

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1442020 - Anion Extraction EPA 300.0										
Blank (1442020-BLK1)				Prepared & Analyzed: 15-Oct-14						
Chloride	ND	9.99	mg/kg							
LCS (1442020-BS1)				Prepared & Analyzed: 15-Oct-14						
Chloride	501	9.93	mg/kg	497		101	90-110			
Matrix Spike (1442020-MS1)	**Source: P410054-01**			Prepared & Analyzed: 15-Oct-14						
Chloride	511	9.94	mg/kg	497	ND	103	80-120			
Matrix Spike Dup (1442020-MSD1)	**Source: P410054-01**			Prepared & Analyzed: 15-Oct-14						
Chloride	514	9.94	mg/kg	497	ND	103	80-120	0.674	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

CHAIN OF CUSTODY RECORD

17885

Client: BP America	Project Name / Location: GCU 170E
Email results to: jeffcblagg@Aol.com peace.jeffrey@BP.com	Sampler Name: J. Blagg
Client Phone No.: 505-632-1199	Client No.: 03143-0424

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative HNO3	Preservative HCl		TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
South Wall 3-pt @ 4'	10/15/14	1042	P410060-01	1 x 4oz				x	x								x				√	√
East wall 3-pt @ 4'	"	1050	P410060-02	"				x	x								x				√	√

RUSH ASAP
Bill BP

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Jeff Blagg	10/15/2014	1136	Diane Zazzin	10/15/14	1137
Relinquished by: (Signature)			Received by: (Signature)		

Sample Matrix
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐ ____________

☐ Sample(s) dropped off after hours to secure drop off area.

envirotech
Analytical Laboratory

7.8
7.8

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

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

03143-097A

Form C-138
Revised August 1, 2011

*Surface Waste Management Facility Operator and Generator shall maintain and make this documentation available for Division inspection.

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. **Generator Name and Address:**
BP America Production Company 200 Energy Ct. Farmington, NM 87401

2. **Originating Site:**
GCU 170E

Oct 2014

3. **Location of Material (Street Address, City, State or ULSTR):**
Unit: E Section: 35 T29N R12W

4. **Source and Description of Waste:** hydrocarbon/condensate impacted soil from historical release on location

Estimated Volume _____ yd^3 / bbls Known Volume (to be entered by the operator at the end of the haul) 486 yd^3 / bbls

5. **GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS**

I, Courtney Cochran, representative or authorized agent for BP America Production Company do hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (Check the appropriate classification)

☒ RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. *Operator Use Only: Waste Acceptance Frequency* ☐ *Monthly* ☐ *Weekly* ☐ *Per Load*

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☒ Process Knowledge ☐ Other (Provide description in Box 4)

GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS

Courtney Cochran, representative for BP America Production Company authorize Envirotech to complete the required testing/sign the Generator Waste Testing Certification.

I, Kendra Rumsey, representative for Envirotech, Inc do hereby certify that representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of 19.15.36 NMAC.

5. **Transporter:** Crossfire

OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility Permit # NM-01-0011

Address of Facility: #43 Road 7175, South of Bloomfield, New Mexico

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

Waste Acceptance Status:

☒ **APPROVED** ☐ **DENIED** (Must Be Maintained As Permanent Record)

PRINT NAME: Kendra Rumsey TITLE: Waste Coordinator DATE: 10-13-14

SIGNATURE: Kendra Rumsey TELEPHONE NO.: 505-632-0615