

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

JAN 20 2017

Form C-141  
Revised August 8, 2011

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

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: Riddle C LS 003A	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004522450	

## LOCATION OF RELEASE

Unit Letter F	Section 29	Township 31N	Range 09W	Feet from the 1,500	North/South Line North	Feet from the 1,800	East/West Line West	County: San Juan
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Latitude 36.872138° Longitude -107.806329°

## NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: none	Date and Hour of Discovery: none
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	



If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted with BTEX and chloride below BGT closure standards. TPH exceeded the BGT closure standard, but remained below the spill and release guidelines for a site ranking of 10. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.\* No action necessary. Final laboratory analysis determined no remedial action is required.

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.

## OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist: 	
Printed Name: Steve Moskal	Approval Date: <u>2/1/2017</u>	Expiration Date:
Title: Field Environmental Coordinator	Conditions of Approval:	
E-mail Address: steven.moskal@bp.com	Attached <input type="checkbox"/>	
Date: December 12, 2016	Phone: 505-326-9497	

NVE1703235219

\* Attach Additional Sheets If Necessary



CLIENT: <b>BP</b>	<b>BLAGG ENGINEERING, INC.</b> <b>P.O. BOX 87, BLOOMFIELD, NM 87413</b> <b>(505) 632-1199</b>	API #: <b>3004522450</b> TANK ID (if applicable): <b>B</b>
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<b>FIELD REPORT:</b> (circle one): <u>BGT CONFIRMATION</u> / RELEASE INVESTIGATION / OTHER:	PAGE #: <b>1</b> of <b>1</b>
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<b>SITE INFORMATION:</b> SITE NAME: <b>RIDDLE C LS # 3A</b> QUAD/UNIT: <b>F</b> SEC: <b>29</b> TWP: <b>31N</b> RNG: <b>9W</b> PM: <b>NM</b> CNTY: <b>SJ</b> ST: <b>NM</b> 1/4 - 1/4/FOOTAGE: <b>1,500'N / 1,800'W SE/NW</b> LEASE TYPE: <u>FEDERAL</u> / STATE / FEE / INDIAN LEASE #: <b>SF078319A</b> PROD. FORMATION: <b>MV</b> CONTRACTOR: <b>STRIKE BP - A. SALAZAR</b>	DATE STARTED: <b>10/13/16</b> DATE FINISHED: ENVIRONMENTAL SPECIALIST(S): <b>NJV</b>
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<b>REFERENCE POINT:</b>	WELL HEAD (W.H.) GPS COORD.: <b>36.87241 X 107.80634</b> GL ELEV.: <b>6,290'</b> 1) <b>95 BGT (SW/DB) - B</b> GPS COORD.: <b>36.872138 X 107.806329</b> DISTANCE/BEARING FROM W.H.: <b>92', S5W</b> 2) GPS COORD.: DISTANCE/BEARING FROM W.H.: 3) GPS COORD.: DISTANCE/BEARING FROM W.H.: 4) GPS COORD.: DISTANCE/BEARING FROM W.H.:
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<b>SAMPLING DATA:</b>	CHAIN OF CUSTODY RECORD(S) # OR LAB USED: <b>HALL</b> 1) SAMPLE ID: <b>5PC - TB @ 5' (95)</b> SAMPLE DATE: <b>10/13/16</b> SAMPLE TIME: <b>1405</b> LAB ANALYSIS: <b>8015B/8021B/300.0 (CI)</b> OVM READING (ppm): <b>NA</b> 2) SAMPLE ID: <b>GRAB @ 8' - (beneath 95 BGT)</b> SAMPLE DATE: <b>10/19/16</b> SAMPLE TIME: <b>1350</b> LAB ANALYSIS: <b>8015B</b> OVM READING (ppm): <b>NA</b> 3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: OVM READING (ppm): 4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS: OVM READING (ppm):
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<b>SOIL DESCRIPTION:</b> SOIL TYPE: <u>SAND</u> / <u>SILTY SAND</u> / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER SOIL COLOR: <b>MODERATE TO DARK YELLOWISH BROWN</b> COHESION (ALL OTHERS): <u>NON COHESIVE</u> / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE</u> / <u>FIRM</u> / DENSE / VERY DENSE MOISTURE: DRY / <u>SLIGHTLY MOIST</u> / MOIST / WET / SATURATED / SUPER SATURATED SAMPLE TYPE: <u>GRAB</u> / <u>COMPOSITE</u> # OF PTS. <b>5</b> DISCOLORATION/STAINING OBSERVED: YES <u>NO</u> 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 <u>NO</u> EXPLANATION - ANY AREAS DISPLAYING WETNESS: YES <u>NO</u> EXPLANATION -
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<b>SITE OBSERVATIONS:</b> LOST INTEGRITY OF EQUIPMENT: YES <u>NO</u> EXPLANATION - APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES <u>NO</u> EXPLANATION: EQUIPMENT SET OVER RECLAIMED AREA: <u>YES</u> / <u>NO</u> EXPLANATION - <b>105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION.</b> OTHER: <b>CONFIRMATION SAMPLE EXCEEDED BGT PERMIT CLOSURE STANDARD FOR TPH. COLLECTED GRAB SAMPLE AT NORTHERN END &amp; BENEATH NEWLY INSTALLED ABOVE-GRADE TANK BY ADVANCING HAND AUGER DIAGONALLY. NMOCD REP. NOT PRESENT TO WITNESS CONFIRMATION SAMPLING.</b> SOIL IMPACT DIMENSION ESTIMATION: <u>NA</u> ft. X <u>NA</u> ft. X <u>NA</u> ft. EXCAVATION ESTIMATION (Cubic Yards): <u>NA</u> DEPTH TO GROUNDWATER: <u>&lt;100'</u> NEAREST WATER SOURCE: <u>&gt;1,000'</u> NEAREST SURFACE WATER: <u>&lt;1,000'</u> NMOCD TPH CLOSURE STD: <b>100</b> ppm	<b>SITE SKETCH</b> BGT Located: off <u>on</u> site PLOT PLAN circle: <u>attached</u> 
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<b>NOTES:</b> 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: <b>GOOGLE EARTH IMAGERY DATE: 3/16/2016.</b> ONSITE: <b>10/13/16</b>	<b>MISCELL. NOTES</b> WO: REF #: <b>P - 694</b> VID: <b>VHIXONEVB2</b> PJ #: Permit date(s): <b>06/02/10</b> OCD Appr. date(s): <b>07/06/16</b> Tank ID: <b>B</b> OVM = Organic Vapor Meter ppm = parts per million BGT Sidewalls Visible: <u>Y</u> / <u>(N)</u> BGT Sidewalls Visible: <u>Y</u> / <u>N</u> BGT Sidewalls Visible: <u>Y</u> / <u>N</u> Magnetic declination: <b>10° E</b>
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## Analytical Report

Lab Order 1610685

Date Reported: 10/17/2016

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-TB@5'(95)-B

Project: Riddle C LS 3A

Collection Date: 10/13/2016 2:05:00 PM

Lab ID: 1610685-002

Matrix: MEOH (SOIL)

Received Date: 10/14/2016 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	10/14/2016 12:04:43 PM	28074
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	110	9.8		mg/Kg	1	10/14/2016 12:58:34 PM	28064
Motor Oil Range Organics (MRO)	200	49		mg/Kg	1	10/14/2016 12:58:34 PM	28064
Surr: DNOP	118	70-130		%Rec	1	10/14/2016 12:58:34 PM	28064
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	10/14/2016 1:09:07 PM	28056
Surr: BFB	86.0	68.3-144		%Rec	1	10/14/2016 1:09:07 PM	28056
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	10/14/2016 1:09:07 PM	28056
Toluene	ND	0.035		mg/Kg	1	10/14/2016 1:09:07 PM	28056
Ethylbenzene	ND	0.035		mg/Kg	1	10/14/2016 1:09:07 PM	28056
Xylenes, Total	ND	0.070		mg/Kg	1	10/14/2016 1:09:07 PM	28056
Surr: 4-Bromofluorobenzene	93.2	80-120		%Rec	1	10/14/2016 1:09:07 PM	28056

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified



[illegible]

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.

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1610B03

Date Reported: 10/26/2016

CLIENT: Blagg Engineering

Client Sample ID: GRAB @ 8' -(beneath 95 BGT)

Project: RIDDLE C LS 3A

Collection Date: 10/19/2016 1:50:00 PM

Lab ID: 1610B03-001

Matrix: SOIL

Received Date: 10/21/2016 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	10/25/2016 11:21:46 AM	28237
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/25/2016 11:21:46 AM	28237
Surr: DNOP	89.3	70-130		%Rec	1	10/25/2016 11:21:46 AM	28237
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/25/2016 10:59:06 PM	28236
Surr: BFB	86.7	68.3-144		%Rec	1	10/25/2016 10:59:06 PM	28236

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
	D	Sample Diluted Due to Matrix	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	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610B03

26-Oct-16

Client: Blagg Engineering

Project: RIDDLE C LS 3A

Sample ID	LCS-28237		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 28237		RunNo: 38183					
Prep Date:	10/24/2016		Analysis Date: 10/25/2016		SeqNo: 1191886		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	62.6	124			
Surr: DNOP	4.7		5.000		93.3	70	130			

Sample ID	MB-28237		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 28237		RunNo: 38183					
Prep Date:	10/24/2016		Analysis Date: 10/25/2016		SeqNo: 1191887		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		109	70	130			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610685

17-Oct-16

Client: Blagg Engineering

Project: Riddle C LS 3A

Sample ID	MB-28074	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	28074	RunNo:	37955					
Prep Date:	10/14/2016	Analysis Date:	10/14/2016	SeqNo:	1183509	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-28074	SampType: LCS			TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID: 28074			RunNo: 37955					
Prep Date:	10/14/2016	Analysis Date: 10/14/2016			SeqNo: 1183510		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610685

17-Oct-16

Client: Blagg Engineering

Project: Riddle C LS 3A

Sample ID	LCS-28064	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	28064	RunNo:	37940					
Prep Date:	10/14/2016	Analysis Date:	10/14/2016	SeqNo:	1182487	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	101	62.6	124			
Surr: DNOP	4.6		5.000		91.3	70	130			

Sample ID	MB-28064	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	28064	RunNo:	37940					
Prep Date:	10/14/2016	Analysis Date:	10/14/2016	SeqNo:	1182488	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		99.7	70	130			

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610685

17-Oct-16

Client: Blagg Engineering

Project: Riddle C LS 3A

Sample ID	MB-28056	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	28056	RunNo:	37953					
Prep Date:	10/13/2016	Analysis Date:	10/14/2016	SeqNo:	1183188	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		98.6	68.3	144			

Sample ID	LCS-28056	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	28056	RunNo:	37953					
Prep Date:	10/13/2016	Analysis Date:	10/14/2016	SeqNo:	1183189	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	119	74.6	123			
Surr: BFB	1100		1000		108	68.3	144			

## Qualifiers:

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
R RPD outside accepted recovery limits  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Detection Limit  
W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610685

17-Oct-16

Client: Blagg Engineering

Project: Riddle C LS 3A

Sample ID	MB-28056	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	28056	RunNo:	37953					
Prep Date:	10/13/2016	Analysis Date:	10/14/2016	SeqNo:	1183226	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.2		1.000		117	80	120			

Sample ID	LCS-28056	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	28056	RunNo:	37953					
Prep Date:	10/13/2016	Analysis Date:	10/14/2016	SeqNo:	1183228	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	106	75.2	115			
Toluene	1.0	0.050	1.000	0	103	80.7	112			
Ethylbenzene	1.0	0.050	1.000	0	101	78.9	117			
Xylenes, Total	3.0	0.10	3.000	0	100	79.2	115			
Surr: 4-Bromofluorobenzene	1.3		1.000		127	80	120			S

## Qualifiers:

- |   |   |
|---|---|
| * Value exceeds Maximum Contaminant Level.              | B Analyte detected in the associated Method Blank           |
| D Sample Diluted Due to Matrix                          | 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                  | P Sample pH Not In Range                                    |
| R RPD outside accepted recovery limits                  | RL Reporting Detection Limit                                |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |





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: **1610685**

RcptNo: **1**

Received by/date:

Logged By: **Lindsay Mangin**

**10/14/16**  
10/14/2016 7:15:00 AM

Completed By: **Lindsay Mangin**

10/14/2016 7:58:45 AM

Reviewed By: **JC 10/14/16**

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ?

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?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

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?

Yes ☒

No ☐

(If no, notify customer for authorization.)

# 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1610B03

26-Oct-16

Client: Blagg Engineering

Project: RIDDLE C LS 3A

Sample ID	MB-28236	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	28236	RunNo:	38202					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1192363	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		85.0	68.3	144			

Sample ID	LCS-28236	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	28236	RunNo:	38202					
Prep Date:	10/24/2016	Analysis Date:	10/25/2016	SeqNo:	1192364	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.8	74.6	123			
Surr: BFB	950		1000		95.4	68.3	144			

## Qualifiers:

* Value exceeds Maximum Contaminant Level.	B Analyte detected in the associated Method Blank
D Sample Diluted Due to Matrix	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	P Sample pH Not In Range
R RPD outside accepted recovery limits	RL Reporting Detection Limit
S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified





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: 1610B03

RcptNo: 1

Received by/date:

LC

10/21/16

Logged By: Lindsay Mangin

10/21/2016 8:15:00 AM

*[Signature]*

Completed By: Lindsay Mangin

10/21/2016 2:27:12 PM

*[Signature]*

Reviewed By:

AJ

10/24/16

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

17. Additional remarks:

### 18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.1	Good	Yes			

[illegible]

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.



505-947-9900

BP AMERICA PRODUCTION COMPANY

RIDDLE C LS 003A

API 3004522450 LEASE NMSF078319A

1500 FNL 1800 FWL (F) SEC 29 T31N R9W

SAN JUAN COUNTY ELEV 6290

LAT 36° 52' 20.784"

LONG 107° 45' 22.788"

