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

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: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Gallegos Canyon Unit 145E	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004524291

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
D	26	29N	12W	790	North	990	West	

Latitude 36.70248 **Longitude** 108.07426

NATURE OF RELEASE

Type of Release: condensate or oil	Volume of Release: N/A	Volume Recovered: none
Source of Release: below grade tank – 45 bbl, Tank B	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: May 3, 2012; 9:25 AM
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.	

OIL CONS. DIV DIST. 3

JAN 08 2015

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 to ensure no soil impacts from the BGT. Soil analysis resulted in chloride below standards. TPH and BTEX exceed the standards in the initial sample. Soil below the BGT on top of sandstone bedrock was excavated and removed, and subsequent soil sampling downgradient of the BGT showed BTEX and TPH below the standards. Analysis results are attached.

Describe Area Affected and Cleanup Action Taken.* BGT was removed and the area underneath the BGT was sampled. Sampling analysis indicated a minor release had occurred. Impacted soil on top of the sandstone bedrock was removed, and soil samples taken adjacent to the BGT and downgradient of the BGT showed no impacts, indicating the release was limited to the soil immediately below the BGT. The area below the BGT was backfilled with clean soil and is still within the active well area.

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: Jeff Peace	OIL CONSERVATION DIVISION
Printed Name: Jeff Peace	Approved by Environmental Specialist: Jonathan D. Kelly
Title: Field Environmental Coordinator	Approval Date: 1/8/2015 Expiration Date:
E-mail Address: peace.jeffrey@bp.com	Conditions of Approval: Attached ☐
Date: December 18, 2014 Phone: 505-326-9479	

* Attach Additional Sheets If Necessary

nJK1500854605

12

CLIENT: BP

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

API #: 3004524291

TANK ID (if applicble): B

FIELD REPORT:

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

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: GCU # 145E

QUAD/UNIT: D SEC: 26 TWP: 29N RNG: 12W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 790'N / 990'W NW/NW LEASE TYPE: [FEDERAL] / STATE / FEE / INDIAN

LEASE #: SF079907 PROD. FORMATION: DK CONTRACTOR: ELKHORN MBF - J. YEAGER

DATE STARTED: 05/03/12

DATE FINISHED: 05/07/12

ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.70267 X 108.07428 GL ELEV.: 5,461'

		GPS COORD.	DISTANCE/BEARING FROM W.H.
1)	45 BGT (SW/DB)	36.70248 X 108.07426	91', S3E
2)			
3)			
4)			

SAMPLING DATA:

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

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	5 PC-TB @ 5' (45 BGT)	05/03/12	0925	418.1/8015B/8021/B/300.0 (Cl)	NA
2)	HA - NWC @ 2.5' (45 BGT)	05/07/12	0950	8015B/8021/B/300.0 (Cl)	0.0
3)	TH @ 4' (45 BGT)	05/07/12	1052	8015B	0.0
4)					

SOIL DESCRIPTION:

SOIL TYPE: [SAND / SILTY SAND] / SILT / SILTY CLAY / CLAY / GRAVEL / [OTHER] BEDROCK (SANDSTONE)

SOIL COLOR: DARK YELLOWISH ORANGE

COHESION (ALL OTHERS): [NON COHESIVE] / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

CONSISTENCY (NON COHESIVE SOILS): [LOOSE / FIRM] / DENSE / VERY DENSE

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: [DRY / SLIGHTLY MOIST] / MOIST / WET / SATURATED / SUPER SATURATED

HC ODOR DETECTED: [YES] / NO EXPLANATION - STRONG DETECTED PHYSICALLY.

SAMPLE TYPE: GRAB / [COMPOSITE] - # OF PTS. 5

DISCOLORATION/STAINING OBSERVED: YES / [NO] EXPLANATION -

ANY AREAS DISPLAYING WETNESS: YES / [NO] EXPLANATION -

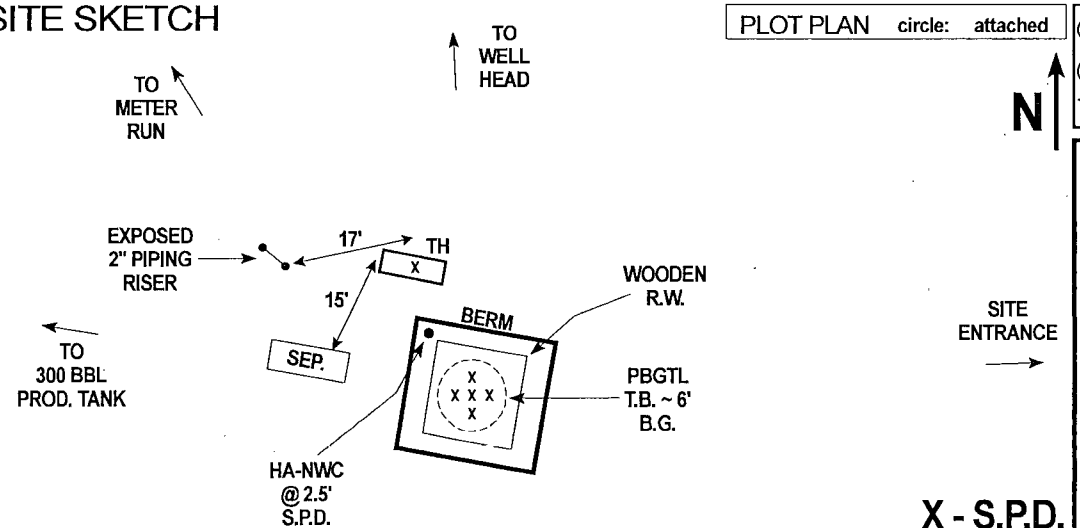
ADDITIONAL COMMENTS: AREA OF APPARENT HYDROCARBON IMPACTS APPEAR @ BOTTOM (ON BEDROCK), WEST, & NORTHWEST CORNER OUTSIDE OF RETAINING WALL (VERY LIMITED QUANTITY). EXCAVATE AND TRANSPORT TO CROUCH MESA LF.

SOIL IMPACT DIMENSION ESTIMATION: 12 ft. X 12 ft. X 1 ft. EXCAVATION ESTIMATION (Cubic Yards) : 5

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 100 ppm

SITE SKETCH

PLOT PLAN circle: attached



OVM CALIB. READ. = 52.1 ppm RF = 0.52

OVM CALIB. GAS = 100 ppm

TIME: 10:50 (am)/pm DATE: 05/04/12

MISCELL. NOTES

WO -N1485530

PO - 72497

PK - ZSCHWLLBGT

PJ # - Z2-00690-C

Permit date(s): 06/14/10

OCD Appr. date(s): 11/30/11

Tank ID

B BGT Sidewalls Visible: (Y) / N / NA

BGT Sidewalls Visible: Y / N / NA

Magnetic declination: 10° E

NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; 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.

TRAVEL NOTES: CALLOUT: ONSITE: 05/03/12 (Sched.), 05/04/12 (Sched.)

Analytical Report
Lab Order **1205341**
Date Reported: **5/16/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #145E
Lab ID: 1205341-001 **Matrix:** SOIL

Client Sample ID: 5PC-TB @ 5' (45 BGT)
Collection Date: 5/3/2012 9:25:00 AM
Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	810	200		mg/Kg	20	5/10/2012 1:43:51 PM
Surr: DNOP	0	77.4-131	S	%REC	20	5/10/2012 1:43:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	1,200	240		mg/Kg	50	5/10/2012 11:13:41 PM
Surr: BFB	177	69.7-121	S	%REC	50	5/10/2012 11:13:41 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Toluene	12	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Ethylbenzene	2.8	2.4		mg/Kg	50	5/10/2012 11:13:41 PM
Xylenes, Total	80	4.7		mg/Kg	50	5/10/2012 11:13:41 PM
Surr: 4-Bromofluorobenzene	96.8	80-120		%REC	50	5/10/2012 11:13:41 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	15		mg/Kg	10	5/10/2012 9:41:45 AM
EPA METHOD 418.1: TPH						Analyst: **JMP**
Petroleum Hydrocarbons, TR	3,300	200		mg/Kg	10	5/14/2012

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.
E	Value above quantitation range
J	Analyte detected below quantitation limits
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
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #145E
Lab ID: 1205341-002 **Matrix:** SOIL

Client Sample ID: HA-NWC @ 2.5' (45 BGT)
Collection Date: 5/7/2012 9:50:00 AM
Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/10/2012 12:38:50 PM
Surr: DNOP	104	77.4-131		%REC	1	5/10/2012 12:38:50 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/10/2012 11:42:26 PM
Surr: BFB	110	69.7-121		%REC	1	5/10/2012 11:42:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.047		mg/Kg	1	5/10/2012 11:42:26 PM
Toluene	ND	0.047		mg/Kg	1	5/10/2012 11:42:26 PM
Ethylbenzene	ND	0.047		mg/Kg	1	5/10/2012 11:42:26 PM
Xylenes, Total	ND	0.095		mg/Kg	1	5/10/2012 11:42:26 PM
Surr: 4-Bromofluorobenzene	94.4	80-120		%REC	1	5/10/2012 11:42:26 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	ND	7.5		mg/Kg	5	5/10/2012 9:54:09 AM

Qualifiers:

*/X	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
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 #145E
Lab ID: 1205341-003 **Matrix:** SOIL

Client Sample ID: TH @ 4' (45 BGT)
Collection Date: 5/7/2012 10:52:00 AM
Received Date: 5/8/2012 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	5/10/2012 1:00:25 PM
Surr: DNOP	106	77.4-131		%REC	1	5/10/2012 1:00:25 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	5/11/2012 12:11:11 AM
Surr: BFB	107	69.7-121		%REC	1	5/11/2012 12:11:11 AM

Qualifiers:

*/X	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
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#: **1205341**

16-May-12

Client: Blagg Engineering
Project: GCU #145E

Sample ID	MB-1873	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS	Batch ID:	1873	RunNo:	2688				
Prep Date:	5/9/2012	Analysis Date:	5/10/2012	SeqNo:	74818	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-1873	SampType:	LCS	TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID:	1873	RunNo:	2688				
Prep Date:	5/9/2012	Analysis Date:	5/10/2012	SeqNo:	74819	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.6	90	110			

Sample ID	1205341-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions				
Client ID:	HA-NWC @ 2.5' (45	Batch ID:	1873	RunNo:	2688				
Prep Date:	5/9/2012	Analysis Date:	5/10/2012	SeqNo:	74825	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	16	7.5	15.00	2.983	85.7	74.6	118			

Sample ID	1205341-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions				
Client ID:	HA-NWC @ 2.5' (45	Batch ID:	1873	RunNo:	2688				
Prep Date:	5/9/2012	Analysis Date:	5/10/2012	SeqNo:	74826	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	7.5	15.00	2.983	83.1	74.6	118	2.42	20	

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205341**

16-May-12

Client: Blagg Engineering

Project: GCU #145E

Sample ID **MB-1901**	SampType: **MBLK**	TestCode: **EPA Method 418.1: TPH**
Client ID: **PBS**	Batch ID: **1901**	RunNo: **2740**
Prep Date: **5/11/2012**	Analysis Date: **5/14/2012**	SeqNo: **76094** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	ND	20								

Sample ID **LCS-1901**	SampType: **LCS**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS**	Batch ID: **1901**	RunNo: **2740**
Prep Date: **5/11/2012**	Analysis Date: **5/14/2012**	SeqNo: **76095** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	110	20	100.0	0	105	87.8	115			

Sample ID **LCSD-1901**	SampType: **LCSD**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS02**	Batch ID: **1901**	RunNo: **2740**
Prep Date: **5/11/2012**	Analysis Date: **5/14/2012**	SeqNo: **76096** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Petroleum Hydrocarbons, TR	100	20	100.0	0	102	87.8	115	2.53	8.04	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205341**

16-May-12

Client: Blagg Engineering

Project: GCU #145E

Sample ID **MB-1867**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **1867**	RunNo: **2674**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **74471** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.8		10.00		98.4	77.4	131			

Sample ID **LCS-1867**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **1867**	RunNo: **2674**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **74472** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.0	62.7	139			
Surr: DNOP	4.5		5.000		90.4	77.4	131			

Sample ID **1205411-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **1867**	RunNo: **2674**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **74684** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.7	48.50	0	85.8	57.2	146			
Surr: DNOP	4.7		4.850		96.2	77.4	131			

Sample ID **1205411-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **BatchQC**	Batch ID: **1867**	RunNo: **2674**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **74685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.9	49.41	0	81.7	57.2	146	3.10	26.7	
Surr: DNOP	4.6		4.941		93.6	77.4	131	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205341**

16-May-12

Client: Blagg Engineering

Project: GCU #145E

Sample ID **MB-1870**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **1870**	RunNo: **2706**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **75310** 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	1,000		1,000		102	69.7	121			

Sample ID **LCS-1870**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **1870**	RunNo: **2706**
Prep Date: **5/9/2012**	Analysis Date: **5/10/2012**	SeqNo: **75311** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	98.5	133			
Surr: BFB	1,100		1,000		108	69.7	121			

Qualifiers:

*/X	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
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1205341

16-May-12

Client: Blagg Engineering

Project: GCU #145E

Sample ID MB-1870	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles
Client ID: PBS	Batch ID: 1870	RunNo: 2706
Prep Date: 5/9/2012	Analysis Date: 5/10/2012	SeqNo: 75373 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		92.7	80	120			

Sample ID LCS-1870	SampType: LCS	TestCode: EPA Method 8021B: Volatiles
Client ID: LCSS	Batch ID: 1870	RunNo: 2706
Prep Date: 5/9/2012	Analysis Date: 5/10/2012	SeqNo: 75374 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.050	1.000	0	89.7	83.3	107			
Toluene	0.93	0.050	1.000	0	93.3	74.3	115			
Ethylbenzene	0.93	0.050	1.000	0	92.9	80.9	122			
Xylenes, Total	2.8	0.10	3.000	0	92.4	85.2	123			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	80	120			

Sample ID 1205412-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles
Client ID: BatchQC	Batch ID: 1870	RunNo: 2706
Prep Date: 5/9/2012	Analysis Date: 5/11/2012	SeqNo: 75381 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.049	0.9843	0	90.0	67.2	113			
Toluene	0.93	0.049	0.9843	0	94.9	62.1	116			
Ethylbenzene	0.91	0.049	0.9843	0	92.8	67.9	127			
Xylenes, Total	2.7	0.098	2.953	0	92.8	60.6	134			
Surr: 4-Bromofluorobenzene	0.96		0.9843		97.9	80	120			

Sample ID 1205412-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles
Client ID: BatchQC	Batch ID: 1870	RunNo: 2706
Prep Date: 5/9/2012	Analysis Date: 5/11/2012	SeqNo: 75382 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.050	0.9970	0	92.9	67.2	113	4.38	14.3	
Toluene	0.96	0.050	0.9970	0	96.6	62.1	116	3.04	15.9	
Ethylbenzene	0.97	0.050	0.9970	0	97.4	67.9	127	6.06	14.4	
Xylenes, Total	3.0	0.10	2.991	0	99.2	60.6	134	7.94	12.6	
Surr: 4-Bromofluorobenzene	0.99		0.9970		99.5	80	120	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- 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: 1205341

Received by/date: MG 05/08/12

Logged By: Michelle Garcia 5/8/2012 10:00:00 AM Michelle Garcia

Completed By: Michelle Garcia 5/8/2012 11:36:05 AM Michelle Garcia

Reviewed By:

Chain of Custody

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

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. 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)

17. 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: _____

18. Additional remarks: pOR NV HEAL #2 collection date 05/07/12
HEAL #3 collection date 05/07/12
MG 05/08/12

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	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 # 145E

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ NV

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0

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

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205341	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO3, NO2, PO4, SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (300.0)		Grab sample	5 pt. composite sample
5/3/12	0925	SOIL	5PC-TB @ 5' (45 BGT)	4 oz. - 2	Cool	-001	✓		✓	✓								✓			✓
5/7/12	0950	SOIL	HA - NWC @ 2.5' (45 BGT)	4 oz. - 1	Cool	-002	✓		✓									✓		✓	
5/8/12	1052	SOIL	TH @ 4' (45 BGT)	4 oz. - 1	Cool	-003			✓											✓	
05/09/12																					

Date	Time	Relinquished by:	Received by:	Date	Time
5/7/12	1415		Christine Walden	5/7/12	1415
5/7/12	1838	Christine Walden	Michelle Garcia	05/08/12	1000

Remarks: TPH (8015B) - GRO & DRO ONLY.

BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N1485530 Paykey: ZSCHWLLBGT

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.