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
OCT 16 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: GCU #245	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 3004511689

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
L	36	28N	12W	1,850	North	1,190	West	

Latitude 36.62094 **Longitude** -108.06738

NATURE OF RELEASE

Type of Release: condensate and produced water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: September 21, 2011; unknown
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.* Hydrocarbon impacted soil discovered during removal of 95 bbl BGT (Tank B). Area below tank did not indicate release of contents at 5' below ground surface. Excavation advanced to 7.5' below ground surface where laboratory samples were collected. Analytical results via 418.1 indicated a release had occurred with a TPH concentration of 120 ppm. However, analysis via 8015 resulted in TPH of 24 ppm. Final analytical results are below the spill guideline standards for TPH and BTEX. Chloride levels of 500 ppm via 300.0 at a depth of 7.5 feet pose no immediate threat.

Describe Area Affected and Cleanup Action Taken.* Hydrocarbon impacted soil encountered during BGT removal was excavated and subsequent laboratory results of sampling at 7.5' below ground surface demonstrate contaminant concentration below soil remediation guidelines for TPH and BTEX and demonstrate chloride levels pose no immediate threat.

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: 4/28/17	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: October 16, 2015 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

#NSK1527850454

16

CLIENT: BP

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

API #: 3004511689
TANK ID (if applicble): B

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / OTHER:
SITE EQUIPMENT LOCATION MODIFIED

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: GCU # 245

QUAD/UNIT: E SEC: 36 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM

1/4 -1/4/FOOTAGE: 1,850'N / 1,190'W NW/SW LEASE TYPE: FEDERAL / STATE / FEE / INDIAN

LEASE #: NM078391C PROD. FORMATION: DK CONTRACTOR: ELKHORN MBF - D. HAGA

DATE STARTED: 09/21/11
DATE FINISHED: 07/11/12
ENVIRONMENTAL SPECIALIST(S): NJV

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.62091 X 108.06791 GL ELEV.: 5,976'

		GPS COORD.	DISTANCE/BEARING FROM W.H.
1)	95 BGT (SW/DB)	36.62094 X 108.06738	160', N84W
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)	5PC-TB @ 5' (95)	09/21/11	1520	418.1/8015B/8021/B/300.0 (Cl)	NA
2)	5PC-TB @ 7.5' (95)	07/11/12	1130	418.1/8015B/8021/B/300.0 (Cl)	NA
3)					
4)					

SOIL DESCRIPTION:

SOIL TYPE: SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER

SOIL COLOR: DARK YELLOWISH ORANGE

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

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

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

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

DISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION -

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

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

HC ODOR DETECTED: YES / NO EXPLANATION -

ANY AREAS DISPLAYING WETNESS: YES / NO EXPLANATION -

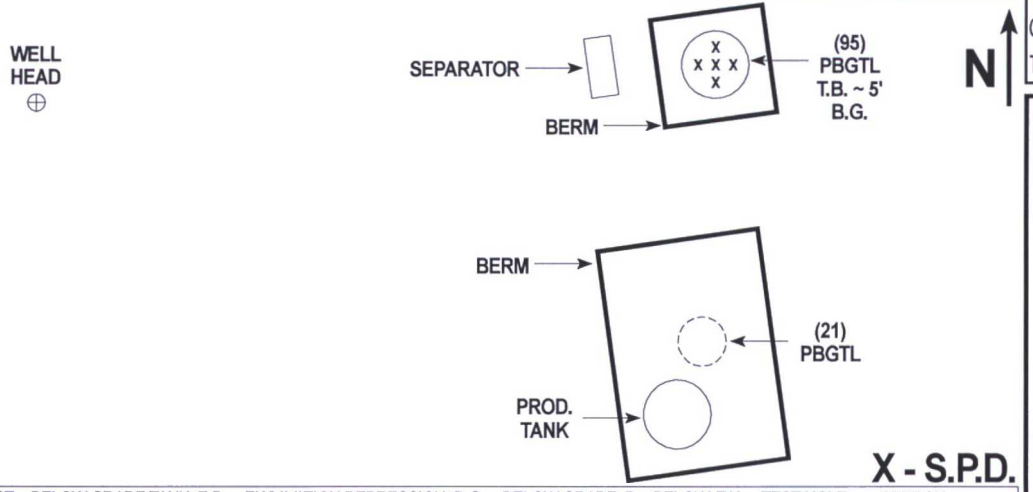
ADDITIONAL COMMENTS: ALL SURFACE EQUIPMENT TO BE REMOVED PRIOR TO WORKOVER RIG ARRIVAL. UPGRADED EQUIPMENT TO BE REINSTALLED AFTER WORKOVER COMPLETION. NO APPARENT EVIDENCE OF A RELEASE OBSERVED FROM BGT. NEW 95 DW/DB BGT TO BE INSTALLED INSTEAD OF 21 BGT LOCATION. SUBSEQUENT SAMPLE COLLECTED DUE TO ORIGINAL COMPOSITE SAMPLE LAB RESULTS.

SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft. EXCAVATION ESTIMATION (Cubic Yards): NA

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



X - S.P.D.

OVM CALIB. READ. = NA ppm RF = 0.52
OVM CALIB. GAS = NA ppm
TIME: NA am/pm DATE: NA

MISCELL. NOTES

WO - N1473171
PO - 61091
PK - ZEGJ01RIGS

Permit Date: 06/08/10
OCD Appr. Date: 09/07/11

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: 09/21/11, 07/11/12

Hall Environmental Analysis Laboratory, Inc.

Date: *04-Oct-11*
Analytical Report

CLIENT:	Blagg Engineering	**Client Sample ID:**	5PC-TB @5' (95 BGT)
Lab Order:	1109909	**Collection Date:**	9/21/2011 3:20:00 PM
Project:	GCU #245	**Date Received:**	9/23/2011
Lab ID:	1109909-01	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JB**
Diesel Range Organics (DRO)	200	100		mg/Kg	10	9/30/2011 7:52:43 AM
Surr: DNOP	0	73.4-123	S	%REC	10	9/30/2011 7:52:43 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **RAA**
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/29/2011 5:02:05 PM
Surr: BFB	93.1	75.2-136		%REC	1	9/29/2011 5:02:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**
Benzene	ND	0.049		mg/Kg	1	9/29/2011 5:02:05 PM
Toluene	ND	0.049		mg/Kg	1	9/29/2011 5:02:05 PM
Ethylbenzene	ND	0.049		mg/Kg	1	9/29/2011 5:02:05 PM
Xylenes, Total	ND	0.098		mg/Kg	1	9/29/2011 5:02:05 PM
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	9/29/2011 5:02:05 PM
EPA METHOD 300.0: ANIONS						Analyst: **SRM**
Chloride	630	30		mg/Kg	20	9/30/2011 2:17:52 AM
EPA METHOD 418.1: TPH						Analyst: **JB**
Petroleum Hydrocarbons, TR	240	20		mg/Kg	1	9/29/2011

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Analytical Report
Lab Order **1207548**
Date Reported: **7/23/2012**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #245
Lab ID: 1207548-001 **Matrix:** SOIL

Client Sample ID: 5PC-TB @ 7.5' (95 BGT)
Collection Date: 7/11/2012 11:30:00 AM
Received Date: 7/13/2012 10:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: **JMP**
Diesel Range Organics (DRO)	24	10		mg/Kg	1	7/18/2012 11:31:10 AM
Surr: DNOP	118	77.6-140		%REC	1	7/18/2012 11:31:10 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: **NSB**
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	7/19/2012 5:27:07 PM
Surr: BFB	102	69.7-121		%REC	1	7/19/2012 5:27:07 PM
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	0.047		mg/Kg	1	7/19/2012 5:27:07 PM
Toluene	ND	0.047		mg/Kg	1	7/19/2012 5:27:07 PM
Ethylbenzene	ND	0.047		mg/Kg	1	7/19/2012 5:27:07 PM
Xylenes, Total	ND	0.093		mg/Kg	1	7/19/2012 5:27:07 PM
Surr: 4-Bromofluorobenzene	110	80-120		%REC	1	7/19/2012 5:27:07 PM
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Chloride	500	15		mg/Kg	10	7/16/2012 11:43:35 AM
EPA METHOD 418.1: TPH						Analyst: **JMP**
Petroleum Hydrocarbons, TR	120	19		mg/Kg	1	7/20/2012

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	U	Samples with CalcVal < MDL

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 # 245

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ nv

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.3

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.	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)			5 pt. composite sample	Air Bubbles (Y or N)
9/21/11	1520	SOIL	5PC-TB @ 5' (95 BGT)	4 oz. - 2	Cool	1109909-1	✓		✓	✓								✓			✓	
~~9/21/11~~	~~1515~~	~~SOIL~~	~~5PC-TB @ 0' (21 BGT)~~	~~4 oz. - 2~~	~~Cool~~	-2	✓		✓	✓								✓			✓	

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/22/11	1530			9/22/11	1530
9/23/11	810			9/23/11	

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

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

Work Order: N1456529 Paykey: ZEGJ01RIES

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

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 # 245

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ NV

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.1

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. 1207548	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
7/11/12	1130	SOIL	5PC-TB @ 7.5' (95 BGT)	4 oz. - 2	Cool	-001	✓		✓	✓								✓			✓

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

Send invoice to :
Blagg Engineering, Inc.
P.O. Box 87
Bloomfield, NM 87413

Date	Time	Relinquished by:	Received by:	Date	Time
7/12/12	1430		Christine Walters	7/12/12	1430
7/12/12	1702	Christine Walters		7/13/12	1005

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.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: GCU #245 **Work Order:** 1109909

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 300.0: Anions											
Sample ID: MB-28618		*MBLK*				Batch ID: **28618**		Analysis Date:	9/29/2011 1:14:20 PM		
Chloride	ND	mg/Kg	1.5								
Sample ID: LCS-28618		*LCS*				Batch ID: **28618**		Analysis Date:	9/29/2011 1:31:45 PM		
Chloride	13.91	mg/Kg	1.5	15	0	92.7	90	110			
Method: EPA Method 418.1: TPH											
Sample ID: MB-28601		*MBLK*				Batch ID: **28601**		Analysis Date:	9/29/2011		
Petroleum Hydrocarbons, TR	ND	mg/Kg	20								
Sample ID: LCS-28601		*LCS*				Batch ID: **28601**		Analysis Date:	9/29/2011		
Petroleum Hydrocarbons, TR	100.5	mg/Kg	20	100	0	101	87.8	115			
Sample ID: LCSD-28601		*LCSD*				Batch ID: **28601**		Analysis Date:	9/29/2011		
Petroleum Hydrocarbons, TR	103.2	mg/Kg	20	100	0	103	87.8	115	2.61	8.04	
Method: EPA Method 8015B: Diesel Range Organics											
Sample ID: MB-28603		*MBLK*				Batch ID: **28603**		Analysis Date:	9/28/2011 9:54:16 AM		
Diesel Range Organics (DRO)	ND	mg/Kg	10								
Sample ID: LCS-28603		*LCS*				Batch ID: **28603**		Analysis Date:	9/28/2011 10:28:40 AM		
Diesel Range Organics (DRO)	55.22	mg/Kg	10	50	4.175	102	66.7	119			
Method: EPA Method 8015B: Gasoline Range											
Sample ID: MB-28579		*MBLK*				Batch ID: **28579**		Analysis Date:	9/27/2011 1:24:32 PM		
Gasoline Range Organics (GRO)	ND	mg/Kg	5.0								
Sample ID: LCS-28579		*LCS*				Batch ID: **28579**		Analysis Date:	9/27/2011 9:33:15 PM		
Gasoline Range Organics (GRO)	29.68	mg/Kg	5.0	25	0	119	86.4	132			
Method: EPA Method 8021B: Volatiles											
Sample ID: MB-28579		*MBLK*				Batch ID: **28579**		Analysis Date:	9/27/2011 1:24:32 PM		
Benzene	ND	mg/Kg	0.050								
Toluene	ND	mg/Kg	0.050								
Ethylbenzene	ND	mg/Kg	0.050								
Xylenes, Total	ND	mg/Kg	0.10								
Sample ID: LCS-28579		*LCS*				Batch ID: **28579**		Analysis Date:	9/27/2011 10:03:14 PM		
Benzene	0.9909	mg/Kg	0.050	1	0.0236	96.7	83.3	107			
Toluene	0.9149	mg/Kg	0.050	1	0.0056	90.9	74.3	115			
Ethylbenzene	1.023	mg/Kg	0.050	1	0.0136	101	80.9	122			
Xylenes, Total	3.143	mg/Kg	0.10	3	0.0227	104	85.2	123			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc. **Date:** *04-Oct-11*

CLIENT: Blagg Engineering
Project: GCU #245
Lab Order: 1109909

CASE NARRATIVE

Analytical Comments for METHOD 8015DRO_S, SAMPLE 1109909-01A: DNOP not recovered due to dilution

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG | Date Received: 9/23/2011

Work Order Number 1109909 | Received by: DAM

Checklist completed by: David (Signature) Date 9/26/11 | Sample ID labels checked by: Initials

Matrix: | Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ✔	No	Not Present	
Custody seals intact on shipping container/cooler?	Yes ✔	No	Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes	No	N/A ✔	
Chain of custody present?	Yes ✔	No		
Chain of custody signed when relinquished and received?	Yes ✔	No		
Chain of custody agrees with sample labels?	Yes ✔	No		
Samples in proper container/bottle?	Yes ✔	No		
Sample containers intact?	Yes ✔	No		
Sufficient sample volume for indicated test?	Yes ✔	No		
All samples received within holding time?	Yes ✔	No		Number of preserved bottles checked for pH:
Water - VOA vials have zero headspace?	No VOA vials submitted ✔	Yes	No	
Water - Preservation labels on bottle and cap match?	Yes	No	N/A ✔	
Water - pH acceptable upon receipt?	Yes	No	N/A ✔	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**3.3°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted | Date contacted: | Person contacted

Contacted by: | Regarding:

Comments:

Corrective Action

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1207548**

23-Jul-12

Client: Blagg Engineering
Project: GCU #245

Sample ID **MB-2830**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **2830**	RunNo: **4050**
Prep Date: **7/16/2012**	Analysis Date: **7/16/2012**	SeqNo: **115812** Units: **mg/Kg**

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

Sample ID **LCS-2830**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **2830**	RunNo: **4050**
Prep Date: **7/16/2012**	Analysis Date: **7/16/2012**	SeqNo: **115813** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.5	90	110			

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#: **1207548**

23-Jul-12

Client: Blagg Engineering

Project: GCU #245

Sample ID **MB-2886**	SampType: **MBLK**	TestCode: **EPA Method 418.1: TPH**
Client ID: **PBS**	Batch ID: **2886**	RunNo: **4187**
Prep Date: **7/18/2012**	Analysis Date: **7/20/2012**	SeqNo: **119938** 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-2886**	SampType: **LCS**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS**	Batch ID: **2886**	RunNo: **4187**
Prep Date: **7/18/2012**	Analysis Date: **7/20/2012**	SeqNo: **119939** 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	104	80	120			

Sample ID **LCSD-2886**	SampType: **LCSD**	TestCode: **EPA Method 418.1: TPH**
Client ID: **LCSS02**	Batch ID: **2886**	RunNo: **4187**
Prep Date: **7/18/2012**	Analysis Date: **7/20/2012**	SeqNo: **119940** 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	101	80	120	3.63	20	

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#: **1207548**

23-Jul-12

Client: Blagg Engineering

Project: GCU #245

Sample ID **MB-2863**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2863**	RunNo: **4105**
Prep Date: **7/17/2012**	Analysis Date: **7/18/2012**	SeqNo: **117564** 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	11		10.00		112	77.6	140			

Sample ID **LCS-2863**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2863**	RunNo: **4105**
Prep Date: **7/17/2012**	Analysis Date: **7/18/2012**	SeqNo: **117565** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	36	10	50.00	0	73.0	52.6	130			
Surr: DNOP	4.3		5.000		85.2	77.6	140			

Sample ID **MB-2911**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **2911**	RunNo: **4133**
Prep Date: **7/19/2012**	Analysis Date: **7/19/2012**	SeqNo: **118627** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		114	77.6	140			

Sample ID **LCS-2911**	SampType: **LCS**	TestCode: **EPA Method 8015B: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **2911**	RunNo: **4133**
Prep Date: **7/19/2012**	Analysis Date: **7/19/2012**	SeqNo: **118783** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.0	77.6	140			

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#: **1207548**

23-Jul-12

Client: Blagg Engineering
Project: GCU #245

Sample ID **MB-2878**	SampType: **MBLK**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **PBS**	Batch ID: **2878**	RunNo: **4160**
Prep Date: **7/18/2012**	Analysis Date: **7/19/2012**	SeqNo: **119360** 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	1000		1000		103	69.7	121			

Sample ID **LCS-2878**	SampType: **LCS**	TestCode: **EPA Method 8015B: Gasoline Range**
Client ID: **LCSS**	Batch ID: **2878**	RunNo: **4160**
Prep Date: **7/18/2012**	Analysis Date: **7/19/2012**	SeqNo: **119361** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	85	115			
Surr: BFB	1100		1000		109	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#: **1207548**

23-Jul-12

Client: Blagg Engineering

Project: GCU #245

Sample ID **MB-2878**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **2878**	RunNo: **4160**
Prep Date: **7/18/2012**	Analysis Date: **7/19/2012**	SeqNo: **119432** 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	1.1		1.000		113	80	120			

Sample ID **LCS-2878**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **2878**	RunNo: **4160**
Prep Date: **7/18/2012**	Analysis Date: **7/19/2012**	SeqNo: **119433** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	99.1	76.3	117			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.1	0.050	1.000	0	105	77	116			
Xylenes, Total	3.2	0.10	3.000	0	106	76.7	117			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

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

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: 1207548

Received by/date: 07/13/12

Logged By: Lindsay Mangin 7/13/2012 10:05:00 AM

Completed By: Lindsay Mangin 7/13/2012 10:54:01 AM

Reviewed By: 07/13/12

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: _____

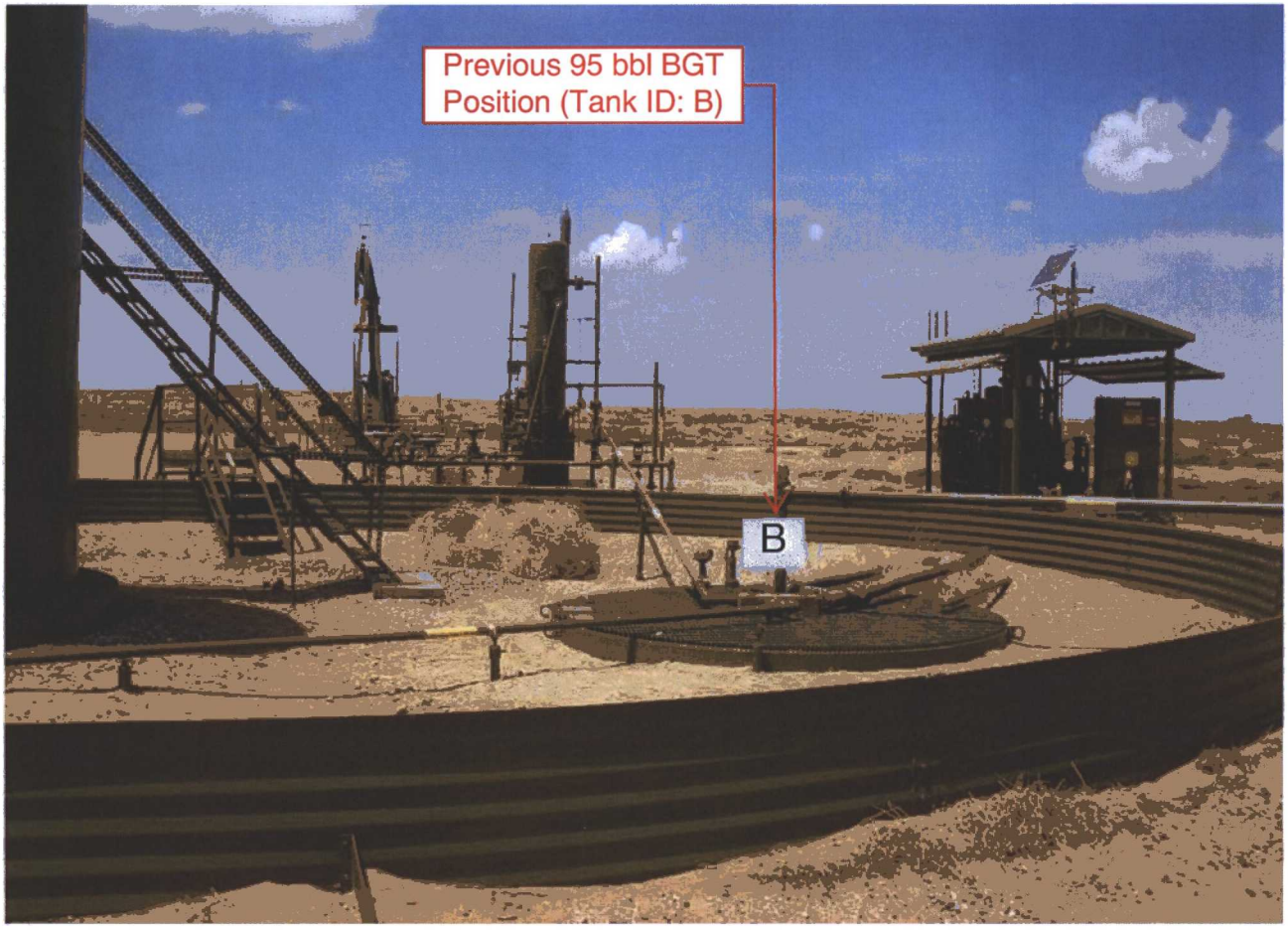
Client Instructions: _____

18. Additional remarks:

19. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes			


505-947-9900
BP AMERICA PRODUCTION COMPANY
GALLEGOS CANYON UNIT 245
API 3004511689 LEASE NMNM78391C
1850 FNL 1190 FWL (E) SEC 36 T28N R12W
San Juan County ELEV 5976
LAT 36° 37' 15.276"
LONG 108° 4' 4.548"


Previous 95 bbl BGT
Position (Tank ID: B)
B