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: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Gallegos Canyon Unit 363	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 3004526883

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
B	26	29N	13W	1,265	North	1,805	East	

Latitude 36.7012634° **Longitude** -108.1725922°

NATURE OF RELEASE

Type of Release: produced water	Volume of Release: 8.7 bbl	Volume Recovered: 7.0 bbl
Source of Release: Failed automation on an above ground tank	Date and Hour of Occurrence: April 2, 2016; unknown	Date and Hour of Discovery: April 2, 2016 12:30 PM
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.* Water truck driver arrived on location to find the above grade tank overflowing produced water tank leaking into the bermed area. The fluid from the AGT and saturated through the bermed. The fluid in the area was removed. The stained area was sampled and gypsum was raked into the surface

Describe Area Affected and Cleanup Action Taken.* The fluid was removed from the tank and bermed area. Soil was raked in place. Samples were collected and analyzed for BTEX, TPH via 8015 and chlorides. Results determine no hydrocarbon or volatile impacts, only chloride exceeded the closure standard. On August 10, 2016, two 40 lbs. bag of gypsum was applied to the impacted area and was raked in. Attached is a field report and sample results from the initial event in April 2016 and from the subsequent event in August 2016. BP requests no further action is necessary. Final reclamation will be performed during decommissioning of the production well.

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: 11/3/2016	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval: NVF1630850930	Attached ☐
Date: August 23, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary

30

CLIENT: BP

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

API #: 30-045-26882
TANK ID (if applicable): —

FIELD REPORT:

(circle one): BGT CONFIRMATION / (RELEASE INVESTIGATION) / OTHER: @ FIBERGLASS AGT

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: GCU 363
DATE STARTED: 4/5/2016
DATE FINISHED: 8/10/2016
QUAD/UNIT: B SEC: 26 TWP: 29N RNG: 13W PM: NM CNTY: SJ ST: NM
1/4 -1/4/FOOTAGE: 1265 FNL x 1805 FEL LEASE TYPE: FEDERAL / STATE / FEE / INDIAN
LEASE #: NMSF 078926 PROD. FORMATION: PC CONTRACTOR: —
ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.70114 x 108.17223 GL ELEV.: 5,722

1) — GPS COORD.: — DISTANCE/BEARING FROM W.H.: —
2) — GPS COORD.: — DISTANCE/BEARING FROM W.H.: —
3) — GPS COORD.: — DISTANCE/BEARING FROM W.H.: —
4) — GPS COORD.: — DISTANCE/BEARING FROM W.H.: —

SAMPLING DATA:

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

					Lab Chloride Results	OVM READING (ppm)
1) SAMPLE ID: WATER RELEASE S-PT 6"-9"	SAMPLE DATE: 4/5/2016	SAMPLE TIME: 1103	LAB ANALYSIS: TPH/BTEX/CL		7,300 ppm	—
2) SAMPLE ID: WATER RELEASE S-PT 5"-8"	SAMPLE DATE: 8/10/2016	SAMPLE TIME: 1427	LAB ANALYSIS: TPH/BTEX/CL		1,800 ppm	—
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:	(Note: TPH and BTEX test ND on both sample events)		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:	LAB ANALYSIS:			

SOIL DESCRIPTION:

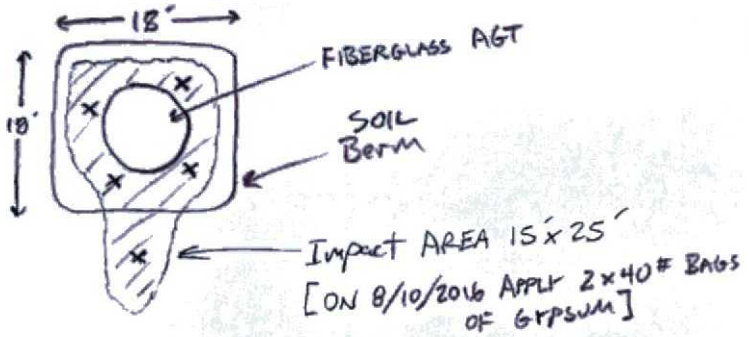
SOIL TYPE: SAND / (SILTY SAND) / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER —
SOIL COLOR: TAN
COHESION (ALL OTHERS): NON COHESIVE / (SLIGHTLY COHESIVE) / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE / (FIRM) / DENSE / VERY DENSE
MOISTURE: DRY / SLIGHTLY MOIST / MOIST / (WET / SATURATED) / SUPER SATURATED
SAMPLE TYPE: GRAB / (COMPOSITE) - # OF PTS. 5
DISCOLORATION/STAINING OBSERVED: (YES) / NO EXPLANATION - WHITE STAIN @ Edges
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 - Around Tank

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / (NO) EXPLANATION - TANK Integrity Good - OVERFLOW
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: (YES) / NO EXPLANATION: Wet on 4/5/2016. White Stain on 8/10/2016
EQUIPMENT SET OVER RECLAIMED AREA: YES / (NO) EXPLANATION -
OTHER: SAMPLE SURFACE SOILS TO Determine Impact CONCENTRATIONS ON 4/5/2016
8/10/2016: SITE DRY - Resample Impact AREA then Spread 2x40# BAGS GYPSUM.
SOIL IMPACT DIMENSION ESTIMATION: 15 ft. X 25 ft. X 0.5 ft. EXCAVATION ESTIMATION (Cubic Yards): —
DEPTH TO GROUNDWATER: > 100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000 NMOCD TPH CLOSURE STD: 5,000 ppm

SITE SKETCH

BGT Located: off / on site | PLOT PLAN circle: attached



X = Composite Sample Points

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

MISCELL. NOTES

WO: —
PO #: —
PK: VMOS6HQFEC
PJ #:
Permit date(s): —
OCD Appr. date(s): —

Tank ID	OVM = Organic Vapor Meter ppm = parts per million
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

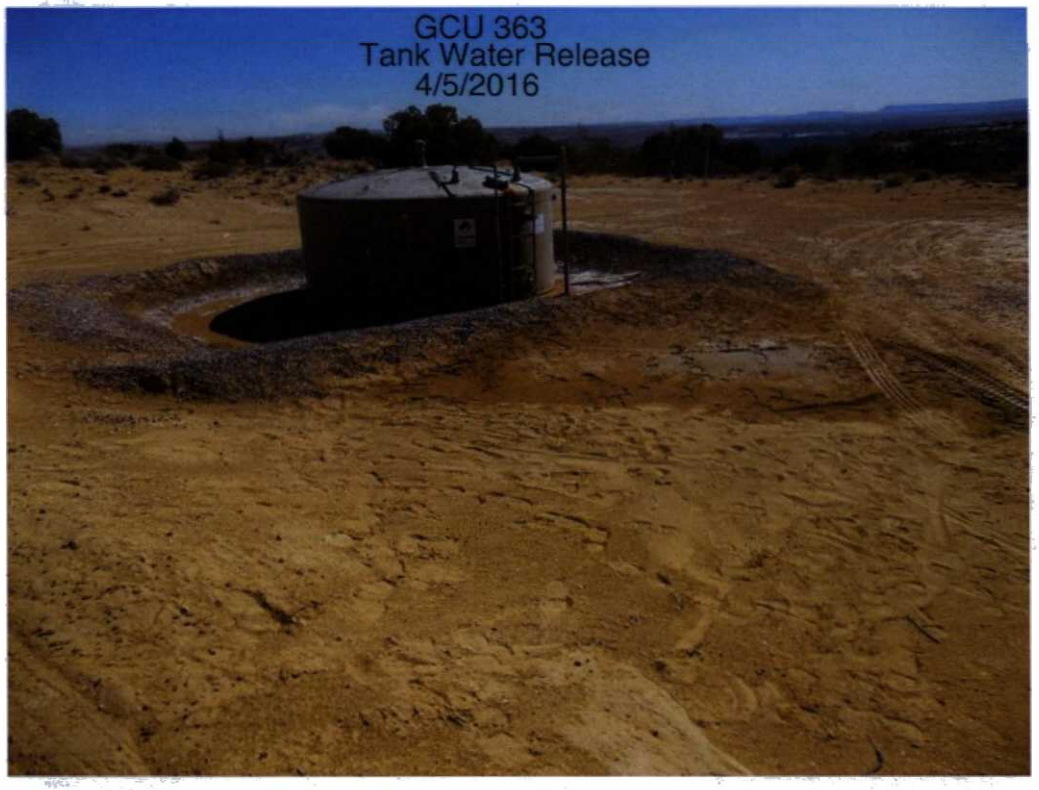
Magnetic declination: 10° E

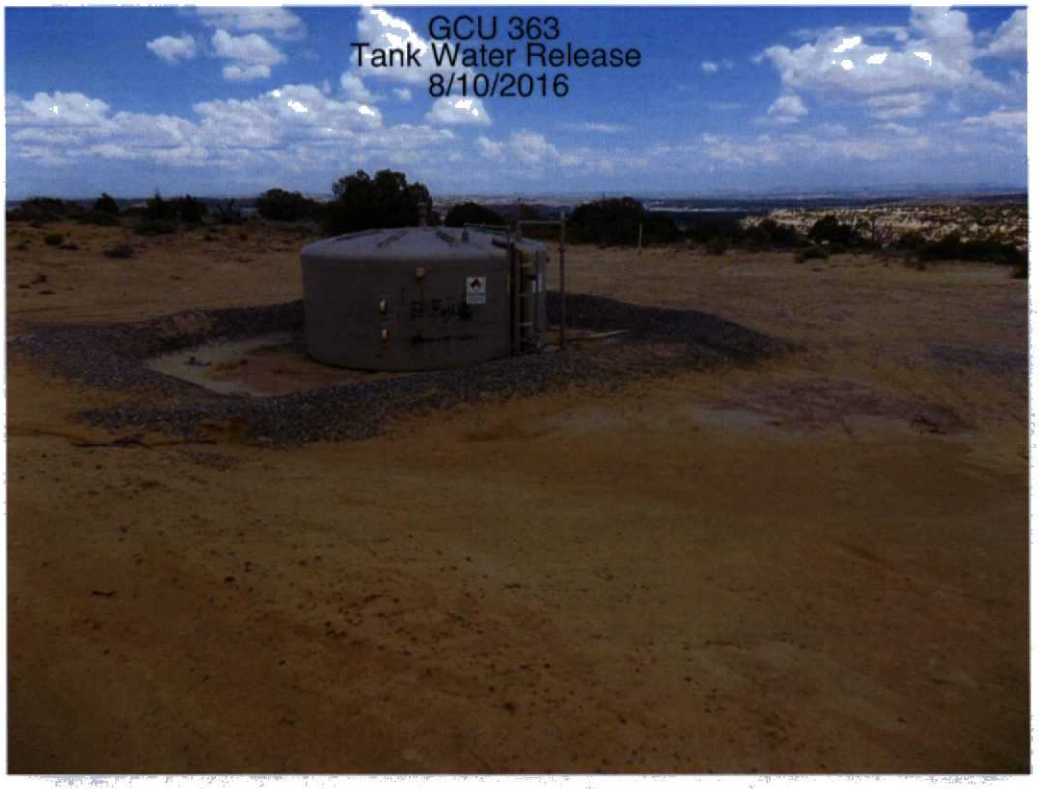
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: — ONSITE: 4/5/2016 & 8/10/2016

revised: 11/26/13

BEI1005E-6.SKF


GCU 363
Tank Water Release
4/5/2016


GCU 363
Tank Water Release
8/10/2016

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

April 15, 2016

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: GCU 363 OrderNo.: 1604278

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 4/6/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 363
Lab ID: 1604278-001 **Matrix:** SOIL

Client Sample ID: Water Release 5-pt @ 6"-9"
Collection Date: 4/5/2016 11:03:00 AM
Received Date: 4/6/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	7300	300		mg/Kg	200	4/13/2016 3:25:07 PM	24742
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **KJH**	
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	4/11/2016 6:23:37 PM	24685
Surr: DNOP	75.1	70-130		%Rec	1	4/11/2016 6:23:37 PM	24685
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	4/11/2016 9:57:52 AM	24697
Surr: BFB	105	80-120		%Rec	1	4/11/2016 9:57:52 AM	24697
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.023		mg/Kg	1	4/11/2016 9:57:52 AM	24697
Toluene	ND	0.047		mg/Kg	1	4/11/2016 9:57:52 AM	24697
Ethylbenzene	ND	0.047		mg/Kg	1	4/11/2016 9:57:52 AM	24697
Xylenes, Total	ND	0.094		mg/Kg	1	4/11/2016 9:57:52 AM	24697
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	4/11/2016 9:57:52 AM	24697

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#: **1604278**

15-Apr-16

Client: Blagg Engineering
Project: GCU 363

Sample ID	**MB-24742**	SampType: **MBLK**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **24742**		RunNo: **33467**					
Prep Date:	**4/11/2016**	Analysis Date: **4/11/2016**		SeqNo: **1029376**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-24742**	SampType: **LCS**		TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **24742**		RunNo: **33467**					
Prep Date:	**4/11/2016**	Analysis Date: **4/11/2016**		SeqNo: **1029377**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	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#: **1604278**

15-Apr-16

Client: Blagg Engineering
Project: GCU 363

Sample ID **LCS-24685**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **24685**	RunNo: **33431**
Prep Date: **4/7/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028306** 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	95.9	65.8	136			
Surr: DNOP	4.1		5.000		82.1	70	130			

Sample ID **MB-24685**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **24685**	RunNo: **33431**
Prep Date: **4/7/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028307** 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	7.9		10.00		79.4	70	130			

Sample ID **LCS-24721**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **24721**	RunNo: **33451**
Prep Date: **4/11/2016**	Analysis Date: **4/12/2016**	SeqNo: **1028810** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.9		5.000		78.3	70	130			

Sample ID **MB-24721**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **24721**	RunNo: **33451**
Prep Date: **4/11/2016**	Analysis Date: **4/12/2016**	SeqNo: **1028811** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		80.7	70	130			

Sample ID **LCS-24759**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **24759**	RunNo: **33451**
Prep Date: **4/12/2016**	Analysis Date: **4/13/2016**	SeqNo: **1030989** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		73.6	70	130			

Sample ID **MB-24759**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **24759**	RunNo: **33451**
Prep Date: **4/12/2016**	Analysis Date: **4/13/2016**	SeqNo: **1030990** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.5		10.00		74.8	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#: **1604278**

15-Apr-16

Client: Blagg Engineering
Project: GCU 363

Sample ID **MB-24697**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **24697**	RunNo: **33445**
Prep Date: **4/8/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028431** 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		104	80	120			

Sample ID **LCS-24697**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **24697**	RunNo: **33445**
Prep Date: **4/8/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028432** 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	98.4	80	120			
Surr: BFB	1100		1000		111	80	120			

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#: **1604278**

15-Apr-16

Client: Blagg Engineering
Project: GCU 363

Sample ID **MB-24697**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **24697**	RunNo: **33445**
Prep Date: **4/8/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028486** 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	1.1		1.000		109	80	120			

Sample ID **LCS-24697**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **24697**	RunNo: **33445**
Prep Date: **4/8/2016**	Analysis Date: **4/11/2016**	SeqNo: **1028487** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.7	75.3	123			
Toluene	0.89	0.050	1.000	0	89.1	80	124			
Ethylbenzene	0.88	0.050	1.000	0	87.7	82.8	121			
Xylenes, Total	2.6	0.10	3.000	0	87.1	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

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

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: 1604278 RcptNo: 1

Received by/date: 04/06/16

Logged By: Ashley Gallegos 4/6/2016 7:25:00 AM

Completed By: Ashley Gallegos 4/7/2016 11:39:37 AM

Reviewed By: 04/07/16

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° 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	1.1	Good	Yes			

Chain-of-Custody Record

Client: BP AMERICA
BLAGG ENGINEERING
Mailing Address:

Phone #: 505-320-1183
Email or Fax#:
QA/QC Package:
(Standard) ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
(Standard) ☐ Rush
Project Name: GCU 363
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: (Yes) ☐ No
Sample Temperature: 1.1

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. 1604278	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
4/2016	1103	SOIL	WATER Release 5-pt @ 6"-9"	4oz x 1	COOL	-001	X		X									X				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
4/5/16	1810	J. Blagg	Christine Walker	4/5/16	1810	Bill BP
4/6/16	1837	Christine Walker		04/06/16	0725	CONTACT: STEVE MOSCAL
						VID: VMOS6HQFEC

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

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

August 22, 2016

Jeff Blagg
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 632-1199
FAX (505) 632-3903

RE: GCU 363 OrderNo.: 1608693

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 1 sample(s) on 8/11/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1608693**
Date Reported: **8/22/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 363
Lab ID: 1608693-001 **Matrix:** SOIL

Client Sample ID: Water Release 5-pt @ 5"-8"
Collection Date: 8/10/2016 2:27:00 PM
Received Date: 8/11/2016 6:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **LGT**	
Chloride	1800	75		mg/Kg	50	8/18/2016 4:34:13 PM	27014
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **TOM**	
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/16/2016 6:47:00 AM	26952
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/16/2016 6:47:00 AM	26952
Surr: DNOP	91.9	70-130		%Rec	1	8/16/2016 6:47:00 AM	26952
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	8/16/2016 1:06:29 AM	26953
Surr: BFB	80.1	68.3-144		%Rec	1	8/16/2016 1:06:29 AM	26953
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	8/16/2016 1:06:29 AM	26953
Toluene	ND	0.048		mg/Kg	1	8/16/2016 1:06:29 AM	26953
Ethylbenzene	ND	0.048		mg/Kg	1	8/16/2016 1:06:29 AM	26953
Xylenes, Total	ND	0.096		mg/Kg	1	8/16/2016 1:06:29 AM	26953
Surr: 4-Bromofluorobenzene	105	80-120		%Rec	1	8/16/2016 1:06:29 AM	26953

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#: **1608693**

22-Aug-16

Client: Blagg Engineering
Project: GCU 363

Sample ID	**MB-27014**	SampType: **MBLK**			TestCode: **EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID: **27014**			RunNo: **36535**				
Prep Date:	**8/16/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131490**	Units: **mg/Kg**			

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

Sample ID	**LCS-27014**	SampType: **LCS**			TestCode: **EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID: **27014**			RunNo: **36535**				
Prep Date:	**8/16/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131491**	Units: **mg/Kg**			

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.1	90	110			

Qualifiers:

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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#: **1608693**

22-Aug-16

Client: Blagg Engineering
Project: GCU 363

Sample ID **LCS-26952**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **26952**			RunNo: **36499**					
Prep Date: **8/12/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131127**		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	103	62.6	124			
Surr: DNOP	4.7		5.000		94.7	70	130			

Sample ID **MB-26952**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **26952**			RunNo: **36499**					
Prep Date: **8/12/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131128**		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	8.5		10.00		85.3	70	130			

Sample ID **LCS-26990**	SampType: **LCS**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **LCSS**	Batch ID: **26990**			RunNo: **36499**					
Prep Date: **8/15/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131339**		Units: **%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		91.9	70	130			

Sample ID **MB-26990**	SampType: **MBLK**			TestCode: **EPA Method 8015M/D: Diesel Range Organics**					
Client ID: **PBS**	Batch ID: **26990**			RunNo: **36499**					
Prep Date: **8/15/2016**	Analysis Date: **8/16/2016**			SeqNo: **1131341**		Units: **%Rec**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		108	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#: **1608693**

22-Aug-16

Client: Blagg Engineering
Project: GCU 363

Sample ID	MB-26953	SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS	Batch ID:	26953		RunNo:	36508				
Prep Date:	8/12/2016	Analysis Date:	8/15/2016		SeqNo:	1130701	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	760		1000		75.7	68.3	144			

Sample ID	LCS-26953	SampType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS	Batch ID:	26953		RunNo:	36508				
Prep Date:	8/12/2016	Analysis Date:	8/15/2016		SeqNo:	1130702	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	5.0	25.00	0	81.2	80	120			
Surr: BFB	860		1000		85.6	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1608693**

22-Aug-16

Client: Blagg Engineering
Project: GCU 363

Sample ID **MB-26953**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26953**	RunNo: **36508**
Prep Date: **8/12/2016**	Analysis Date: **8/15/2016**	SeqNo: **1130726** 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	1.0		1.000		99.8	80	120			

Sample ID **LCS-26953**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26953**	RunNo: **36508**
Prep Date: **8/12/2016**	Analysis Date: **8/15/2016**	SeqNo: **1130727** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	75.3	123			
Toluene	1.0	0.050	1.000	0	102	80	124			
Ethylbenzene	0.96	0.050	1.000	0	96.4	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	95.8	83.9	122			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

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
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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: 1608693 | RcptNo: 1

Received by/date: LM 08/11/16

Logged By: Michelle Garcia 8/11/2016 6:45:00 AM Michelle Garcia

Completed By: Michelle Garcia 8/11/2016 3:02:52 PM Michelle Garcia

Reviewed By: aJ 08/11/16

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° 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	2.1	Good	Yes			

Chain-of-Custody Record

Client: BP AMERICA
Blagg Engineering
Mailing Address:

Phone #: 505-320-1183
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush
Project Name: GCU 363
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
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

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1608693	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
8/10/2016	1427	SOIL	water Release 5-pt @ 5'-8'	4 oz x1	COOL	-001	X		X									X				

Analysis Request

Remarks: BILL BP
CONTACT: STEVE MOSKAL
VID: VMOSGHQFEC

Date	Time	Relinquished by:	Received by:	Date	Time
8/10/2016	1710	Jeff Blagg	Christy Walle	8/10/16	1710
8/10/16	2040	Christy Walle		08/11/16	0845

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