

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

JUL 20 2017

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 290	Facility Type: Natural gas well

Surface Owner: Fee	Mineral Owner: Fee	API No. 3004523821
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**LOCATION OF RELEASE**

Unit Letter J	Section 15	Township 28N	Range 12W	Feet from the 1,520	North/South Line South	Feet from the 1,530	East/West Line East	County: San Juan
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Latitude 36.65907° Longitude -108.09518°

**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 for BTEX and TPH below BGT closure standards. Chloride concentrations were elevated, but at a depth of 5 feet below ground surface with an estimated depth to groundwater of >100' the levels pose no significant threat to surface or groundwater, meeting requirements of 19.15.17.13 Table 1. Field reports and laboratory results are attached.

Describe Area Affected and Cleanup Action Taken.\* No action necessary. The soil meets the BGT closure standard of a minimum of 4' of cover. Closure meets 19.15.17.13 Table 1 standards. 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.

Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: 8/10/2017	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: July 18, 2017	Phone: 505-326-9497	

\* Attach Additional Sheets If Necessary

NCS1703137147

OIL CONS. DIV DIST. 3

JUL 20 2017

CLIENT: **BP** **BLAGG ENGINEERING, INC.**  
**P.O. BOX 87, BLOOMFIELD, NM 87413**  
**(505) 632-1199** API #: **3004523821**  
TANK ID (if applicable): **B**

**FIELD REPORT:**

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

PAGE #: **1** of **1**

SITE INFORMATION: SITE NAME: **GCU # 290**  
QUAD/UNIT: **J** SEC: **15** TWP: **28N** RNG: **12W** PM: **NM** CNTY: **SJ** ST: **NM**  
1/4 -1/4/FOOTAGE: **1,520'S / 1,530'E** **NW/SE** LEASE TYPE: FEDERAL / STATE  FEE / INDIAN  
LEASE #: **-** PROD. FORMATION: **PC** CONTRACTOR: **STRIKE BP - A. SALAZAR**

DATE STARTED: **05/17/16**  
DATE FINISHED:  
ENVIRONMENTAL SPECIALIST(S): **NJV**

REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: **36.65917 X 108.09528** GL ELEV.: **5,660'**  
1) **95 BGT (DW/DB)** GPS COORD.: **36.65907 X 108.09518** DISTANCE/BEARING FROM WH.: **43.5', S30E**  
2) GPS COORD.: DISTANCE/BEARING FROM WH.:  
3) GPS COORD.: DISTANCE/BEARING FROM WH.:  
4) GPS COORD.: DISTANCE/BEARING FROM WH.:

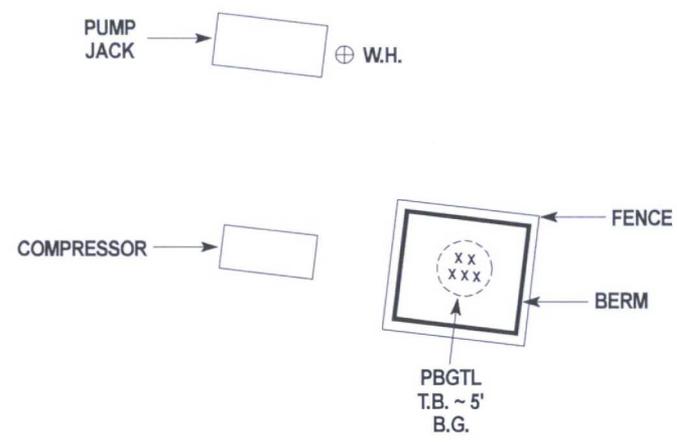
SAMPLING DATA: CHAIN OF CUSTODY RECORD(S) # OR LAB USED: **HALL** OVM READING (ppm) **NA**  
1) SAMPLE ID: **5PC - TB @ 5' (95)** SAMPLE DATE: **05/17/16** SAMPLE TIME: **1025** LAB ANALYSIS: **8015B/8021B/300.0 (CI)**  
2) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:  
3) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:  
4) SAMPLE ID: SAMPLE DATE: SAMPLE TIME: LAB ANALYSIS:

SOIL DESCRIPTION: SOIL TYPE:  SAND  SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL  OTHER **BEDROCK (SANDSTONE)**  
SOIL COLOR: **MODERATE BROWN TO OLIVE GRAY** PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC  
COHESION (ALL OTHERS):  NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE  HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD  
CONSISTENCY (NON COHESIVE SOILS): LOOSE  FIRM / DENSE  VERY DENSE HC ODOR DETECTED: YES  NO EXPLANATION -  
MOISTURE: DRY  SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED  
SAMPLE TYPE: GRAB  COMPOSITE # OF PTS. **5** ANY AREAS DISPLAYING WETNESS: YES  NO EXPLANATION -  
DISCOLORATION/STAINING OBSERVED: YES  NO EXPLANATION -

SITE OBSERVATIONS: LOST INTEGRITY OF EQUIPMENT: YES  NO EXPLANATION -  
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES  NO EXPLANATION:  
EQUIPMENT SET OVER RECLAIMED AREA:  YES / NO EXPLANATION - **105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION.**  
OTHER: **BEDROCK ENCOUNTERED @ 5.5 FT. BELOW GRADE. SANDSTONE - OLIVE GRAY IN COLOR. OCD & BLM REPS ON-SITE TO WITNESS**

SAMPLE COLLECTION.  
SOIL IMPACT DIMENSION ESTIMATION: **NA** ft. X **NA** ft. X **NA** ft. EXCAVATION ESTIMATION (Cubic Yards): **NA**  
DEPTH TO GROUNDWATER: **>100'** NEAREST WATER SOURCE: **>1,000'** NEAREST SURFACE WATER: **<1,000'** NMOCD TPH CLOSURE STD: **1,000** ppm

SITE SKETCH BGT Located: off  on site PLOT PLAN circle: **attached**  
OVM CALIB. READ. = **NA** ppm RF=0.52  
OVM CALIB. GAS = **NA** ppm  
TIME: **NA** am/pm DATE: **NA**



MISCELL. NOTES  
WO:  
REF #: **P - 630**  
VID: **VHIX0NEVB2**  
PJ #:  
Permit date(s): **06/08/10**  
OCD Appr. date(s): **05/25/11**  
Tank ID: **B** OVM = Organic Vapor Meter ppm = parts per million  
**B** 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: **GOOGLE EARTH IMAGERY DATE: 3/15/2015.** ONSITE: **05/17/16**

Analytical Report

Lab Order 1605793

Date Reported: 5/19/2016

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

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

Project: GCU 290

Collection Date: 5/17/2016 10:25:00 AM

Lab ID: 1605793-001

Matrix: MEOH (SOIL)

Received Date: 5/18/2016 7:25:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>LGT</b>
Chloride	1100	30		mg/Kg	20	5/18/2016 11:27:47 AM	25381
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>KJH</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	5/18/2016 10:41:10 AM	25376
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	5/18/2016 10:41:10 AM	25376
Surr: DNOP	101	70-130		%Rec	1	5/18/2016 10:41:10 AM	25376
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	5/18/2016 10:44:19 AM	R34327
Surr: BFB	106	80-120		%Rec	1	5/18/2016 10:44:19 AM	R34327
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	5/18/2016 10:44:19 AM	A34327
Toluene	ND	0.043		mg/Kg	1	5/18/2016 10:44:19 AM	A34327
Ethylbenzene	ND	0.043		mg/Kg	1	5/18/2016 10:44:19 AM	A34327
Xylenes, Total	ND	0.085		mg/Kg	1	5/18/2016 10:44:19 AM	A34327
Surr: 4-Bromofluorobenzene	108	80-120		%Rec	1	5/18/2016 10:44:19 AM	A34327

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

<b>Qualifiers:</b>	* 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#: 1605793

19-May-16

Client: Blagg Engineering

Project: GCU 290

Sample ID	<b>MB-25381</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>25381</b>	RunNo:	<b>34348</b>					
Prep Date:	<b>5/18/2016</b>	Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058949</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-25381</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>25381</b>	RunNo:	<b>34348</b>					
Prep Date:	<b>5/18/2016</b>	Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058950</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.6	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#: 1605793

19-May-16

**Client:** Blagg Engineering

**Project:** GCU 290

Sample ID	<b>LCS-25376</b>		SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>LCSS</b>		Batch ID: <b>25376</b>	RunNo: <b>34312</b>						
Prep Date:	<b>5/18/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1057969</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	62.6	124			
Surr: DNOP	4.7		5.000		94.9	70	130			

Sample ID	<b>MB-25376</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>25376</b>	RunNo: <b>34312</b>						
Prep Date:	<b>5/18/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1057971</b>	Units: <b>mg/Kg</b>					
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	9.6		10.00		95.7	70	130			

Sample ID	<b>1605792-001AMS</b>		SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>25376</b>	RunNo: <b>34312</b>						
Prep Date:	<b>5/18/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1058180</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.6	47.89	8.838	71.6	33.9	141			
Surr: DNOP	4.4		4.789		91.9	70	130			

Sample ID	<b>1605792-001AMSD</b>		SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>25376</b>	RunNo: <b>34312</b>						
Prep Date:	<b>5/18/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1058181</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	10	49.75	8.838	120	33.9	141	45.4	20	R
Surr: DNOP	5.1		4.975		103	70	130	0	0	

Sample ID	<b>LCS-25321</b>		SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>LCSS</b>		Batch ID: <b>25321</b>	RunNo: <b>34313</b>						
Prep Date:	<b>5/16/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1058336</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		88.6	70	130			

Sample ID	<b>LCS-25322</b>		SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>						
Client ID:	<b>LCSS</b>		Batch ID: <b>25322</b>	RunNo: <b>34313</b>						
Prep Date:	<b>5/16/2016</b>		Analysis Date: <b>5/18/2016</b>	SeqNo: <b>1058337</b>	Units: <b>%Rec</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

**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#: 1605793  
19-May-16

**Client:** Blagg Engineering  
**Project:** GCU 290

Sample ID	<b>LCS-25322</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>25322</b>	RunNo:	<b>34313</b>					
Prep Date:	<b>5/16/2016</b>	Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058337</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.1		5.000		82.7	70	130			

Sample ID	<b>MB-25321</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>25321</b>	RunNo:	<b>34313</b>					
Prep Date:	<b>5/16/2016</b>	Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058338</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.1		10.00		91.0	70	130			

Sample ID	<b>MB-25322</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>25322</b>	RunNo:	<b>34313</b>					
Prep Date:	<b>5/16/2016</b>	Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058339</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.5		10.00		95.1	70	130			

**Qualifiers:**

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- 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#: 1605793

19-May-16

**Client:** Blagg Engineering

**Project:** GCU 290

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>R34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058588</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		107	80	120			

Sample ID	<b>2.5UG GRO LCSB</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>R34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058589</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.1	80	120			
Surr: BFB	1200		1000		116	80	120			

Sample ID	<b>1605792-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>R34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058590</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	23.86	0	90.1	59.3	143			
Surr: BFB	1100		954.2		118	80	120			

Sample ID	<b>1605792-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015D: Gasoline Range</b>					
Client ID:	<b>BatchQC</b>	Batch ID:	<b>R34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058591</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.86	0	91.5	59.3	143	1.54	20	
Surr: BFB	1100		954.2		116	80	120	0	0	

**Qualifiers:**

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- 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#: 1605793

19-May-16

**Client:** Blagg Engineering

**Project:** GCU 290

Sample ID	<b>5ML RB</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>A34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058603</b>	Units:	<b>mg/Kg</b>			
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		111	80	120			

Sample ID	<b>100NG BTEX LCS</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>A34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058604</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	101	75.3	123			
Toluene	1.0	0.050	1.000	0	102	80	124			
Ethylbenzene	0.98	0.050	1.000	0	97.9	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	98.3	83.9	122			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	80	120			

Sample ID	<b>1605793-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>5PC-TB@5' (95)</b>	Batch ID:	<b>A34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058605</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.021	0.8540	0	99.8	71.5	122			
Toluene	0.85	0.043	0.8540	0	99.5	71.2	123			
Ethylbenzene	0.83	0.043	0.8540	0	97.7	75.2	130			
Xylenes, Total	2.5	0.085	2.562	0.01488	97.1	72.4	131			
Surr: 4-Bromofluorobenzene	0.99		0.8540		116	80	120			

Sample ID	<b>1605793-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>5PC-TB@5' (95)</b>	Batch ID:	<b>A34327</b>	RunNo:	<b>34327</b>					
Prep Date:		Analysis Date:	<b>5/18/2016</b>	SeqNo:	<b>1058606</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.87	0.021	0.8540	0	102	71.5	122	1.98	20	
Toluene	0.88	0.043	0.8540	0	103	71.2	123	3.29	20	
Ethylbenzene	0.85	0.043	0.8540	0	100	75.2	130	2.26	20	
Xylenes, Total	2.6	0.085	2.562	0.01488	99.8	72.4	131	2.75	20	
Surr: 4-Bromofluorobenzene	1.0		0.8540		119	80	120	0	0	

**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  
 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: **1605793**

RcptNo: **1**

Received by/date:

*[Signature]* *05/18/16*

Logged By: **Lindsay Mangin**

**5/18/2016 7:25:00 AM**

*[Signature]*

Completed By: **Lindsay Mangin**

**5/18/2016 7:53:41 AM**

*[Signature]*

Reviewed By:

*[Signature]* *05/18/16*

### 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	1.6	Good	Yes			

