

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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 October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

30-045-11570 OPERATOR ☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Courtney Cochran
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 326-9457
Facility Name: GCU 193	Facility Type: natural gas well API # 300451157000
Surface Owner: Federal	Mineral Owner: Federal Lease No. 1-149-IND-8470

LOCATION OF RELEASE

Unit Letter E	Section 30	Township T28N	Range R12W	Feet from the 1525	North/South Line North	Feet from the 910	East/West Line West	County: San Juan
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Latitude 36.63629 Longitude 108.1585

NATURE OF RELEASE

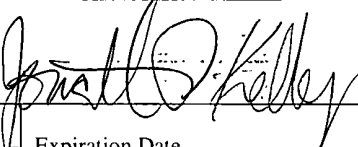
Type of Release: condensate	Volume of Release: unknown	Volume Recovered: none
Source of Release: 21 bbl BGT	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: 1/25/2012
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell NMOCD	
By Whom? Courtney Cochran	Date and Hour: 2 pm on 1/26/2012	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*
RCVD FEB 21 '12
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*
During the closure of 21 bbl BGT a release was noted. A five point composite sample was taken at a depth of 6 feet.

Describe Area Affected and Cleanup Action Taken.*
Samples were taken and sent to the laboratory for analysis. Laboratory results found a TPH of 280 ppm via US EPA Method 8015B. Based on this finding and a site closure standard of 1000 ppm TPH the excavation should be backfilled with clean material. Laboratory results and a excavation closure document are included with this report.

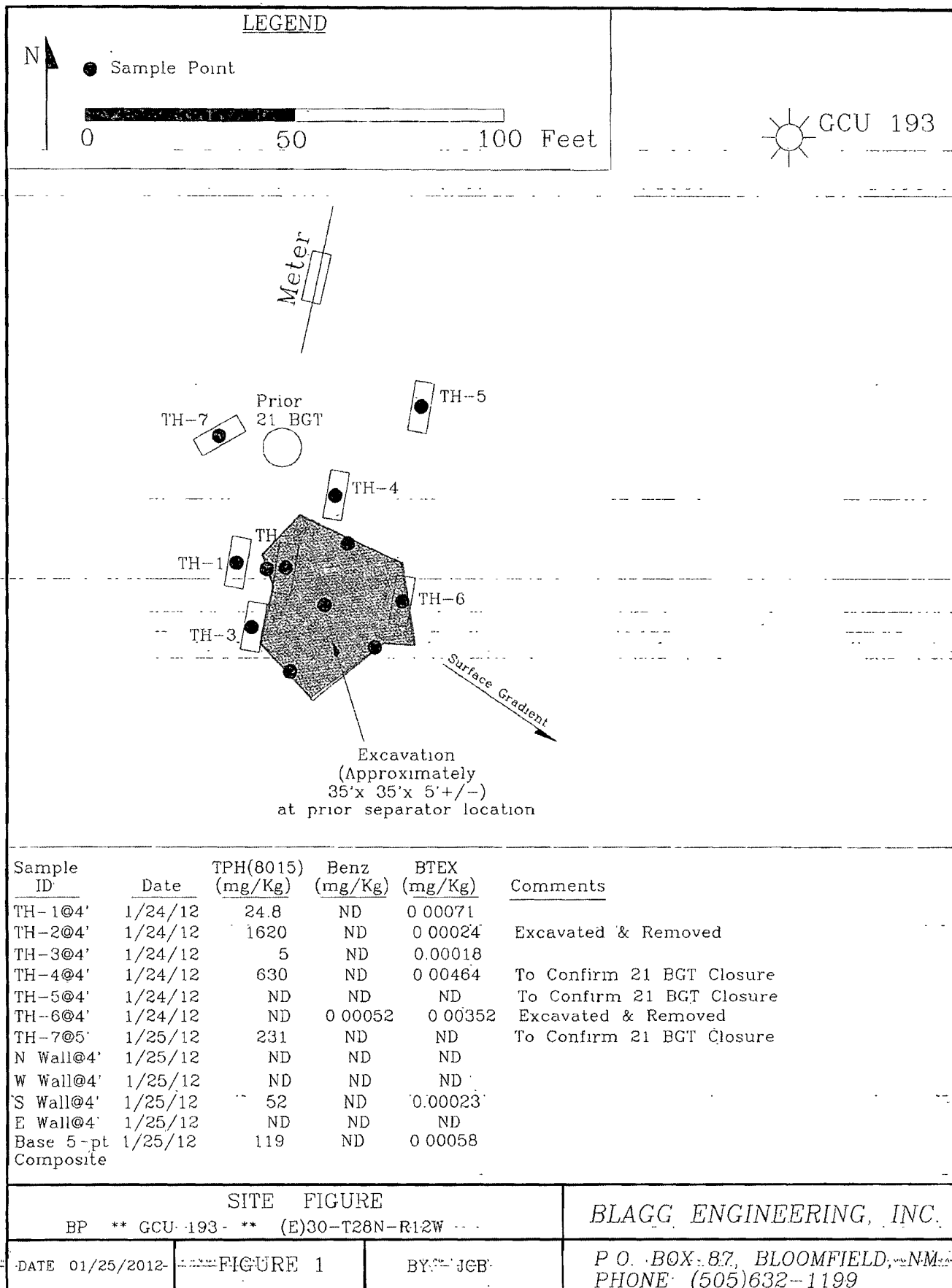
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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: Courtney Cochran	Approved by District Supervisor: 	
Title: Environmental Challenger	Approval Date: 2/27/2012	Expiration Date:
E-mail Address: Courtney.Cochran@bp.com	Conditions of Approval:	Attached ☐
Date: January 31, 2012 Phone: 326-9457		

Attach Additional Sheets If Necessary

NJK1205854501

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: <u>30-045-11570</u> TANK ID (if applicable): <u>A & B</u>																									
FIELD REPORT: (circle one) <u>BGT CONFIRMATION</u> / RELEASE INVESTIGATION / OTHER:		PAGE #: <u>1</u> of <u>1</u>																									
SITE INFORMATION: SITE NAME <u>GCU 193</u> QUAD/UNIT: <u>E</u> SEC: <u>30</u> TWP: <u>28N</u> RING: <u>12W</u> PM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u> 1/4 - 1/4 FOOTAGE: <u>SW/4 NW/4</u> LEASE TYPE: <u>FEDERAL</u> / STATE / FEE <u>INDIAN</u> LEASE #: <u>NM 78391 C</u> PROD. FORMATION: <u>DK</u> CONTRACTOR: <u>Elkhorn (CHAD)</u>		DATE STARTED: <u>1/16/2012</u> DATE FINISHED: <u>1/16/2012</u> ENVIRONMENTAL SPECIALIST(S): <u>JCB</u>																									
REFERENCE POINT: WELL HEAD (W.H.) GPS COORD.: <u>36.63598 x 108.15878</u> GL ELEV.: <u>5810</u> 1) <u>95 BGT (A)</u> GPS COORD.: <u>36.63598 x 108.15878</u> DISTANCE/BEARING FROM W.H.: <u>144' 533° W</u> 2) <u>21 BGT (B)</u> GPS COORD.: <u>36.63610 x 108.15895</u> DISTANCE/BEARING FROM W.H.: <u>141' 559° W</u> 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: <u>HALL</u> <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DATE</th> <th>SAMPLE TIME</th> <th>LAB ANALYSIS</th> <th>OVM READING (ppm)</th> </tr> </thead> <tbody> <tr> <td>1) <u>21 BGT 5-PT 6</u></td> <td><u>1-16-2012</u></td> <td><u>1530</u></td> <td><u>TPH/BTE/CL</u></td> <td><u>166</u></td> </tr> <tr> <td>2) <u>95 BGT 5-PT 5</u></td> <td><u>11</u></td> <td><u>1540</u></td> <td><u>11</u></td> <td><u>0.0</u></td> </tr> <tr> <td>3) SAMPLE ID: _____</td> <td>SAMPLE DATE: _____</td> <td>SAMPLE TIME: _____</td> <td>LAB ANALYSIS: _____</td> <td>_____</td> </tr> <tr> <td>4) SAMPLE ID: _____</td> <td>SAMPLE DATE: _____</td> <td>SAMPLE TIME: _____</td> <td>LAB ANALYSIS: _____</td> <td>_____</td> </tr> </tbody> </table>			SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)	1) <u>21 BGT 5-PT 6</u>	<u>1-16-2012</u>	<u>1530</u>	<u>TPH/BTE/CL</u>	<u>166</u>	2) <u>95 BGT 5-PT 5</u>	<u>11</u>	<u>1540</u>	<u>11</u>	<u>0.0</u>	3) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____	_____	4) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____	_____
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4) SAMPLE ID: _____	SAMPLE DATE: _____	SAMPLE TIME: _____	LAB ANALYSIS: _____	_____																							
SOIL DESCRIPTION: SOIL TYPE: <u>SAND / SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER</u> <u>BEDROCK S.S.</u> SOIL COLOR: _____ COHESION (ALL OTHERS): <u>NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE</u> CONSISTENCY (NON COHESIVE SOILS): <u>LOOSE / FIRM / DENSE / VERY DENSE</u> MOISTURE: <u>DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED</u> SAMPLE TYPE: <u>GRAB / COMPOSITE</u> # OF PTS. <u>5</u> DISCOLORATION/STAINING OBSERVED: <u>YES</u> / NO EXPLANATION: <u>@ 21 BGT ONLY</u> ANY AREAS DISPLAYING WETNESS: <u>YES</u> / <u>NO</u> EXPLANATION: _____ ADDITIONAL COMMENTS: _____																											
EXCAVATION DIMENSIONS (if applicable): _____ ft. X _____ ft. X _____ ft. cubic yards excavated (if applicable): _____ DEPTH TO GROUNDWATER: <u>>100</u> NEAREST WATER SOURCE: <u>>200</u> NEAREST SURFACE WATER: <u>>200</u> NMOC TPH CLOSURE STD: <u>1,000</u> PPM																											
SITE SKETCH 		PLOT PLAN circle: <u>attached</u> OVM CALIB. READ. = <u>53.8</u> ppm RF = 0.52 OVM CALIB. GAS = <u>100</u> ppm TIME <u>1550</u> am/pm DATE <u>1/16/12</u>																									
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; T.B. = TANK BOTTOM; PBGT = 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.		MISCELL. NOTES <u>N 1410245</u> <u>P0: 58543</u> <u>2 SCHWELL BGT</u> Tank ID: _____ A BGT Sidewalls Visible: <u>Y</u> / N / NA B BGT Sidewalls Visible: Y / <u>N</u> / NA Magnetic declination: <u>10° E</u>																									
TRAVEL NOTES: _____ CALLOUT: _____ ONSITE: <u>1/16/2012</u>																											





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

January 24, 2012

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

RE: GCU 193

OrderNo.: 1201587

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 1/20/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Client: BLACK ENGINEERING INC.

BP AMERICA

Mailing Address: P.O. Box 87

BLUMFIELD, NM 87413

Phone #: 505-632-1199

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other _____

☐ EDD (Type)

Sample Temperature: 71°C

☒ Rush IF POSSIBLE

Tel. 505-345-3975 Fax 505-345-4107

	X		BTEX + MIBK + TMB's 's (8021)
			BTEX + MTBE + TPH (Gas only)
	X		TPH Method 8015B (Gas/Diesel))
	X	X	TPH (Method 418.1)
			EDB (Method 504.1)
			8310 (PNA or PAH)
			RCRA 8 Metals
			Anions (F,C1,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
	X	X	<u>CHLORIDE</u>
			Air Bubbles (Y or N)

[illegible]

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

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201587

Date Reported: 1/24/2012

CLIENT: Blagg Engineering**Client Sample ID:** 21 BGT 5-Pt@ 6'**Project:** GCU 193**Collection Date:** 1/16/2012 3:30:00 PM**Lab ID:** 1201587-001**Matrix:** MEOH (SOIL)**Received Date:** 1/20/2012 9:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	140	9.8		mg/Kg	1	1/23/2012 1:28:19 PM
Surr: DNOP	102	77.4-131		%REC	1	1/23/2012 1:28:19 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	140	50		mg/Kg	10	1/23/2012 1:38:27 PM
Surr: BFB	178	69.7-121	S	%REC	10	1/23/2012 1:38:27 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.50		mg/Kg	10	1/23/2012 1:38:27 PM
Toluene	ND	0.50		mg/Kg	10	1/23/2012 1:38:27 PM
Ethylbenzene	ND	0.50		mg/Kg	10	1/23/2012 1:38:27 PM
Xylenes, Total	ND	1.0		mg/Kg	10	1/23/2012 1:38:27 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	10	1/23/2012 1:38:27 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	12	7.5		mg/Kg	5	1/23/2012 2:30:35 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	470	20		mg/Kg	1	1/23/2012

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

Client Sample ID: 95 BGT 5-pt @5'

Project: GCU 193

Collection Date: 1/16/2012 3:40:00 PM

Lab ID: 1201587-002

Matrix: MEOH (SOIL)

Received Date: 1/20/2012 9:00:00 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	1/23/2012 2:36:09 PM
Surr: DNOP	101	77.4-131		%REC	1	1/23/2012 2:36:09 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/23/2012 2:36:13 PM
Surr: BFB	94.1	69.7-121		%REC	1	1/23/2012 2:36:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/23/2012 2:36:13 PM
Toluene	ND	0.050		mg/Kg	1	1/23/2012 2:36:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/23/2012 2:36:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/23/2012 2:36:13 PM
Surr: 4-Bromofluorobenzene	99.9	85.3-139		%REC	1	1/23/2012 2:36:13 PM
EPA METHOD 300.0: ANIONS						Analyst: SRM
Chloride	7.6	7.5		mg/Kg	5	1/23/2012 2:48:00 PM
EPA METHOD 418.1: TPH						Analyst: JMP
Petroleum Hydrocarbons, TR	ND	20		mg/Kg	1	1/23/2012

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201587

24-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-391	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	391	RunNo:	530					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	15436	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-391	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	391	RunNo:	530					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	15437	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.1	90	110			

Sample ID	1201626-002AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	391	RunNo:	530					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	15440	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	38	30	15.00	31.65	40.4	74.6	118			S

Sample ID	1201626-002AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	391	RunNo:	530					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	15441	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	42	30	15.00	31.65	67.0	74.6	118	10.1	20	S

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#: 1201587

24-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-375	SampType:	MBLK	TestCode:	EPA Method 418.1: TPH					
Client ID:	PBS	Batch ID:	375	RunNo:	509					
Prep Date:	1/20/2012	Analysis Date:	1/23/2012	SeqNo:	14436	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-375		SampType:	LCS		TestCode:	EPA Method 418.1: TPH				
Client ID:	LCSS		Batch ID:	375		RunNo:	509				
Prep Date:	1/20/2012		Analysis Date:	1/23/2012		SeqNo:	14437		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	87.8	115				

Sample ID	LCSD-375	SampType:	LCSD	TestCode:	EPA Method 418.1: TPH					
Client ID:	LCSS02	Batch ID:	375	RunNo:	509					
Prep Date:	1/20/2012	Analysis Date:	1/23/2012	SeqNo:	14439	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	87.8	115	2.24	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#: 1201587

24-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-390	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	390	RunNo:	517					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	14646	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.8		10.00		97.9	77.4	131			

Sample ID	LCS-390	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	390	RunNo:	517					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	14796	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.7		5.000		115	77.4	131			

Sample ID	LCSD-390	SampType:	LCSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS02	Batch ID:	390	RunNo:	517					
Prep Date:	1/23/2012	Analysis Date:	1/23/2012	SeqNo:	14865	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.9		5.000		119	77.4	131	0	0	

Sample ID	MB-373	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	373	RunNo:	517					
Prep Date:	1/20/2012	Analysis Date:	1/23/2012	SeqNo:	14910	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	10		10.00		104	77.4	131			

Sample ID	LCS-373		SampType:	LCS		TestCode:	EPA Method 8015B: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	373		RunNo:	517				
Prep Date:	1/20/2012		Analysis Date:	1/23/2012		SeqNo:	14913		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	62.7	139				
Surr: DNOP	6.1		5.000		122	77.4	131				

Sample ID	1201584-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	373	RunNo:	517					
Prep Date:	1/20/2012	Analysis Date:	1/24/2012	SeqNo:	15102	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	9.9	49.65	0	75.9	57.2	146			
Surr: DNOP	7.2		4.965		145	77.4	131			S

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

Page 6 of 7

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201587

24-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	1201584-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	373	RunNo:	517					
Prep Date:	1/20/2012	Analysis Date:	1/24/2012	SeqNo:	15200	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.9	57.2	146	14.2	26.7	
Surr: DNOP	7.5		5.000		151	77.4	131	0	0	S

Sample ID	1201630-001AMS	SampType:	MS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	390	RunNo:	517					
Prep Date:	1/23/2012	Analysis Date:	1/24/2012	SeqNo:	15547	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.4		4.965		149	77.4	131			S

Sample ID	1201630-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	BatchQC	Batch ID:	390	RunNo:	517					
Prep Date:	1/23/2012	Analysis Date:	1/24/2012	SeqNo:	15548	Units: %REC				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.2		4.826		128	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



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87105
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name **BLAGG** Work Order Number. **1201587**

Logged by: **Lindsay Mangin** 1/20/2012 9:00:00 AM

Completed By: **Lindsay Mangin** 1/20/2012 9:31:12 AM

Reviewed By **JO 1/20/2012**

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? | <u>FedEx</u> | | |

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. Is the headspace in the VOA vials less than 1/4 inch or 6 mm? | 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 | # of preserved
bottles checked
for pH: |
| 14. Are matrices correctly identified on Chain of Custody? | Yes ✓ | No | (<2 or >12 unless noted) |
| 15. Is it clear what analyses were requested? | Yes ✓ | No | Adjusted? |
| 16. Were all holding times able to be met?
(If no, notify customer for authorization) | Yes ✓ | No | 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.	
Regarding:		eMail	
Client Instructions:		Phone	
		Fax	
		In Person	

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



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

January 30, 2012

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

RE: GCU 193

OrderNo.: 1201802

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/27/2012 for the analyses presented in the following report.

- There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Client: BLAKE ENGINEERING INC.
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) _____

☐ Standard

 **Rush**

BF MONDAY
1/30/2012

Project Name:

GCV 193

Project #:

Project Manager:

JEFF BLAGG

Sampler: Jeff BLAGG

On Ice ☒ Yes ☐ No

Sample Temperature

HEAL No.

1201802

[illegible]

Date: 12/20/2012	Time: 1038	Relinquished by: Jeff Blagov
------------------	------------	------------------------------

Date:	Time:	Relinquished by:
1/26/12	1748	Chet Wolt

Received by:	Date	Time
<i>Mustafa W...</i>	<i>1/26/2012</i>	<i>1038</i>

Received by:	Date	Time
<i>[Signature]</i>	01/27/12	10:10

Remarks: GRO & BRO ON 8015 B
WORKORDER: N 1410245
PARKER: ZSCHWILL BGT
Contact: Jeff Peace



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

[illegible]

Hall Environmental Analysis Laboratory, Inc.**Analytical Report**

Lab Order 1201802

Date Reported: 1/30/2012

CLIENT: Blagg Engineering**Client Sample ID:** TH-7 @ 5'**Project:** GCU 193**Collection Date:** 1/25/2012 2:45:00 PM**Lab ID:** 1201802-001**Matrix:** MEOH (SOIL)**Received Date:** 1/27/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	220	9.8		mg/Kg	1	1/28/2012 1:05:13 PM
Surr: DNOP	89.6	77.4-131		%REC	1	1/28/2012 1:05:13 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	11	5.0		mg/Kg	1	1/27/2012 3:37:22 PM
Surr: BFB	192	69.7-121	S	%REC	1	1/27/2012 3:37:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 3:37:22 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 3:37:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2012 3:37:22 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2012 3:37:22 PM
Surr: 4-Bromofluorobenzene	107	85.3-139		%REC	1	1/27/2012 3:37:22 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	17	7.5		mg/Kg	5	1/27/2012 8:46:42 PM

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.

Analytical Report
Lab Order 1201802
Date Reported: 1/30/2012

CLIENT: Blagg Engineering

Client Sample ID: North Wall @ 4'

Project: GCU 193

Collection Date: 1/25/2012 2:53:00 PM

Lab ID: 1201802-002

Matrix: MEOH (SOIL)

Received Date: 1/27/2012 10:10:00 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	1/28/2012 2:09:15 PM
Surr: DNOP	86.3	77.4-131		%REC	1	1/28/2012 2:09:15 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2012 6:30:21 PM
Surr: BFB	99.4	69.7-121		%REC	1	1/27/2012 6:30:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 4:06:12 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 4:06:12 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2012 4:06:12 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2012 4:06:12 PM
Surr: 4-Bromofluorobenzene	105	85.3-139		%REC	1	1/27/2012 4:06:12 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	1/27/2012 10:13:44 PM

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.**Analytical Report**

Lab Order 1201802

Date Reported: 1/30/2012

CLIENT: Blagg Engineering**Client Sample ID:** West Wall @ 4'**Project:** GCU 193**Collection Date:** 1/25/2012 2:55:00 PM**Lab ID:** 1201802-003**Matrix:** MEOH (SOIL)**Received Date:** 1/27/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/28/2012 2:30:29 PM
Surr: DNOP	84.9	77.4-131		%REC	1	1/28/2012 2:30:29 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2012 4:34:59 PM
Surr: BFB	98.9	69.7-121		%REC	1	1/27/2012 4:34:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 4:34:59 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 4:34:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2012 4:34:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2012 4:34:59 PM
Surr: 4-Bromofluorobenzene	106	85.3-139		%REC	1	1/27/2012 4:34:59 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	15	7.5		mg/Kg	5	1/27/2012 10:31:08 PM

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.**Analytical Report**Lab Order **1201802**Date Reported: **1/30/2012****CLIENT:** Blagg Engineering**Client Sample ID:** South Wall @ 4'**Project:** GCU 193**Collection Date:** 1/25/2012 2:56:00 PM**Lab ID:** 1201802-004**Matrix:** MEOH (SOIL)**Received Date:** 1/27/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	52	9.8		mg/Kg	1	1/28/2012 2:51:48 PM
Surr: DNOP	92.4	77.4-131		%REC	1	1/28/2012 2:51:48 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/27/2012 5:03:49 PM
Surr: BFB	126	69.7-121	S	%REC	1	1/27/2012 5:03:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 5:03:49 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 5:03:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2012 5:03:49 PM
Xylenes, Total	0.23	0.10		mg/Kg	1	1/27/2012 5:03:49 PM
Surr: 4-Bromofluorobenzene	106	85.3-139		%REC	1	1/27/2012 5:03:49 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	23	7.5		mg/Kg	5	1/27/2012 11:05:57 PM

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.**Analytical Report**

Lab Order 1201802

Date Reported: 1/30/2012

CLIENT: Blagg Engineering**Client Sample ID:** Source Base 5-pt comp @ 5'**Project:** GCU 193**Collection Date:** 1/25/2012 2:58:00 PM**Lab ID:** 1201802-005**Matrix:** MEOH (SOIL)**Received Date:** 1/27/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	93	9.9		mg/Kg	1	1/28/2012 3:13:08 PM
Surr: DNOP	87.1	77.4-131		%REC	1	1/28/2012 3:13:08 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	26	5.0		mg/Kg	1	1/27/2012 5:32:40 PM
Surr: BFB	332	69.7-121	S	%REC	1	1/27/2012 5:32:40 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 5:32:40 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 5:32:40 PM
Ethylbenzene	0.12	0.050		mg/Kg	1	1/27/2012 5:32:40 PM
Xylenes, Total	0.46	0.10		mg/Kg	1	1/27/2012 5:32:40 PM
Surr: 4-Bromofluorobenzene	118	85.3-139		%REC	1	1/27/2012 5:32:40 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	25	7.5		mg/Kg	5	1/27/2012 11:40:47 PM

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.**Analytical Report**

Lab Order 1201802

Date Reported: 1/30/2012

CLIENT: Blagg Engineering**Client Sample ID:** East Wall @ 4'**Project:** GCU 193**Collection Date:** 1/25/2012 3:02:00 PM**Lab ID:** 1201802-006**Matrix:** MEOH (SOIL)**Received Date:** 1/27/2012 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	1/28/2012 3:34:21 PM
Surr: DNOP	86.4	77.4-131		%REC	1	1/28/2012 3:34:21 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/30/2012 12:42:34 PM
Surr: BFB	94.7	69.7-121		%REC	1	1/30/2012 12:42:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/27/2012 6:01:31 PM
Toluene	ND	0.050		mg/Kg	1	1/27/2012 6:01:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/27/2012 6:01:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/27/2012 6:01:31 PM
Surr: 4-Bromofluorobenzene	107	85.3-139		%REC	1	1/27/2012 6:01:31 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	22	7.5		mg/Kg	5	1/28/2012 12:15:35 AM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201802

30-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-474	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18342	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-474	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18343	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

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#: 1201802

30-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-471	SampType:	MBLK	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	PBS	Batch ID:	471	RunNo:	607					
Prep Date:	1/27/2012	Analysis Date:	1/27/2012	SeqNo:	17557	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	9.1		10.00		91.4	77.4	131			

Sample ID	LCS-471	SampType:	LCS	TestCode:	EPA Method 8015B: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	471	RunNo:	607					
Prep Date:	1/27/2012	Analysis Date:	1/27/2012	SeqNo:	17558	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.4	62.7	139			
Surr: DNOP	5.6		5.000		111	77.4	131			

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

Sample Log-In Check List

Client Name: BLAGG		Work Order Number: 1201802	
Received by/date: <u>At 01/27/12</u>			
Logged By: Anne Thorne	1/27/2012 10:10:00 AM	<i>Anne Thorne</i>	
Completed By: Anne Thorne	1/27/2012	<i>Anne Thorne</i>	
Reviewed By: <u>ME 1/27/12</u>			

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	1.3	Good	Yes			



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

January 31, 2012

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

RE: GCU 193

OrderNo.: 1201769

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 6 sample(s) on 1/26/2012 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1201769

Date Reported: 1/31/2012

CLIENT: Blagg Engineering

Client Sample ID: TH-1@4'

Project: GCU 193

Collection Date: 1/24/2012 10:55:00 AM

Lab ID: 1201769-001

Matrix: MEOH (SOIL)

Received Date: 1/26/2012 2:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	18	10		mg/Kg	1	1/27/2012 9:31:27 AM
Surr: DNOP	88.8	77.4-131		%REC	1	1/27/2012 9:31:27 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	6.8	5.0		mg/Kg	1	1/26/2012 5:21:14 PM
Surr: BFB	132	69.7-121	S	%REC	1	1/26/2012 5:21:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/26/2012 5:21:14 PM
Toluene	ND	0.050		mg/Kg	1	1/26/2012 5:21:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/26/2012 5:21:14 PM
Xylenes, Total	0.71	0.10		mg/Kg	1	1/26/2012 5:21:14 PM
Surr: 4-Bromofluorobenzene	103	85.3-139		%REC	1	1/26/2012 5:21:14 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	15	7.5		mg/Kg	5	1/27/2012 1:14:01 PM

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.

Analytical Report
Lab Order 1201769
Date Reported: 1/31/2012

CLIENT: Blagg Engineering

Client Sample ID: TH-2@4'

Project: GCU 193

Collection Date: 1/24/2012 11:02:00 AM

Lab ID: 1201769-002

Matrix: MEOH (SOIL)

Received Date: 1/26/2012 2:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	870	99		mg/Kg	10	1/27/2012 12:54:34 PM
Surr: DNOP	0	77.4-131	S	%REC	10	1/27/2012 12:54:34 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	750	50		mg/Kg	10	1/26/2012 5:50:02 PM
Surr: BFB	663	69.7-121	S	%REC	10	1/26/2012 5:50:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.50		mg/Kg	10	1/26/2012 5:50:02 PM
Toluene	ND	0.50		mg/Kg	10	1/26/2012 5:50:02 PM
Ethylbenzene	ND	0.50		mg/Kg	10	1/26/2012 5:50:02 PM
Xylenes, Total	24	1.0		mg/Kg	10	1/26/2012 5:50:02 PM
Surr: 4-Bromofluorobenzene	130	85.3-139		%REC	10	1/26/2012 5:50:02 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	ND	7.5		mg/Kg	5	1/27/2012 1:48:51 PM

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.

Analytical Report

Lab Order 1201769

Date Reported: 1/31/2012

CLIENT: Blagg Engineering

Client Sample ID: TH-3@4'

Project: GCU 193

Collection Date: 1/24/2012 11:13:00 AM

Lab ID: 1201769-003

Matrix: MEOH (SOIL)

Received Date: 1/26/2012 2:30:00 PM

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	1/27/2012 10:01:12 AM
Surr: DNOP	88.4	77.4-131		%REC	1	1/27/2012 10:01:12 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	5.0	5.0		mg/Kg	1	1/27/2012 10:49:28 PM
Surr: BFB	108	69.7-121		%REC	1	1/27/2012 10:49:28 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/26/2012 6:47:46 PM
Toluene	ND	0.050		mg/Kg	1	1/26/2012 6:47:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/26/2012 6:47:46 PM
Xylenes, Total	0.18	0.10		mg/Kg	1	1/26/2012 6:47:46 PM
Surr: 4-Bromofluorobenzene	99.7	85.3-139		%REC	1	1/26/2012 6:47:46 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	22	7.5		mg/Kg	5	1/27/2012 3:15:53 PM

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.**Analytical Report**Lab Order **1201769**

Date Reported: 1/31/2012

CLIENT: Blagg Engineering**Client Sample ID:** TH-4@4'**Project:** GCU 193**Collection Date:** 1/24/2012 11:21:00 AM**Lab ID:** 1201769-004**Matrix:** MEOH (SOIL)**Received Date:** 1/26/2012 2:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: JMP
Diesel Range Organics (DRO)	440	9.9		mg/Kg	1	1/27/2012 10:22:56 AM
Surr: DNOP	92.0	77.4-131		%REC	1	1/27/2012 10:22:56 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	190	25		mg/Kg	5	1/26/2012 7:16:38 PM
Surr: BFB	425	69.7-121	S	%REC	5	1/26/2012 7:16:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.25		mg/Kg	5	1/26/2012 7:16:38 PM
Toluene	ND	0.25		mg/Kg	5	1/26/2012 7:16:38 PM
Ethylbenzene	0.64	0.25		mg/Kg	5	1/26/2012 7:16:38 PM
Xylenes, Total	4.0	0.50		mg/Kg	5	1/26/2012 7:16:38 PM
Surr: 4-Bromofluorobenzene	116	85.3-139		%REC	5	1/26/2012 7:16:38 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	9.2	7.5		mg/Kg	5	1/27/2012 4:08:06 PM

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.**Analytical Report**

Lab Order 1201769

Date Reported: 1/31/2012

CLIENT: Blagg Engineering**Client Sample ID:** TH-5@4'**Project:** GCU 193**Collection Date:** 1/24/2012 11:30:00 AM**Lab ID:** 1201769-005**Matrix:** MEOH (SOIL)**Received Date:** 1/26/2012 2:30:00 PM

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	1/27/2012 12:11:51 PM
Surr: DNOP	87.3	77.4-131		%REC	1	1/27/2012 12:11:51 PM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/26/2012 8:14:17 PM
Surr: BFB	99.7	69.7-121		%REC	1	1/26/2012 8:14:17 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.050		mg/Kg	1	1/26/2012 8:14:17 PM
Toluene	ND	0.050		mg/Kg	1	1/26/2012 8:14:17 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/26/2012 8:14:17 PM
Xylenes, Total	ND	0.10		mg/Kg	1	1/26/2012 8:14:17 PM
Surr: 4-Bromofluorobenzene	101	85.3-139		%REC	1	1/26/2012 8:14:17 PM
EPA METHOD 300.0: ANIONS						Analyst: BRM
Chloride	10	1.5		mg/Kg	1	1/27/2012 4:42:55 PM

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.

Analytical Report

Lab Order 1201769

Date Reported: 1/31/2012

CLIENT: Blagg Engineering

Client Sample ID: TH-6@4'

Project: GCU 193

Collection Date: 1/24/2012 11:40:00 AM

Lab ID: 1201769-006

Matrix: MEOH (SOIL)

Received Date: 1/26/2012 2:30:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						
						Analyst: JMP
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	1/27/2012 12:33:18 PM
Surr: DNOP	88.8	77.4-131		%REC	1	1/27/2012 12:33:18 PM
EPA METHOD 8015B: GASOLINE RANGE						
						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	1/26/2012 11:06:59 PM
Surr: BFB	105	69.7-121		%REC	1	1/26/2012 11:06:59 PM
EPA METHOD 8021B: VOLATILES						
						Analyst: RAA
Benzene	0.052	0.050		mg/Kg	1	1/26/2012 11:06:59 PM
Toluene	ND	0.050		mg/Kg	1	1/26/2012 11:06:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	1/26/2012 11:06:59 PM
Xylenes, Total	0.30	0.10		mg/Kg	1	1/26/2012 11:06:59 PM
Surr: 4-Bromofluorobenzene	102	85.3-139		%REC	1	1/26/2012 11:06:59 PM
EPA METHOD 300.0: ANIONS						
						Analyst: BRM
Chloride	15	7.5		mg/Kg	5	1/27/2012 5:17:45 PM

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1201769

31-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	MB-474	SampType	MBLK	TestCode	EPA Method 300.0: Anions					
Client ID	PBS	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18342	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-474	SampType	LCS	TestCode	EPA Method 300.0: Anions					
Client ID	LCSS	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18343	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.4	90	110			

Sample ID	1201799-001AMS	SampType	MS	TestCode	EPA Method 300.0: Anions					
Client ID	BatchQC	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18345	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	38	30	15.00	24.72	85.9	74.6	118			

Sample ID	1201799-001AMSD	SampType	MSD	TestCode	EPA Method 300.0: Anions					
Client ID	BatchQC	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18346	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	36	30	15.00	24.72	73.8	74.6	118	4.93	20	S

Sample ID	1201769-003AMS	SampType	MS	TestCode	EPA Method 300.0: Anions					
Client ID	TH-3@4	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18355	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	30	7.5	15.00	21.99	50.3	74.6	118			S

Sample ID	1201769-003AMSD	SampType	MSD	TestCode	EPA Method 300.0: Anions					
Client ID	TH-3@4	Batch ID	474	RunNo	644					
Prep Date	1/27/2012	Analysis Date	1/27/2012	SeqNo	18356	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	37	7.5	15.00	21.99	100	74.6	118	22.5	20	R

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#: 1201769

31-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	5ML-RB	Sample Type	MBLK	Test Code	EPA Method 8015B: Gasoline Range					
Client ID	PBS	Batch ID	R603	Run No	603					
Prep Date		Analysis Date	1/26/2012	Seq No	17326	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	930		1,000		93.2	69.7	121			

Sample ID	2.5UG GRO LCS	Sample Type	LCS	Test Code	EPA Method 8015B: Gasoline Range					
Client ID	LCSS	Batch ID	R603	Run No	603					
Prep Date		Analysis Date	1/26/2012	Seq No	17330	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	86.4	132			
Surr: BFB	1,000		1,000		101	69.7	121			

Sample ID	1201769-002A MS	Sample Type	MS	Test Code	EPA Method 8015B: Gasoline Range					
Client ID	TH-2@4'	Batch ID	R603	Run No	603					
Prep Date		Analysis Date	1/27/2012	Seq No	17331	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	950	50	247.8	753.1	80.6	85.4	147			S
Surr: BFB	64,000		9,914		648	69.7	121			S

Sample ID	1201769-002A MSD	Sample Type	MSD	Test Code	EPA Method 8015B: Gasoline Range					
Client ID	TH-2@4'	Batch ID	R603	Run No	603					
Prep Date		Analysis Date	1/27/2012	Seq No	17332	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	1,000	50	247.8	753.1	105	85.4	147	6.24	19.2	
Surr: BFB	69,000		9,914		693	69.7	121	0	0	S

NOTES:

- + Spike recovery indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).
- + Spike recovery indicates matrix interference. The method is in control as indicated by the laboratory control sample (LCS).

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#: 1201769

31-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	5ML-RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles
Client ID:	PBS	Batch ID:	R603	RunNo:	603
Prep Date:		Analysis Date:	1/26/2012	SeqNo:	17378
				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	0.98		1.000		98.4	85.3	139			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles
Client ID:	LCSS	Batch ID:	R603	RunNo:	603
Prep Date:		Analysis Date:	1/26/2012	SeqNo:	17382
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	102	83.3	107			
Toluene	1.0	0.050	1.000	0	101	74.3	115			
Ethylbenzene	1.0	0.050	1.000	0	101	80.9	122			
Xylenes, Total	3.0	0.10	3.000	0	101	85.2	123			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	85.3	139			

Sample ID	1201769-001A MS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles
Client ID:	TH-1@4'	Batch ID:	R603	RunNo:	603
Prep Date:		Analysis Date:	1/27/2012	SeqNo:	17383
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.020	0	98.6	67.2	113			
Toluene	1.0	0.050	1.020	0.02107	99.2	62.1	116			
Ethylbenzene	1.0	0.050	1.020	0.01773	100	67.9	127			
Xylenes, Total	3.8	0.10	3.061	0.7093	99.9	60.6	134			
Surr: 4-Bromofluorobenzene	1.1		1.020		105	85.3	139			

Sample ID	1201769-001A MSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles
Client ID:	TH-1@4'	Batch ID:	R603	RunNo:	603
Prep Date:		Analysis Date:	1/27/2012	SeqNo:	17384
				Units:	mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.050	1.020	0	90.0	67.2	113	9.07	14.3	
Toluene	0.94	0.050	1.020	0.02107	89.7	62.1	116	9.84	15.9	
Ethylbenzene	0.95	0.050	1.020	0.01773	91.1	67.9	127	9.50	14.4	
Xylenes, Total	3.5	0.10	3.061	0.7093	90.1	60.6	134	8.35	12.6	
Surr: 4-Bromofluorobenzene	1.1		1.020		108	85.3	139	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#: 1201769

31-Jan-12

Client: Blagg Engineering

Project: GCU 193

Sample ID	1201799-001A MS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	R621	RunNo:	621					
Prep Date:		Analysis Date:	1/28/2012	SeqNo:	18313	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	11		10.00		113	85.3	139			

Sample ID	1201799-001A MSD			SampType:	MSD		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	BatchQC		Batch ID:	R621		RunNo:	621				
Prep Date:			Analysis Date:	1/28/2012		SeqNo:	18314		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: 4-Bromofluorobenzene	11		10.00		113	85.3	139	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

Sample Log-In Check List

Client Name: BLAGG		Work Order Number: 1201769
Received by/date: <u>MG 1/26/12</u>		
Logged By: Michelle Garcia	1/26/2012 2:30:00 PM	<i>Michelle Garcia</i>
Completed By: Michelle Garcia	1/26/2012 2:35:36 PM	<i>Michelle Garcia</i>
Reviewed By: <i>[Signature]</i>		

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	1.1	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	
Client: <u>BLAG ENGINEERING INC.</u>	☐ Standard	☒ Rush	<u>1/30/12</u>
<u>BP AMERICA</u>	Project Name:		
Mailing Address: <u>P.O. Box 87</u>	<u>GCU 193</u>		
<u>BLOOMFIELD, NM 87413</u>	Project #:		
Phone #: <u>505-632-1199</u>	Project Manager:		
email or Fax#:	<u>Jeff Blagg</u>		
QA/QC Package:			
☒ Standard	☐ Level 4 (Full Validation)		
Accreditation			
☐ NELAP	☐ Other _____		
☐ EDD (Type) _____	Sampler: <u>Jeff Blagg</u>		
	Office: ☒ Yes ☐ No		
	Sample Temperature: _____		

☐ Standard

☒ Rush 1/30/12

Project Name:

GCU 193

Project #:

Project Manager:

Jeff Blaw

Sampler: Jeff BLAGL

On file: ☒ Yes ☐ No

Sample Temperature

[illegible]

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