

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

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: GCU 205	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 3004511568
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LOCATION OF RELEASE

Unit Letter N	Section 17	Township 28N	Range 12W	Feet from the 1,045	North/South Line South	Feet from the 1,765	East/West Line West	County: San Juan
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Latitude 36.65786 Longitude 108.13803

NATURE OF RELEASE

OIL CONS. DIV DIST. 3

Type of Release: condensate and produced water	Volume of Release: 70 bbl of condensate and 4.4 bbl of produced water in the secondary containment area	Volume Recovered: none AUG 15 2014
Source of Release: drain valve on condensate tank	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: December 27, 2013; 10:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Brandon Powell	
By Whom? Courtney Cochran, BP	Date and Hour: 12/27/2012; 1:00 PM	
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.* Drain valve on the condensate tank failed due to freezing. The threads separated and allowed the contents of the condensate tank to drain into the secondary containment area. The well was shut in and the production equipment was removed so remediation could begin.

Describe Area Affected and Cleanup Action Taken.* Remediation by excavating impacted soil began in February 2014. Competent sandstone bedrock was found 15 feet below the surface and impacted soil was removed to the sandstone. Soil on the sandstone was scraped and removed to the extent practical with the trackhoe. Remaining soil on the sandstone was treated with hydrogen peroxide. Approximately 7,444 cubic yards of soil were transported to the landfarm for treatment.

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: <i>Jeff Peace</i>		OIL CONSERVATION DIVISION	
Printed Name: Jeff Peace		Approved by Environmental Specialist: <i>Jonathan D. Kelly</i>	
Title: Area Environmental Advisor		Approval Date: <i>9/11/2014</i>	Expiration Date:
E-mail Address: peace.jeffrey@bp.com		Conditions of Approval:	
Date: August 15, 2014 Phone: 505-326-9479		Attached ☐	

* Attach Additional Sheets If Necessary

nJK1425426813

BP America
GCU 205
(N) Sec 17 – T28N – R12W
San Juan County, New Mexico

Spill Release Remediation Summary

Dec 31, 2013	First inspection of release from 300 bbl stock tank by Blagg Engr. Site ranking indicates groundwater greater than 100 feet from surface, shallow sandstone present, no water wells or springs within 2,000 feet. Dry wash present within 200 feet of release.
Feb 24, 2014	Begin excavation of impacted soil. Determine dense bedrock sandstone at 15' below tank release. Sample sandstone surface and SW sidewall. Apply 5 gallons hydrogen peroxide to SS base.
Feb 26, 2014	Conduct sidewall sampling
Mar 4, 2014	Conduct sandstone base sampling. Apply 7 gallons H2O2 to base.
Mar 7, 2014	Conduct SW side sampling. Determine that a legacy source of unknown origin is main contributor to site impacts.
Mar 12, 2014	Conduct NW corner and middle base sampling. Apply 8 gallons H2O2 to SS base.
Mar 18, 2014	Sample SE corner of excavation.
Mar 21, 2014	Sample sidewalls south and west of wellhead. Discover likely Legacy source is possible unlined production pit east of current BGT location.
Mar 25, 2014	Sample SW corner and north sidewall of excavation
Mar 27, 2014	Sample NW corner base and sidewalls. Apply 9 gallons H2O2 to base. Crystalline sandstone and main gas transmission lines prevent removal of impacts towards Northwest. Complete Excavation. Average depth = 15 feet from Original surface grade. Total yardage = 7,444 CY. Impacted soils moved to BP Crouch Mesa Landfarm.

GCU-205

Impacted Soils Removed
to top Bedrock Sandstone (7,444 CY)

Sidewall TPH = 248.7 ppm

Likely Original
Legacy Source Area

GCU-205

Gas Transmission Lines

Sidewall TPH = 514.6 ppm

Sandstone slopes
towards SE

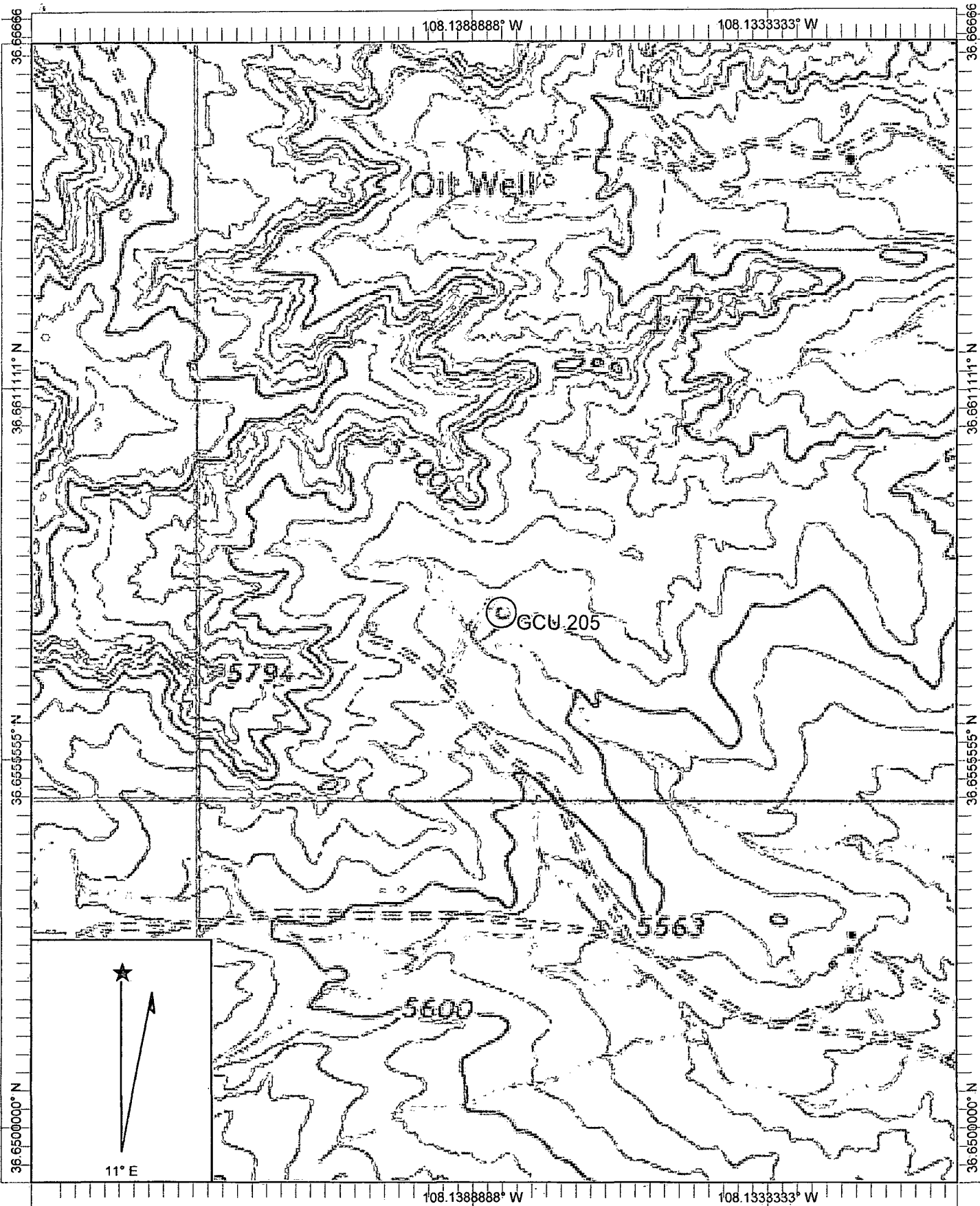
All other sidewalls test
at less than 100 ppm TPH

New Release
Surface Impact Area

Google earth

100 ft





Name: FARMINGTON SOUTH
Date: 12/30/2013
Scale: 1 inch equals 666 feet

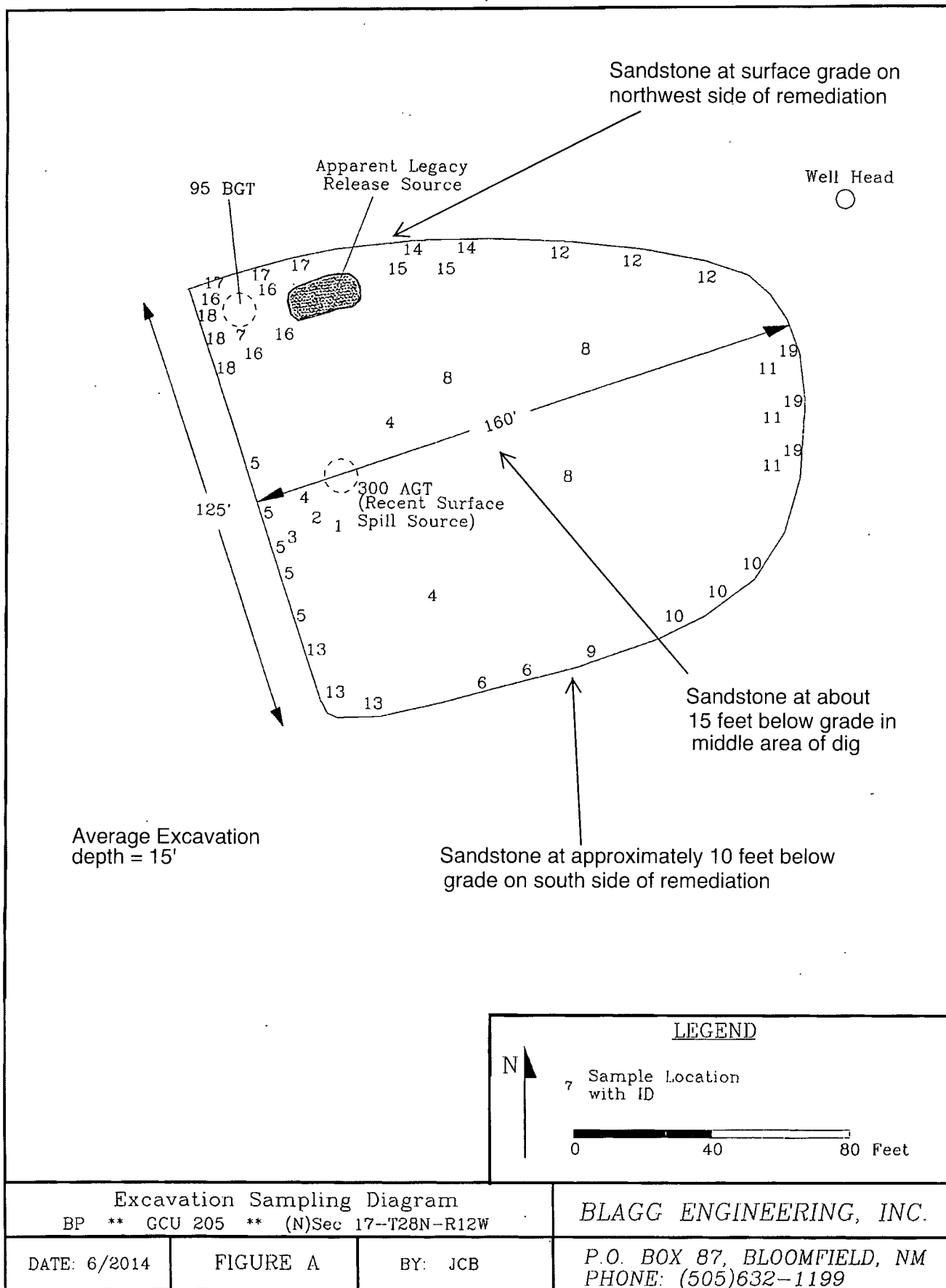
Location: 036.6577395° N 108.1384949° W
Caption: BP
GCU 205

BP America
GCU 205 (N) Sec 17 – T28N – R12W
San Juan County, New Mexico
Release Remediation Closure Sampling Summary Lab Results

Sample ID	Date	Time	Description	TPH (mg/Kg)	Benzene (mg/Kg)	Total BTEX (mg/Kg)	Comments
1	2/24/2014	10:45	Base @ 15'	1,790	1.4	104.1	H2O2 Applied
2	2/24/2014	10:50	SW Wall @ 13'	290	0.57	5.17	Excavated & Removed
3	2/26/2014	14:10	SW Sidewall @ 13'	39.3	0.071	0.64	
4	3/4/2014	14:00	Base 3-pt Comp@15'	1,090	ND	35.3	H2O2 Applied
5	3/7/2014	14:35	SW Corner 5-pt	ND	ND	ND	
6	3/10/2014	15:27	SE Corner 2-pt	ND	ND	ND	
7	3/12/2014	13:34	NW Corner@8'	ND	ND	ND	
8	3/12/2014	13:41	Middle Base 3-pt@15'	9.13	ND	ND	H2O2 Applied
9	3/12/2014	13:45	SE Corner@10'	ND	ND	0.46	
10	3/18/2014	13:45	3-pt@10' 120S18W	89.9	0.15	9.87	
11	3/21/2014	09:20	Sidewall@12' 3-pt South of Wellhead	101.6	ND	ND	Excavated and Removed
12	3/21/2014	09:24	Sidewall@12' 3-pt West of Wellhead	5.03	ND	ND	
13	3/25/2014	09:00	SW Sidewall 3-pt @13'-15'	ND	ND	ND	
14	3/25/2014	09:04	NW Sidewall 2-pt @ 8'	ND	ND	ND	
15	3/25/2014	09:10	NW Sidewall 2-pt@10' (Bedrock Shelf)	ND	ND		
16	3/27/2014	09:30	NW Corner Base @ 15'	112.7	ND	ND	H2O2 Applied
17	3/27/2014	09:41	NW Corner Wall@ 12' North Side 3-pt Comp	248.7	ND	0.77	Could Not Excavate Due to Pipeline & Crystalline Sandstone
18	3/27/2014	09:47	NW Corner Wall@ 12' West Side 3-pt Comp	514.6	ND	3.31	Could Not Excavate Due to Pipeline & Crystalline Sandstone
19	3/27/2014	09:52	Sidewall S. of Wellhead 3-pt Re-Sample	ND	ND	ND	
			NMOCD Closure Guidelines	100	10	50	



Sample ID Location Indicated on Excavation Sampling Diagram on following page.



Client:	Blagg Engineering, Inc.	☐ Standard	☒ Rush
BP America		Project Name:	
Mailing Address:	P.O. Box 87	GCU 205	
	Bloomfield, NM 87413	Project #:	
Phone #:	(505)320-1183	Project Manager:	
email or Fax#:		Jeff Blagg	
QA/QC Package:			
☒ Standard	☐ Level 4 (Full Validation)		
☐ Other		Sampler: Jeff Blagg	
☐ EDD (Type)		On Ice: ☒ Yes ☐ No	
		Sample Temperature: 10	

Project Name: GCU 205

Project #: _____

Project Manager:
Jeff Blagg

Sampler: Jeff Blagg
 On Ice: ☒ Yes ☐ No
 Sample Temperature: 1.0

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

[illegible]

Date: 2/27/2014	Time: 1012	Relinquished by: Jill Blegg	Received by: Christina Watson	Date 2/27/14	Time 1012
Date: 2/27/14	Time: 1728	Relinquished by: Christina Watson	Received by: Michelle Gori	Date 02/28/14	Time 1000

Remarks: Bill Blagg
BP Contact: Jeff Peace Please copy results to:
peace.jeffrey@bp.com

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.

Analytical Report

Lab Order 1402B16

Date Reported: 3/4/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** SW Sidewall @ 13 feet**Project:** GCU 205**Collection Date:** 2/26/2014 2:10:00 PM**Lab ID:** 1402B16-001**Matrix:** MEOH (SOIL)**Received Date:** 2/28/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	34	10		mg/Kg	1	2/28/2014 2:12:26 PM	11948
Surr: DNOP	98.8	66-131		%REC	1	2/28/2014 2:12:26 PM	11948
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	5.3	4.3		mg/Kg	1	2/28/2014 7:30:34 PM	R17027
Surr: BFB	86.3	74.5-129		%REC	1	2/28/2014 7:30:34 PM	R17027
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	0.071	0.043		mg/Kg	1	2/28/2014 7:30:34 PM	R17027
Toluene	0.44	0.043		mg/Kg	1	2/28/2014 7:30:34 PM	R17027
Ethylbenzene	ND	0.043		mg/Kg	1	2/28/2014 7:30:34 PM	R17027
Xylenes, Total	0.13	0.086		mg/Kg	1	2/28/2014 7:30:34 PM	R17027
Surr: 4-Bromofluorobenzene	99.2	80-120		%REC	1	2/28/2014 7:30:34 PM	R17027
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	230	30		mg/Kg	20	2/28/2014 3:46:53 PM	11949

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B16

04-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11949	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	11949	RunNo:	17054					
Prep Date:	2/28/2014	Analysis Date:	2/28/2014	SeqNo:	490414	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-11949	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	11949	RunNo:	17054					
Prep Date:	2/28/2014	Analysis Date:	2/28/2014	SeqNo:	490415	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B16

04-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11948		SampType: MBLK		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 11948		RunNo: 17024					
Prep Date:	2/28/2014		Analysis Date: 2/28/2014		SeqNo: 489867		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	9.5		10.00		94.7	66	131			

Sample ID	LCS-11948		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 11948		RunNo: 17024					
Prep Date:	2/28/2014		Analysis Date: 2/28/2014		SeqNo: 489868		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	56	10	50.00	0	112	60.8	145			
Surr: DNOP	5.1		5.000		102	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B16

04-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11937 MK		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	R17027		RunNo:	17027				
Prep Date:	2/27/2014		Analysis Date:	2/28/2014		SeqNo:	490048		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	800		1000		80.1	74.5	129				

Sample ID	LCS-11937 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R17027		RunNo: 17027					
Prep Date:	2/27/2014		Analysis Date: 2/28/2014		SeqNo: 490049		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	102	71.7	134			
Surr: BFB	890		1000		89.5	74.5	129			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402B16

04-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11937 MK		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R17027		RunNo:	17027			
Prep Date:			Analysis Date:	2/28/2014		SeqNo:	490069		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	0.92		1.000		92.3	80	120			

Sample ID	LCS-11937 MK		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R17027		RunNo:	17027			
Prep Date:			Analysis Date:	2/28/2014		SeqNo:	490070		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	114	80	120			
Toluene	1.1	0.050	1.000	0	114	80	120			
Ethylbenzene	1.2	0.050	1.000	0	117	80	120			
Xylenes, Total	3.5	0.10	3.000	0	117	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit



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: 1402B16

RcptNo: 1

Received by/date:

ma

02/28/14

Logged By: Lindsay Mangin

2/28/2014 10:00:00 AM

[Signature]

Completed By: Lindsay Mangin

2/28/2014 10:21:52 AM

[Signature]

Reviewed By:

IO

02/28/14

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.0	Good	Yes			

Client: **Slagg Engineering, Inc.**

BP America

Mailing Address: **P.O. Box 87**

Bloomfield, NM 87413

Phone #: **(505)320-1183**

email or Fax#:

QA/QC Package:

☒ **Standard** ☐ **Level 4 (Full Validation)**

☐ Other _____

☐ EDD (Type) _____

Project Name:	
GCU 205	
Project #:	
Project Manager:	
Jeff Blagg	
Sampler: Jeff Blagg	
On Ice: ☒ Yes ☐ No	
Sample Temperature: 4	

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

Analysis Request

[illegible]

Date: 3/25/2014	Time: 810	Relinquished by: JH Blogg	Received by: Christine Woelker	Date 3/25/14	Time 810
Date: 4/25/14	Time: 1749	Relinquished by: Christine Woelker	Received by: [Signature]	Date 4/25/14	Time 1815

Remarks: Bill Blagg
BP Contact: Jeff Peace Please copy results to:
peace.jeffrey@bp.com

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.

Analytical Report

Lab Order 1402984

Date Reported: 2/28/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** Base @ 15 Feet**Project:** GCU 205**Collection Date:** 2/24/2014 10:45:00 AM**Lab ID:** 1402984-001**Matrix:** MEOH (SOIL)**Received Date:** 2/26/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	490	9.9		mg/Kg	1	2/26/2014 12:51:30 PM	11903
Surr: DNOP	86.2	66-131		%REC	1	2/26/2014 12:51:30 PM	11903
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	1300	84		mg/Kg	20	2/26/2014 3:30:10 PM	R16966
Surr: BFB	298	74.5-129	S	%REC	20	2/26/2014 3:30:10 PM	R16966
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	1.4	0.84		mg/Kg	20	2/26/2014 3:30:10 PM	R16966
Toluene	10	0.84		mg/Kg	20	2/26/2014 3:30:10 PM	R16966
Ethylbenzene	9.7	0.84		mg/Kg	20	2/26/2014 3:30:10 PM	R16966
Xylenes, Total	83	1.7		mg/Kg	20	2/26/2014 3:30:10 PM	R16966
Surr: 4-Bromofluorobenzene	115	80-120		%REC	20	2/26/2014 3:30:10 PM	R16966
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	49	30		mg/Kg	20	2/26/2014 12:25:06 PM	11908

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1402984

Date Reported: 2/28/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SW Wall @ 13 Feet

Project: GCU 205

Collection Date: 2/24/2014 10:50:00 AM

Lab ID: 1402984-002

Matrix: MEOH (SOIL)

Received Date: 2/26/2014 10:15:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	140	10		mg/Kg	1	2/26/2014 1:13:38 PM	11903
Surr: DNOP	95.7	66-131		%REC	1	2/26/2014 1:13:38 PM	11903
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	150	25		mg/Kg	5	2/26/2014 3:58:42 PM	R16966
Surr: BFB	230	74.5-129	S	%REC	5	2/26/2014 3:58:42 PM	R16966
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	0.57	0.25		mg/Kg	5	2/26/2014 3:58:42 PM	R16966
Toluene	ND	0.25		mg/Kg	5	2/26/2014 3:58:42 PM	R16966
Ethylbenzene	3.4	0.25		mg/Kg	5	2/26/2014 3:58:42 PM	R16966
Xylenes, Total	1.2	0.50		mg/Kg	5	2/26/2014 3:58:42 PM	R16966
Surr: 4-Bromofluorobenzene	111	80-120		%REC	5	2/26/2014 3:58:42 PM	R16966
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	62	30		mg/Kg	20	2/26/2014 12:37:31 PM	11908

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402984

28-Feb-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11908	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489101	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-11908	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489102	Units:	mg/Kg			
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			

Sample ID	1402669-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489108	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.5757	91.1	71.3	115			

Sample ID	1402669-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489109	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0.5757	91.7	71.3	115	0.663	20	

Sample ID	1402909-001AMS	SampType:	MS	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489114	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	1.160	93.6	71.3	115			

Sample ID	1402909-001AMSD	SampType:	MSD	TestCode:	EPA Method 300.0: Anions					
Client ID:	BatchQC	Batch ID:	11908	RunNo:	16998					
Prep Date:	2/26/2014	Analysis Date:	2/26/2014	SeqNo:	489115	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	1.160	91.8	71.3	115	1.78	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402984

28-Feb-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11896		SampType:	MBLK		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	11896		RunNo:	16968				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488286		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	8.2		10.00		81.5	66	131				

Sample ID	LCS-11896		SampType:	LCS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	11896		RunNo:	16968				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488287		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.3		5.000		86.9	66	131				

Sample ID	1402939-001AMS		SampType:	MS		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	11896		RunNo:	16968				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488289		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	5.8		5.020		115	66	131				

Sample ID	1402939-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015D: Diesel Range Organics				
Client ID:	BatchQC		Batch ID:	11896		RunNo:	16968				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488290		Units: %REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.6		4.990		92.1	66	131	0	0		

Sample ID	MB-11903	SampType: MBLK			TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID: 11903			RunNo: 16968					
Prep Date:	2/26/2014	Analysis Date: 2/26/2014			SeqNo: 488291		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	8.0		10.00		79.6	66	131			

Sample ID	LCS-11903		SampType: LCS		TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 11903		RunNo: 16968					
Prep Date:	2/26/2014		Analysis Date: 2/26/2014		SeqNo: 488292		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.6	60.8	145			
Surr: DNOP	4.0		5.000		80.8	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402984

28-Feb-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11892 MK		SampType:	MBLK		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	PBS		Batch ID:	R16966		RunNo:	16966				
Prep Date:	2/25/2014		Analysis Date:	2/26/2014		SeqNo:	488600		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	810		1000		80.6	74.5	129				

Sample ID	LCS-11892 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R16966		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488601		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	97.8	71.7	134			
Surr: BFB	880		1000		88.0	74.5	129			

Sample ID	MB-11892		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488617		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	810		1000		80.6	74.5	129			

Sample ID	LCS-11892		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488618		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	880		1000		88.0	74.5	129			

Sample ID	1402939-001AMS		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	BatchQC		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488620		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	900		982.3		91.7	74.5	129			

Sample ID	1402939-001AMSD		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	BatchQC		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488621		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: RFB	880		984.3		89.6	74.5	129	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402984

28-Feb-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-11892 MK		SampType: MBLK		TestCode: EPA Method 8021B: Volatiles					
Client ID:	PBS		Batch ID: R16966		RunNo: 16966					
Prep Date:			Analysis Date: 2/26/2014		SeqNo: 488628		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	0.92		1.000		92.1	80	120			

Sample ID	LCS-11892 MK		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: R16966		RunNo: 16966					
Prep Date:			Analysis Date: 2/26/2014		SeqNo: 488629		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.1	0.050	1.000	0	111	80	120			
Ethylbenzene	1.1	0.050	1.000	0	111	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Sample ID	MB-11892	SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles				
Client ID:	PBS	Batch ID:	11892		RunNo:	16966				
Prep Date:	2/25/2014	Analysis Date:	2/26/2014		SeqNo:	488640	Units:	%REC		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.1	80	120			

Sample ID	LCS-11892		SampType: LCS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	LCSS		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488641		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0		1.000		99.8	80	120			

Sample ID	1402939-002AMS		SampType: MS		TestCode: EPA Method 8021B: Volatiles					
Client ID:	BatchQC		Batch ID: 11892		RunNo: 16966					
Prep Date:	2/25/2014		Analysis Date: 2/26/2014		SeqNo: 488644		Units: %REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		0.9488		97.3	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1402984

28-Feb-14

Client: Blagg Engineering

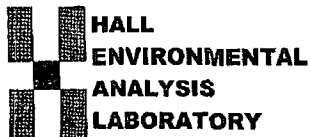
Project: GCU 205

Sample ID	1402939-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	BatchQC	Batch ID:	11892	RunNo:	16966					
Prep Date:	2/25/2014	Analysis Date:	2/27/2014	SeqNo:	488645	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.95		0.9515		100	80	120	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit



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: **1402984** RcptNo: **1**

Received by/date: *[Signature]* **02/26/14**

Logged By: **Ashley Gallegos** 2/26/2014 10:15:00 AM *[Signature]*

Completed By: **Ashley Gallegos** 2/26/2014 10:18:30 AM *[Signature]*

Reviewed By: *[Signature]* **02/26/14**

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 $>0^{\circ}\text{C}$ 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. $^{\circ}\text{C}$	Condition	Seal Intact	Seal No.	Seal Date	Signed By
1	1.6	Good	Yes			

[illegible]

Analytical Report

Lab Order 1403238

Date Reported: 3/11/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** Base 3-Pt Comp @ 15'**Project:** GCU 205**Collection Date:** 3/4/2014 2:00:00 PM**Lab ID:** 1403238-001**Matrix:** SOIL**Received Date:** 3/6/2014 10:20:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	510	10		mg/Kg	1	3/11/2014 1:48:34 PM	12071
Surr: DNOP	113	66-131		%REC	1	3/11/2014 1:48:34 PM	12071
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	580	99		mg/Kg	20	3/8/2014 2:43:09 AM	12060
Surr: BFB	222	74.5-129	S	%REC	20	3/8/2014 2:43:09 AM	12060
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.99		mg/Kg	20	3/8/2014 2:43:09 AM	12060
Toluene	ND	0.99		mg/Kg	20	3/8/2014 2:43:09 AM	12060
Ethylbenzene	4.3	0.99		mg/Kg	20	3/8/2014 2:43:09 AM	12060
Xylenes, Total	31	2.0		mg/Kg	20	3/8/2014 2:43:09 AM	12060
Surr: 4-Bromofluorobenzene	116	80-120		%REC	20	3/8/2014 2:43:09 AM	12060
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	64	30		mg/Kg	20	3/10/2014 10:11:22 AM	12097

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403238

11-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12097	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	12097	RunNo:	17219					
Prep Date:	3/10/2014	Analysis Date:	3/10/2014	SeqNo:	495365	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-12097	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	12097	RunNo:	17219					
Prep Date:	3/10/2014	Analysis Date:	3/10/2014	SeqNo:	495366	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403238

11-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12071	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12071	RunNo:	17227					
Prep Date:	3/6/2014	Analysis Date:	3/11/2014	SeqNo:	495739	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		91.0	66	131			

Sample ID	LCS-12071	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12071	RunNo:	17227					
Prep Date:	3/6/2014	Analysis Date:	3/11/2014	SeqNo:	495792	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	55	10	50.00	0	111	60.8	145			
Surr: DNOP	5.6		5.000		113	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403238

11-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12060	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12060	RunNo:	17170					
Prep Date:	3/6/2014	Analysis Date:	3/7/2014	SeqNo:	494269	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	850		1000		84.8	74.5	129			

Sample ID	LCS-12060	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12060	RunNo:	17170					
Prep Date:	3/6/2014	Analysis Date:	3/7/2014	SeqNo:	494270	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	71.7	134			
Surr: BFB	920		1000		92.1	74.5	129			

Sample ID	MB-12074	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	12074	RunNo:	17187					
Prep Date:	3/6/2014	Analysis Date:	3/7/2014	SeqNo:	494571	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.1	74.5	129			

Sample ID	LCS-12074	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	12074	RunNo:	17187					
Prep Date:	3/6/2014	Analysis Date:	3/7/2014	SeqNo:	494572	Units:	%REC			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		103	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403238

11-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12060		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	12060		RunNo:	17170			
Prep Date:	3/6/2014		Analysis Date:	3/7/2014		SeqNo:	494292		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID	MB-12074		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	12074		RunNo:	17187			
Prep Date:	3/6/2014		Analysis Date:	3/7/2014		SeqNo:	494615		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID	LCS-12074		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	12074		RunNo:	17187			
Prep Date:	3/6/2014		Analysis Date:	3/7/2014		SeqNo:	494616		Units: %REC	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1403238**

RcptNo: **1**

Received by/date:

AT 03/06/14

Logged By: **Anne Thorne** 3/6/2014 10:20:00 AM

Anne Thorne

Completed By: **Anne Thorne** 3/6/2014 10:20:00 AM

Anne Thorne

Reviewed By:

IG

03/06/14

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	1.0	Good	Yes			

Analytical Report

Lab Order 1403450

Date Reported: 3/17/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SW Corner 5-pt

Project: GCU 205

Collection Date: 3/7/2014 2:35:00 PM

Lab ID: 1403450-001

Matrix: MEOH (SOIL)

Received Date: 3/12/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/13/2014 2:48:03 PM	12127
Surr: DNOP	97.9	66-131		%REC	1	3/13/2014 2:48:03 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	4.4		mg/Kg	1	3/12/2014 10:32:32 PM	R17249
Surr: BFB	85.9	74.5-129		%REC	1	3/12/2014 10:32:32 PM	R17249
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.044		mg/Kg	1	3/12/2014 10:32:32 PM	R17249
Toluene	ND	0.044		mg/Kg	1	3/12/2014 10:32:32 PM	R17249
Ethylbenzene	ND	0.044		mg/Kg	1	3/12/2014 10:32:32 PM	R17249
Xylenes, Total	ND	0.087		mg/Kg	1	3/12/2014 10:32:32 PM	R17249
Surr: 4-Bromofluorobenzene	104	80-120		%REC	1	3/12/2014 10:32:32 PM	R17249
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	ND	30		mg/Kg	20	3/13/2014 7:38:40 AM	12145

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

Analytical Report

Lab Order 1403450

Date Reported: 3/17/2014

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** SE Corner 2-pt**Project:** GCU 205**Collection Date:** 3/10/2014 3:27:00 PM**Lab ID:** 1403450-002**Matrix:** MEOH (SOIL)**Received Date:** 3/12/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE ORGANICS							Analyst: BCN
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/13/2014 3:10:32 PM	12127
Surr: DNOP	100	66-131		%REC	1	3/13/2014 3:10:32 PM	12127
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JMP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/12/2014 11:01:00 PM	R17249
Surr: BFB	84.8	74.5-129		%REC	1	3/12/2014 11:01:00 PM	R17249
EPA METHOD 8021B: VOLATILES							Analyst: JMP
Benzene	ND	0.050		mg/Kg	1	3/12/2014 11:01:00 PM	R17249
Toluene	ND	0.050		mg/Kg	1	3/12/2014 11:01:00 PM	R17249
Ethylbenzene	ND	0.050		mg/Kg	1	3/12/2014 11:01:00 PM	R17249
Xylenes, Total	ND	0.10		mg/Kg	1	3/12/2014 11:01:00 PM	R17249
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1	3/12/2014 11:01:00 PM	R17249
EPA METHOD 300.0: ANIONS							Analyst: JRR
Chloride	68	30		mg/Kg	20	3/13/2014 7:51:05 AM	12145

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
	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
	O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403450

17-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12145	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	12145	RunNo:	17276					
Prep Date:	3/12/2014	Analysis Date:	3/12/2014	SeqNo:	497582	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-12145	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	12145	RunNo:	17276					
Prep Date:	3/12/2014	Analysis Date:	3/12/2014	SeqNo:	497583	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403450

17-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12127	SampType:	MBLK	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	12127	RunNo:	17275					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498023	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		91.2	66	131			

Sample ID	LCS-12127	SampType:	LCS	TestCode:	EPA Method 8015D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	12127	RunNo:	17275					
Prep Date:	3/11/2014	Analysis Date:	3/13/2014	SeqNo:	498432	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	100	60.8	145			
Surr: DNOP	4.7		5.000		94.5	66	131			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403450

17-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12124 MK		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	PBS		Batch ID: R17249		RunNo: 17249					
Prep Date:			Analysis Date: 3/12/2014		SeqNo: 497276		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	850		1000		85.4	74.5	129			

Sample ID	LCS-12124 MK		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range					
Client ID:	LCSS		Batch ID: R17249		RunNo: 17249					
Prep Date:			Analysis Date: 3/12/2014		SeqNo: 497277		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	115	71.7	134			
Surr: BFB	920		1000		91.9	74.5	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- 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
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403450

17-Mar-14

Client: Blagg Engineering

Project: GCU 205

Sample ID	MB-12124 MK		SampType:	MBLK		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	PBS		Batch ID:	R17249		RunNo:	17249			
Prep Date:	3/11/2014		Analysis Date:	3/12/2014		SeqNo:	497302		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			

Sample ID	LCS-12124 MK		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	R17249		RunNo:	17249			
Prep Date:			Analysis Date:	3/12/2014		SeqNo:	497380		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	1.000	0	120	80	120			S
Toluene	1.2	0.050	1.000	0	120	80	120			
Ethylbenzene	1.2	0.050	1.000	0	117	80	120			
Xylenes, Total	3.6	0.10	3.000	0	119	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		111	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
E Value above quantitation range
J Analyte detected below quantitation limits
O RSD is greater than RSDlimit
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
P Sample pH greater than 2.
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1403450**

RcptNo: 1

Received by/date: *Am* **03/12/14**

Logged By: **Ashley Gallegos**

3/12/2014 10:00:00 AM

Completed By: **Ashley Gallegos**

3/12/2014 10:29:15 AM

Reviewed By: *[Signature]*

03/12/14

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	1.2	Good	Yes			



Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
14-Mar-14 09:35

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW Corner @ 8'	P403034-01A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.
Middle Base 3-pt @ 15'	P403034-02A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.
SE Corner @ 10'	P403034-03A	Soil	03/12/14	03/13/14	Glass Jar, 4 oz.

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Blagg Engineering	Project Name:	GCU 205	Reported: 14-Mar-14 09:35
PO Box 87	Project Number:	94034-0011	
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	

NW Corner @ 8'
P403034-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %		80-120	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		103 %		80-120	1411015	03/13/14	03/13/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1411016	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	ND	9.96	mg/kg	1	1411019	03/13/14	03/13/14	EPA 300.0	

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Blagg Engineering
 PO Box 87
 Bloomfield NM, 87413

 Project Name: GCU 205
 Project Number: 94034-0011
 Project Manager: Jeff Blagg

Reported:
 14-Mar-14 09:35

Middle Base 3-pt @ 15'
P403034-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Surrogate: Bromochlorobenzene		109 %	80-120		1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		102 %	80-120		1411015	03/13/14	03/13/14	03/13/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	9.13	4.99	mg/kg	1	1411015	03/13/14	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1411016	03/13/14	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	28.2	9.89	mg/kg	1	1411019	03/13/14	03/13/14	03/13/14	EPA 300.0	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
14-Mar-14 09:35

SE Corner @ 10'
P403034-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Toluene	0.12	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
p,m-Xylene	0.34	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total Xylenes	0.34	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Total BTEX	0.46	0.05	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		100 %		80-120	1411015	03/13/14	03/13/14	EPA 8021B	
Surrogate: Bromochlorobenzene		106 %		80-120	1411015	03/13/14	03/13/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1411015	03/13/14	03/13/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1411016	03/13/14	03/13/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	193	9.93	mg/kg	1	1411019	03/13/14	03/13/14	EPA 300.0	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
14-Mar-14 09:35

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1411015 - Purge and Trap EPA 5030A

Blank (1411015-BLK1)

Prepared & Analyzed: 13-Mar-14

Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
Surrogate: 1,3-Dichlorobenzene	49.1		ug/L	50.0		98.1	80-120			
Surrogate: Bromochlorobenzene	50.4		"	50.0		101	80-120			

Duplicate (1411015-DUP1)

Source: P403034-01

Prepared & Analyzed: 13-Mar-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	52.8		ug/L	50.0		106	80-120			
Surrogate: Bromochlorobenzene	53.6		"	50.0		107	80-120			

Matrix Spike (1411015-MS1)

Source: P403034-01

Prepared & Analyzed: 13-Mar-14

Benzene	46.6		ug/L	50.0	ND	93.1	39-150			
Toluene	46.6		"	50.0	ND	93.1	46-148			
Ethylbenzene	46.6		"	50.0	ND	93.3	32-160			
p,m-Xylene	93.5		"	100	ND	93.5	46-148			
o-Xylene	46.7		"	50.0	ND	93.5	46-148			
Surrogate: 1,3-Dichlorobenzene	52.5		"	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.3		"	50.0		107	80-120			

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Blagg Engineering	Project Name:	GCU 205	Reported: 14-Mar-14 09:35
PO Box 87	Project Number:	94034-0011	
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch 1411015 - Purge and Trap EPA 5030A

Blank (1411015-BLK1)				Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1411015-DUP1)				Source: P403034-01 Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg		ND				30	
Matrix Spike (1411015-MS1)				Source: P403034-01 Prepared & Analyzed: 13-Mar-14						
Gasoline Range Organics (C6-C10)	0.44		mg/L	0.450	ND	97.8	75-125			

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Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	Reported:
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	14-Mar-14 09:35

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1411016 - DRO Extraction EPA 3550C										
Blank (1411016-BLK1)					Prepared & Analyzed: 13-Mar-14					
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg							
Duplicate (1411016-DUP1)					Source: P403034-01 Prepared & Analyzed: 13-Mar-14					
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1411016-MS1)					Source: P403034-01 Prepared & Analyzed: 13-Mar-14					
Diesel Range Organics (C10-C28)	172		mg/L	250	ND	68.7	75-125			SPK I

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
14-Mar-14 09:35

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1411019 - Anion Extraction EPA 300.0										
Blank (1411019-BLK1)					Prepared & Analyzed: 13-Mar-14					
Chloride	ND	9.96	mg/kg							
LCS (1411019-BS1)					Prepared & Analyzed: 13-Mar-14					
Chloride	506	9.99	mg/kg	500		101	90-110			
Matrix Spike (1411019-MS1)					Source: P403034-01 Prepared & Analyzed: 13-Mar-14					
Chloride	502	9.95	mg/kg	498	ND	101	80-120			
Matrix Spike Dup (1411019-MSD1)					Source: P403034-01 Prepared & Analyzed: 13-Mar-14					
Chloride	498	9.87	mg/kg	494	ND	101	80-120	0.706	20	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
14-Mar-14 09:35

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

16735

Client: BLAGG ENGINEERING INC.			Project Name / Location: GCU Z05			ANALYSIS / PARAMETERS														
Email results to: Jeff@blagg@aol.com AND: Peace.Jeffrey@BP.com			Sampler Name: JEFF BLAGG			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact	
Client Phone No.: 505-320-1183			Client No.: 94034-0011																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative:															
					HNO ₃	HCl														
NW CORNER @ 8'	3/13/2014	1334	P403034-01	1 x 4 oz				X	X											
MIDDLE BASE 3-pt @ 15'	"	1341	P403034-02	"				X	X											
SE CORNER @ 10'	"	1345	P403034-03	"				X	X											
Relinquished by: (Signature) <i>Jeff Blagg</i>					Date 3/13/14	Time 0738	Received by: (Signature) <i>[Signature]</i>					Date 3/13/14	Time 738							
Relinquished by: (Signature)							Received by: (Signature)													
Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																				
☐ Sample(s) dropped off after hours to secure drop off area.																				



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Analytical Laboratory

5.8 8.6
6.8

7.1



Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
21-Mar-14 08:45

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
3-pt @ -10' 120' S18W	P403054-01A	Solid	03/18/14	03/18/14	Glass Jar, 4 oz.

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Blagg Engineering
 PO Box 87
 Bloomfield NM, 87413

 Project Name: GCU 205
 Project Number: 94034-0011
 Project Manager: Jeff Blagg

 Reported:
 21-Mar-14 08:45

3-pt @ -10' 120' S18W
P403054-01 (Solid)

Analyte	Result	Reporting		Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units						
Volatile Organics by EPA 8021									
Benzene	0.15	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
Toluene	0.35	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
Ethylbenzene	1.20	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
p,m-Xylene	8.16	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
Total Xylenes	8.16	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
Total BTEX	9.87	0.05	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8021B	
Surrogate: Bromochlorobenzene		121 %		80-120	1412017	03/18/14	03/19/14	EPA 8021B	S-02
Surrogate: 1,3-Dichlorobenzene		100 %		80-120	1412017	03/18/14	03/19/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	55.3	5.00	mg/kg	1	1412017	03/18/14	03/19/14	EPA 8015D	
Diesel Range Organics (C10-C28)	34.6	30.0	mg/kg	1	1412016	03/18/14	03/19/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	17.7	9.95	mg/kg	1	1412022	03/19/14	03/19/14	EPA 300.0	

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Blagg Engineering	Project Name:	GCU 205	Reported: 21-Mar-14 08:45
PO Box 87	Project Number:	94034-0011	
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1412017 - Purge and Trap EPA 5030A

Blank (1412017-BLK1)			Prepared: 18-Mar-14 Analyzed: 20-Mar-14							
Benzene	ND	0.001	mg/kg							
Toluene	ND	0.001	"							
Ethylbenzene	ND	0.001	"							
p,m-Xylene	ND	0.001	"							
o-Xylene	ND	0.001	"							
Total Xylenes	ND	0.001	"							
Total BTEX	ND	0.001	"							
Surrogate: 1,3-Dichlorobenzene	44.4		ug/L	50.0		88.7	80-120			
Surrogate: Bromochlorobenzene	47.3		"	50.0		94.6	80-120			

Duplicate (1412017-DUP1)			Source: P403051-01		Prepared: 18-Mar-14 Analyzed: 20-Mar-14					
Benzene	ND	0.001	mg/kg		ND				30	
Toluene	ND	0.001	"		ND				30	
Ethylbenzene	ND	0.001	"		ND				30	
p,m-Xylene	ND	0.001	"		ND				30	
o-Xylene	ND	0.001	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6		ug/L	50.0		97.3	80-120			
Surrogate: Bromochlorobenzene	50.5		"	50.0		101	80-120			

Matrix Spike (1412017-MS1)			Source: P403051-01		Prepared: 18-Mar-14 Analyzed: 20-Mar-14					
Benzene	53.7		ug/L	50.0	ND	107	39-150			
Toluene	53.7		"	50.0	ND	107	46-148			
Ethylbenzene	53.4		"	50.0	ND	107	32-160			
p,m-Xylene	105		"	100	ND	105	46-148			
o-Xylene	52.6		"	50.0	ND	105	46-148			
Surrogate: 1,3-Dichlorobenzene	52.5		"	50.0		105	80-120			
Surrogate: Bromochlorobenzene	53.1		"	50.0		106	80-120			

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Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	Reported:
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	21-Mar-14 08:45

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1412016 - DRO Extraction EPA 3550C										
Blank (1412016-BLK1)				Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1412016-DUP1)				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg		ND				30	
Matrix Spike (1412016-MS1)				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 19-Mar-14						
Diesel Range Organics (C10-C28)	200		mg/L	250	ND	79.9	75-125			

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Blagg Engineering	Project Name:	GCU 205	
PO Box 87	Project Number:	94034-0011	Reported:
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	21-Mar-14 08:45

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1412017 - Purge and Trap EPA 5030A										
Blank (1412017-BLK1)				Prepared: 18-Mar-14 Analyzed: 20-Mar-14						
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg							
Duplicate (1412017-DUP1)				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 20-Mar-14						
Gasoline Range Organics (C6-C10)	ND	0.10	mg/kg		ND				30	
Matrix Spike (1412017-MS1)				Source: P403051-01 Prepared: 18-Mar-14 Analyzed: 20-Mar-14						
Gasoline Range Organics (C6-C10)	0.58		mg/L	0.450	ND	129	75-125			SPK1

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
21-Mar-14 08:45

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1412022 - Anion Extraction EPA 300.0										
Blank (1412022-BLK1)				Prepared & Analyzed: 19-Mar-14						
Chloride	ND	9.94	mg/kg							
LCS (1412022-BS1)				Prepared & Analyzed: 19-Mar-14						
Chloride	484	9.94	mg/kg	497		97.5	90-110			
Matrix Spike (1412022-MS1)				Source: P403054-01 Prepared & Analyzed: 19-Mar-14						
Chloride	506	9.95	mg/kg	497	17.7	98.1	80-120			
Matrix Spike Dup (1412022-MSD1)				Source: P403054-01 Prepared & Analyzed: 19-Mar-14						
Chloride	504	9.83	mg/kg	491	17.7	99.0	80-120	0.335	20	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
21-Mar-14 08:45

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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16754

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Sidewall @ 12'-3pt South of Wellhead	P403070-01A	Soil	03/21/14	03/21/14	Glass Jar, 4 oz.
Sidewall @ 12'-3pt West of Wellhead	P403070-02A	Soil	03/21/14	03/21/14	Glass Jar, 4 oz.

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Sidewall @ 12'-3pt South of Wellhead
P403070-01 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8021B	
Surrogate: Bromochlorobenzene		115 %		80-120		1412042	03/21/14	03/24/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		108 %		80-120		1412042	03/21/14	03/24/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	15.0	5.00	mg/kg	1		1412042	03/21/14	03/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	86.6	30.0	mg/kg	1		1412043	03/21/14	03/24/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	90.1	9.91	mg/kg	1		1412040	03/21/14	03/21/14	EPA 300.0	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Sidewall @ 12'-3pt West of Wellhead
P403070-02 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8021B	
Surrogate: Bromochlorobenzene		94.0 %		80-120	1412042	03/21/14	03/24/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.6 %		80-120	1412042	03/21/14	03/24/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	5.03	4.98	mg/kg	1	1412042	03/21/14	03/24/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1412043	03/21/14	03/24/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	30.7	9.98	mg/kg	1	1412040	03/21/14	03/21/14	EPA 300.0	

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laboratory@envirotech-inc.com



Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1412042 - Purge and Trap EPA 5030A

Blank (1412042-BLK1)

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	48.1		ug/L	50.0		96.3	80-120			
Surrogate: Bromochlorobenzene	48.3		"	50.0		96.5	80-120			

Duplicate (1412042-DUP1)

Source: P403070-01

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	52.4		ug/L	50.0		105	80-120			
Surrogate: Bromochlorobenzene	57.9		"	50.0		116	80-120			

Matrix Spike (1412042-MS1)

Source: P403070-01

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Benzene	53.9		ug/L	50.0	ND	108	39-150			
Toluene	54.1		"	50.0	ND	108	46-148			
Ethylbenzene	56.3		"	50.0	ND	113	32-160			
p,m-Xylene	117		"	100	ND	117	46-148			
o-Xylene	53.5		"	50.0	ND	107	46-148			
Surrogate: 1,3-Dichlorobenzene	57.9		"	50.0		116	80-120			
Surrogate: Bromochlorobenzene	59.6		"	50.0		119	80-120			

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1412042 - Purge and Trap EPA 5030A										
Blank (1412042-BLK1)				Prepared: 21-Mar-14 Analyzed: 24-Mar-14						
Gasoline Range Organics (C6-C10)	ND	5.00	mg/kg							
Duplicate (1412042-DUP1)				Source: P403070-01 Prepared: 21-Mar-14 Analyzed: 24-Mar-14						
Gasoline Range Organics (C6-C10)	15.5	4.99	mg/kg		15.0			2.81	30	
Matrix Spike (1412042-MS1)				Source: P403070-01 Prepared: 21-Mar-14 Analyzed: 24-Mar-14						
Gasoline Range Organics (C6-C10)	0.97		mg/L	0.450	0.30	148	75-125			SPK1

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1412043 - DRO Extraction EPA 3550C

Blank (1412043-BLK1)

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

Duplicate (1412043-DUP1)

Source: P403070-01

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Diesel Range Organics (C10-C28) 69.0 29.9 mg/kg 86.6 22.6 30

Matrix Spike (1412043-MS1)

Source: P403070-01

Prepared: 21-Mar-14 Analyzed: 24-Mar-14

Diesel Range Organics (C10-C28) 306 mg/L 250 82.4 89.6 75-125

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Blagg Engineering
 PO Box 87
 Bloomfield NM, 87413

 Project Name: GCU 205
 Project Number: 94034-0011
 Project Manager: Jeff Blagg

Reported:
 25-Mar-14 13:29

Cation/Anion Analysis - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1412040 - Anion Extraction EPA 300.0
Blank (1412040-BLK1)

Prepared & Analyzed: 21-Mar-14

Chloride	ND	9.89	mg/kg
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LCS (1412040-BS1)

Prepared & Analyzed: 21-Mar-14

Chloride	490	9.95	mg/kg	498	98.5	90-110
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Matrix Spike (1412040-MS1)

Source: P403058-01

Prepared & Analyzed: 21-Mar-14

Chloride	660	9.92	mg/kg	496	157	101	80-120
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Matrix Spike Dup (1412040-MSD1)

Source: P403058-01

Prepared & Analyzed: 21-Mar-14

Chloride	658	9.94	mg/kg	497	157	101	80-120	0.326	20
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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
25-Mar-14 13:29

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

16766

Client: BLAG ENGINEERING INC.			Project Name / Location: GCU 205			ANALYSIS / PARAMETERS													
Email results to: jeffblagg@aol.com peace.jeffrey@BP.com			Sampler Name: Jeff Blagg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	PCRA 8 Metals	Cation / Anion	FIC	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 94034-0011																
Sample No./ Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
sidewalk @ 12'-3 ft south of wellhead	3/21/14	0920	P403070-01	1 x 402				X	X									X	✓
sidewalk @ 12'-3 ft west of wellhead	"	0924	P403070-02	"				X	X									X	✓
Relinquished by: (Signature) Jeff Blagg					Date 3/21/14	Time 1014	Received by: (Signature) Dene...										Date 3/21/14	Time 1015	
Relinquished by: (Signature)							Received by: (Signature)												
Sample Matrix Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			

RUSH





Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW Sidewall 3pc @ 13'-15'	P403086-01A	Soil	03/25/14	03/25/14	Glass Jar, 4 oz.
NW Sidewall 2pc @ 8'	P403086-02A	Soil	03/25/14	03/25/14	Glass Jar, 4 oz.
NW Sidewall 3pc @ 10' (Bedrock Shelf)	P403086-03A	Soil	03/25/14	03/25/14	Glass Jar, 4 oz.

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

SW Sidewall 3pc @ 13'-15'
P403086-01 (Solid)

Analyte	Reporting				Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: Bromochlorobenzene		105 %	80-120		1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		99.3 %	80-120		1413014	03/25/14	03/26/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.98	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1413013	03/25/14	03/25/14	EPA 8015D	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

NW Sidewall 2pc @ 8'
P403086-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: Bromochlorobenzene		102 %		80-120		1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		98.5 %		80-120		1413014	03/25/14	03/26/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1		1413014	03/25/14	03/26/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1		1413013	03/25/14	03/25/14	EPA 8015D	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

NW Sidewall 3pc @ 10' (Bedrock Shelf)
P403086-03 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		93.9 %		80-120	1413014	03/25/14	03/26/14	EPA 8021B	
Surrogate: Bromochlorobenzene		95.7 %		80-120	1413014	03/25/14	03/26/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1413014	03/25/14	03/26/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg	1	1413013	03/25/14	03/25/14	EPA 8015D	

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Blagg Engineering	Project Name:	GCU #205	Reported: 27-Mar-14 11:13
PO Box 87	Project Number:	94034-0011	
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1413014 - Purge and Trap EPA 5030A

Blank (1413014-BLK1)				Prepared & Analyzed: 25-Mar-14						
Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	46.3		ug/L	50.0		92.5	80-120			
Surrogate: Bromochlorobenzene	47.3		"	50.0		94.7	80-120			

Duplicate (1413014-DUP1)				Source: P403090-01		Prepared & Analyzed: 25-Mar-14				
Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6		ug/L	50.0		97.1	80-120			
Surrogate: Bromochlorobenzene	49.3		"	50.0		98.6	80-120			

Matrix Spike (1413014-MS1)				Source: P403090-01		Prepared & Analyzed: 25-Mar-14				
Benzene	46.5		ug/L	50.0	ND	93.0	39-150			
Toluene	46.4		"	50.0	ND	92.7	46-148			
Ethylbenzene	46.0		"	50.0	ND	92.0	32-160			
p,m-Xylene	92.1		"	100	ND	92.1	46-148			
o-Xylene	46.5		"	50.0	ND	92.9	46-148			
Surrogate: 1,3-Dichlorobenzene	47.6		"	50.0		95.2	80-120			
Surrogate: Bromochlorobenzene	47.3		"	50.0		94.5	80-120			

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Blagg Engineering	Project Name:	GCU #205	
PO Box 87	Project Number:	94034-0011	Reported:
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	27-Mar-14 11:13

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1413013 - DRO Extraction EPA 3550C										
Blank (1413013-BLK1)				Prepared & Analyzed: 25-Mar-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg							
Duplicate (1413013-DUP1)				Source: P403090-01 Prepared & Analyzed: 25-Mar-14						
Diesel Range Organics (C10-C28)	ND	29.9	mg/kg		ND				30	
Matrix Spike (1413013-MS1)				Source: P403090-01 Prepared & Analyzed: 25-Mar-14						
Diesel Range Organics (C10-C28)	60.4		mg/L	250	ND	24.2	75-125			SPK1

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1413014 - Purge and Trap EPA 5030A

Blank (1413014-BLK1)

Prepared & Analyzed: 25-Mar-14

Gasoline Range Organics (C6-C10) ND 4.98 mg/kg

Duplicate (1413014-DUP1)

Source: P403090-01

Prepared & Analyzed: 25-Mar-14

Gasoline Range Organics (C6-C10) ND 4.99 mg/kg ND 30

Matrix Spike (1413014-MS1)

Source: P403090-01

Prepared & Analyzed: 25-Mar-14

Gasoline Range Organics (C6-C10) 0.46 mg/L 0.450 ND 102 75-125

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU #205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
27-Mar-14 11:13

Notes and Definitions

SPK1 The spike recovery for this QC sample is outside of control limits.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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RUSH

CHAIN OF CUSTODY RECORD

16779

Client: BLASS ENGR. / BP			Project Name / Location: ECU # 205			ANALYSIS / PARAMETERS													
Email results to: JEFFCBLASS@aol.com PEACE - JEFFREY@BP.COM BLASS - NJU@YAHOO.COM			Sampler Name: NELSON VELEZ			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE	2 PT. COMPOSITE	3 PT. COMPOSITE	Sample Cool	Sample Intact
Client Phone No.: (505) 320-1183			Client No.: 94034-0011																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No. / Volume of Containers	Preservative														
					HNO ₃	HCl	Other												
SW SIDEWALL 3 PC @ 13'-15'	3/25/14	0900	P403080-01	1-4oz.			✓	✓	✓								✓		X
NW SIDEWALL 2 PC @ 8'	3/25/14	0904	P403080-02	1-4oz			✓	✓	✓							✓		X	
NW SIDEWALL 3 PC @ 10' (BEDROCK SHELF)	3/25/14	0910	P403080-03	1-4oz			✓	✓	✓							✓		X	
Relinquished by: (Signature): <i>[Signature]</i> - BLASS ENGR.					Date	Time	Received by: (Signature): <i>[Signature]</i>					Date	Time						
Relinquished by: (Signature):							Received by: (Signature):												
Sample Matrix: Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐					RUSH ANALYSIS REQUESTED														
☐ Sample(s) dropped off after hours to secure drop off area. 20.9 22.3 21.3 (21.5)										BILL INVOICE BLASS ENGR. CONTACT: JEFF BLASS P.O. BOX 87 BLFD, NM 87413									

Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
NW Corner Base @ 15'	P403096-01A	Soil	03/27/14	03/27/14	Glass Jar, 4 oz.
NW Corner Wall @ 12' North Side 3-pt Comp	P403096-02A	Soil	03/27/14	03/27/14	Glass Jar, 4 oz.
NW Corner Wall @ 12' West Side 3-pt Comp	P403096-03A	Soil	03/27/14	03/27/14	Glass Jar, 4 oz.
Sidewall S. of Wellhead 3-point Resample	P403096-04A	Soil	03/27/14	03/27/14	Glass Jar, 4 oz.

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Blagg Engineering	Project Name:	GCU 205	Reported: 28-Mar-14 16:29
PO Box 87	Project Number:	94034-0011	
Bloomfield NM, 87413	Project Manager:	Jeff Blagg	

NW Corner Base @ 15'
P403096-01 (Solid)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<u>Volatile Organics by EPA 8021</u>									
Benzene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
p,m-Xylenc	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: Bromochlorobenzene		104 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		98.2 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B	
<u>Nonhalogenated Organics by 8015</u>									
Gasoline Range Organics (C6-C10)	11.7	4.98	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8015D	
Diesel Range Organics (C10-C28)	101	29.9	mg/kg	1	1413029	03/27/14	03/28/14	EPA 8015D	
<u>Cation/Anion Analysis</u>									
Chloride	21.3	9.93	mg/kg	1	1413031	03/27/14	03/27/14	EPA 300.0	

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Blagg Engineering
 PO Box 87
 Bloomfield NM, 87413

 Project Name: GCU 205
 Project Number: 94034-0011
 Project Manager: Jeff Blagg

 Reported:
 28-Mar-14 16:29

NW Corner Wall @ 12' North Side 3-pt Comp
P403096-02 (Solid)

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
p,m-Xylene	0.77	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
Total Xylenes	0.77	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
Total BTEX	0.77	0.05	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: Bromochlorobenzene		115 %	80-120			1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		109 %	80-120			1413030	03/27/14	03/28/14	EPA 8021B	
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	23.7	5.00	mg/kg	1		1413030	03/27/14	03/28/14	EPA 8015D	
Diesel Range Organics (C10-C28)	225	29.9	mg/kg	1		1413029	03/27/14	03/28/14	EPA 8015D	
Cation/Anion Analysis										
Chloride	62.7	10.0	mg/kg	1		1413031	03/27/14	03/27/14	EPA 300.0	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

**NW Corner Wall @ 12' West Side 3-pt Comp
P403096-03 (Solid)**

Analyte	Result	Reporting			Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit	Units							
Volatile Organics by EPA 8021										
Benzene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
Toluene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
Ethylbenzene	0.43	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
p,m-Xylene	2.87	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
o-Xylene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
Total Xylenes	2.87	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
Total BTEX	3.31	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B		
Surrogate: Bromochlorobenzene		158 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B		S-02
Surrogate: 1,3-Dichlorobenzene		133 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B		S-02
Nonhalogenated Organics by 8015										
Gasoline Range Organics (C6-C10)	72.6	4.99	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8015D		
Diesel Range Organics (C10-C28)	442	29.9	mg/kg	1	1413029	03/27/14	03/28/14	EPA 8015D		
Cation/Anion Analysis										
Chloride	18.2	9.93	mg/kg	1	1413031	03/27/14	03/27/14	EPA 300.0		

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

**Sidewall S. of Wellhead 3-point Resample
P403096-04 (Solid)**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Toluene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Ethylbenzene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
p,m-Xylene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
o-Xylene	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Total Xylenes	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Total BTEX	ND	0.05	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: Bromochlorobenzene		91.6 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B	
Surrogate: 1,3-Dichlorobenzene		89.6 %		80-120	1413030	03/27/14	03/28/14	EPA 8021B	
Nonhalogenated Organics by 8015									
Gasoline Range Organics (C6-C10)	ND	4.99	mg/kg	1	1413030	03/27/14	03/28/14	EPA 8015D	
Diesel Range Organics (C10-C28)	ND	30.0	mg/kg	1	1413029	03/27/14	03/28/14	EPA 8015D	
Cation/Anion Analysis									
Chloride	20.4	9.93	mg/kg	1	1413031	03/27/14	03/27/14	EPA 300.0	

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1413030 - Purge and Trap EPA 5030A

Blank (1413030-BLK1)

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Benzene	ND	0.05	mg/kg							
Toluene	ND	0.05	"							
Ethylbenzene	ND	0.05	"							
p,m-Xylene	ND	0.05	"							
o-Xylene	ND	0.05	"							
Total Xylenes	ND	0.05	"							
Total BTEX	ND	0.05	"							
Surrogate: 1,3-Dichlorobenzene	46.6		ug/L	50.0		93.3	80-120			
Surrogate: Bromochlorobenzene	46.7		"	50.0		93.4	80-120			

Duplicate (1413030-DUP1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Benzene	ND	0.05	mg/kg		ND				30	
Toluene	ND	0.05	"		ND				30	
Ethylbenzene	ND	0.05	"		ND				30	
p,m-Xylene	ND	0.05	"		ND				30	
o-Xylene	ND	0.05	"		ND				30	
Surrogate: 1,3-Dichlorobenzene	48.6		ug/L	50.0		97.2	80-120			
Surrogate: Bromochlorobenzene	51.3		"	50.0		103	80-120			

Matrix Spike (1413030-MS1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Benzene	50.4		ug/L	50.0	ND	101	39-150			
Toluene	50.3		"	50.0	ND	101	46-148			
Ethylbenzene	51.6		"	50.0	ND	103	32-160			
p,m-Xylene	105		"	100	ND	105	46-148			
o-Xylene	55.5		"	50.0	ND	111	46-148			
Surrogate: 1,3-Dichlorobenzene	52.1		"	50.0		104	80-120			
Surrogate: Bromochlorobenzene	53.0		"	50.0		106	80-120			

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1413029 - DRO Extraction EPA 3550C

Blank (1413029-BLK1)

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Diesel Range Organics (C10-C28) ND 29.9 mg/kg

Duplicate (1413029-DUP1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Diesel Range Organics (C10-C28) 99.2 29.9 mg/kg 101 2.19 30

Matrix Spike (1413029-MS1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Diesel Range Organics (C10-C28) 304 mg/L 250 96.7 83.0 75-125

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PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Nonhalogenated Organics by 8015 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 1413030 - Purge and Trap EPA 5030A

Blank (1413030-BLK1)

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Gasoline Range Organics (C6-C10) ND 5.00 mg/kg

Duplicate (1413030-DUP1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Gasoline Range Organics (C6-C10) 10.4 4.99 mg/kg 11.7 12.1 30

Matrix Spike (1413030-MS1)

Source: P403096-01

Prepared: 27-Mar-14 Analyzed: 28-Mar-14

Gasoline Range Organics (C6-C10) 0.69 mg/L 0.450 0.23 102 75-125

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Blagg Engineering
PO Box 87
Bloomfield NM, 87413

Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Cation/Anion Analysis - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 1413031 - Anion Extraction EPA 300.0										
Blank (1413031-BLK1)				Prepared & Analyzed: 27-Mar-14						
Chloride	ND	9.82	mg/kg							
LCS (1413031-BS1)				Prepared & Analyzed: 27-Mar-14						
Chloride	488	9.96	mg/kg	498		97.9	90-110			
Matrix Spike (1413031-MS1)				Source: P403096-01 Prepared & Analyzed: 27-Mar-14						
Chloride	502	9.82	mg/kg	491	21.3	97.9	80-120			
Matrix Spike Dup (1413031-MSD1)				Source: P403096-01 Prepared & Analyzed: 27-Mar-14						
Chloride	509	9.98	mg/kg	499	21.3	97.7	80-120	1.41	20	

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Project Name: GCU 205
Project Number: 94034-0011
Project Manager: Jeff Blagg

Reported:
28-Mar-14 16:29

Notes and Definitions

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

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CHAIN OF CUSTODY RECORD

16785

Client: BLAGG ENGINEERING INC.			Project Name / Location: GCU 205			ANALYSIS / PARAMETERS													
Email results to: jeffcblagg@BLAGG.COM peace.jeffrey@BP.COM			Sampler Name: Jeff Blagg			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	CO Table 910-1	TPH (418.1)	CHLORIDE			Sample Cool	Sample Intact
Client Phone No.: 505-320-1183			Client No.: 94034-0011																
Sample No. / Identification	Sample Date	Sample Time	Lab No.	No./Volume of Containers	Preservative														
					HNO ₃	HCl													
NW Corner Base @ 15'	3/27/14	0930	P403096-01																
NW Corner Wall @ 12'	"	0941	P403096-02																
North Side 3-pt comp	"	0947	P403096-03																
NW Corner Wall @ 12'	"	0952	P403096-04																
WEST Side 3-pt comp	"																		
SIDEWALL S. of wellhead	"																		
3-point Resample																			
Relinquished by: (Signature) <i>Jeff Blagg</i>				Date	Time	Received by: (Signature) <i>[Signature]</i>				Date	Time								
				3/27/14	1152					3/27/14	1152								
Relinquished by: (Signature)						Received by: (Signature)													
Sample Matrix																			
Soil ☒ Solid ☐ Sludge ☐ Aqueous ☐ Other ☐																			
☐ Sample(s) dropped off after hours to secure drop off area.																			



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9.2, 9.8 2.8 °C