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

						OPERAT	TOR		✓ Initia	al Report		Final Report
Name of Co	mpany: B	P			(Contact: Jef	f Peace					
Address: 20	0 Energy	Court, Farm	ington, N	M 87401		Telephone N	No.: 505-326-94	79				
Facility Nar	ne: Lobato	Gas Com I) 1]	Facility Typ	e: Natural gas v	vell				
Surface Ow	ner: Priva	te		Mineral O	wner: I	Private			API No	. 30045130	83	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	Vest Line	County: Sa	n Juan	
D	3	29N	9W	1,190	North		790	West				
		Lat	itude3	5.75745		Longitude	e107.77361_					
				NAT	URE	OF RELI			** 1 2			
Type of Release							Release: unknow			decovered: no		11.0
Source of Re	lease: unkn	own				unknown	our of Occurrenc	e:	2012; 11:2	Hour of Disc 25 AM	overy: I	May 2,
Was Immedia	ate Notice (Yes 🛭	No 🗌 Not Re	quired	If YES, To	Whom?					
By Whom?						Date and H	our:					
Was a Water	course Read	ched?	Yes 🛚	No		If YES, Vo	lume Impacting t	he Water	rcourse.			
If a Watercou	ırse was Im	pacted, Descr	ibe Fully.*									
				Taken.* During					ur feet dee		n of im	pacted soil
									VILUU	MO" DIA L	II O II e	Qb .
				Supplementa	ıl Info	rmation			N(OV 2 4 20	14	
contamination impacted soil excavated are grade tanks.	n. Groundv was taken ea was back Monitor we	water was found to the IEI land filled with cleaning the second ells have been	nd 4' belov dfarm for t ean soil. M sampled a	en.* Borehole dri v the surface. Exc reatment. Excava fonitor wells were nd results will be ell were found.	cavation tion con installe	was done to tinued until r d in the cente	remove impacted emaining soil san or of the excavated	soil. Ap nples res d area an	oproximate sulted in less at the for	ly 17,400 cul ss than 100 p rmer location	oic yard pm TPI as of the	s of H. The below
regulations all public health should their o	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to addition, NMC	o report are acceptance acceptanc	is true and completed do file certain reference of a C-141 reposition of a C-141 reposit	elease no rt by the emediate	otifications ar NMOCD ma contamination	nd perform correct arked as "Final Roon that pose a three	tive action eport" do eat to gro	ons for rele oes not reli ound water	eases which reve the operation, surface wat	nay end ator of l er, hum	langer iability an health
Δ.	00	0					OIL CONS	SERV	ATION	DIVISIO	Ŋ	
Signature:	off b	que							for	40/	1	
Printed Name	e: Jeff Peac	e			1	Approved by	Environmental Sp	pecialist	: (XV	\wedge	
Title: Field E	nvironmen	tal Coordinate	or		1	Approval Dat	e: 5/6/13	- E	Expiration I	Date:		
E-mail Addre	ess: peace.je	effrey@bp.com	m		(Conditions of	Approval:			Attached		
Date: Novem				one: 505-326-9479	9 (Sw Sp	rmples F	leg F	OR		7	
Attach Addit	tional She	ets If Necess	ary		(Losure.	imples f	308	205		(1	26)
						41100	10 10					

BP America: Lobato GC D 1 (D) Sec 3 – T29N – R9W San Juan County, New Mexico

Summary Record of Impact Remediation

May 2, 2012 Soil impacts encountered during closure of 21 barrel BGT, 95 barrel BGT and removal of subsurface piping and facilities. Original source of impacts not evident, but appeared to be widespread on well pad. Groundwater encountered at a depth of approximately 4 feet below grade.

March 19, 2014 Begin remediation of site by excavation of impacts. Delineation of soil impacts by digging test holes with trackhoe determined that impacts did not extend to San Juan River but did advance off the fenced well pad to the southwest.

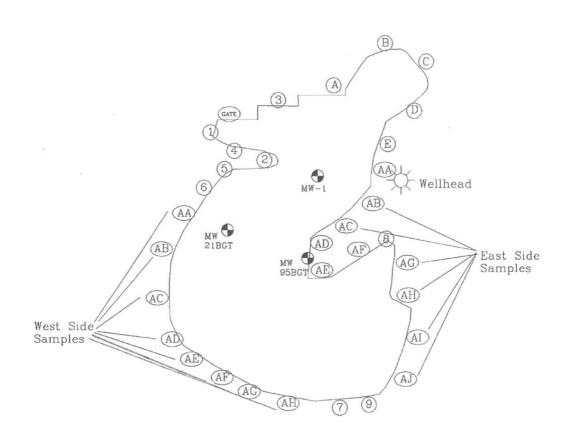
<u>June 27, 2014</u> Complete remediation by excavation. Side wall soil samples in all directions tested below site closure standards (100 ppm TPH, 10 ppm Benzene, 50 ppm BTEX, 100 ppm Chlorides). Excavation size approximately 375' x 180', average depth excavated about 7 feet (3' below water table). Approximately 17,400 cubic yards soil transported to BP operated Crouch Mesa Landfarm for final remediation.

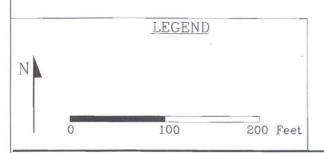
<u>July 24, 2014</u> Sampled Schofield domestic water well (dormant well, not in service, no pump in well) located about 600 feet north of Lobato GC D 1 well site. Analytical test results determined water not impacted by the prior release at the Lobato well pad.

October 23-24, 2014 Installed groundwater monitor wells at excavation center and locations of 21 bbl BGT and 95 bbl BGT.

November 7 and 14, 2014 Develop monitor wells by pumping/bailing. Remove sediment load from wells until clear water visually evident.

November 20, 2014 Sample monitor wells for BTEX and cation/anion analysis.





	E EXCAVATION I BATO GC D1 ** (1	222 0 2 2 2 2 2 2	٠.	BLAGG ENGINEERING, INC.
DATE: 8/2014	FIGURE 1	BY: JCB		P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199



BP America – Summary Lab Data

Lobato GC D 1-(D) Section 3-T29N-R9W

Map ID	Sample	Sampling	Total TPH	Total BTEX	Chloride
	Date	Depth	8015B (mg/Kg)	8021 (mg/Kg)	(mg/Kg)
1	3/27/14	Grab at 6'	ND	ND	ND
2	3/28/14	Grab at 6'	ND	ND	4.4
3	4/2/14	4-pt @ 4'	ND	ND	ND
4	4/22/14	3'pt @ 4'	ND	ND	ND
5	4/23/14	5-pt @ 4'	ND	ND	ND
6	4/28/14	3-pt @ 6'	ND	ND	ND
7	6/19/14	3-pt @ 3.5'	ND	ND	ND
8	6/24/14	3-pt @ 3.5'	ND	ND	ND
9	6/24/14	3-pt @ 3'	44	ND	ND
Gate	4/22/14	3-pt @ 4'	ND	ND	ND
А	4/10/14	3-pt @ 4'	ND	ND	ND
В	4/10/14	3-pt @ 4'	ND	ND	ND
С	4/10/14	3-pt @ 4'	ND	ND	ND
D	4/10/14	3-pt @ 4'	ND	ND	ND
Е	4/10/14	3-pt @ 4'	ND	ND	ND
East AA	4/15/14	3-pt @ 4'	ND	ND	ND
East AB	4/18/14	5-PT @ 4'	ND	ND	ND
East AC	4/21/14	3-pt @ 4'	ND	ND	ND
East AD	4/28/14	3-pt @ 4'	ND	ND	ND
East AE	5/1/14	3-pt @ 4'	23	ND	ND
East AF	6/27/14	3-pt @ 4'	ND	ND	ND
East AG	6/27/14	3-pt @ 4'	ND	ND	ND
East AH	6/27/14	3-pt @ 4'	ND	ND	ND
East Al	6/27/14	3-pt @ 4'	43	ND	ND
East AJ	6/27/14	3-pt @ 4'	49	ND	ND
West AA	5/15/14	3-pt @ 6'	ND	ND	ND
West AB	5/15/14	3-pt @ 6'	ND	ND	ND
West AC	5/16/14	3-pt @ 6'	ND	ND	ND
West AD	5/23/14	3-pt @ 4'	ND	ND	ND
West AE	5/23/14	3-pt @ 4'	ND	ND	ND
West AF	5/23/14	3-pt @ 4'	ND	ND	ND
West AG	5/23/14	3-pt @ 4'	ND	ND	ND
West AH	5/23/14	3-pt @ 4'	ND	ND	ND
West Al	5/23/14	3-pt @ 4'	ND	ND	ND

Analytical Report

Lab Order 1403B86

Date Reported: 4/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 186'N78W@6'

Project: Lobato GC D #1

Collection Date: 3/27/2014 12:48:00 PM

Lab ID: 1403B86-001

Matrix: MEOH (SOIL) Received Date: 3/28/2014 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst:	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/28/2014 12:53:19 PM	12395
Surr: DNOP	92.5	66-131	%REC	1	3/28/2014 12:53:19 PM	12395
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.6	mg/Kg	1	3/28/2014 11:14:15 AM	R17646
Surr: BFB	83.5	74.5-129	%REC	1	3/28/2014 11:14:15 AM	R17646
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.036	mg/Kg	1	3/28/2014 11:14:15 AM	R17646
Toluene	ND	0.036	mg/Kg	1	3/28/2014 11:14:15 AM	R17646
Ethylbenzene	ND	0.036	mg/Kg	1	3/28/2014 11:14:15 AM	R17646
Xylenes, Total	ND	0.072	mg/Kg	1	3/28/2014 11:14:15 AM	R17646
Surr: 4-Bromofluorobenzene	84.0	80-120	%REC	1	3/28/2014 11:14:15 AM	R17646
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	3/28/2014 11:35:15 AM	12426

Sample ID: 1

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

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

Page 1 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403B86

01-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

Sample ID MB-12426

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 12426

RunNo: 17682

Prep Date: 3/28/2014

Analysis Date: 3/28/2014

SeqNo: 509082

Units: mg/Kg

RPDLimit Qual

Analyte Chloride

ND

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD

Sample ID LCS-12426

Client ID: LCSS

SampType: LCS Batch ID: 12426

1.5

TestCode: EPA Method 300.0: Anions

RunNo: 17682

Analyte

Prep Date:

3/28/2014

Analysis Date: 3/28/2014

Result

Result

Result

17

17

SeqNo: 509083

Units: mg/Kg HighLimit

Qual

Chloride

Sample ID 1403B02-001AMS

SampType: MS

SPK value SPK Ref Val

2.774

2.774

SPK value SPK Ref Val

TestCode: EPA Method 300.0: Anions

%REC

LowLimit

LowLimit

%RPD

%RPD

14 1.5 15.00 110

Client ID:

BatchQC

PQL

15.00

15.00

RunNo: 17682

HighLimit

Prep Date: 3/28/2014

Batch ID: 12426

Analysis Date: 3/28/2014

SeqNo: 509096 %REC

Units: mg/Kg

115

RPDLimit

RPDLimit

Qual H

Analyte

Chloride

Sample ID 1403B02-001AMSD

SampType: MSD

PQL

1.5

TestCode: EPA Method 300.0: Anions

Client ID: BatchQC Batch ID: 12426

RunNo: 17682

94.9

Prep Date:

3/28/2014

Analysis Date: 3/28/2014

PQL

1.5

SeqNo: 509097

Units: mg/Kg

115

Analyte Chloride

SPK value SPK Ref Val

%REC LowLimit 95.1

HighLimit

71.3

%RPD 0.256

RPDLimit

Qual 20

Н

Qualifiers:

Value exceeds Maximum Contaminant Level.

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

E Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Sample pH greater than 2.

Reporting Detection Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403B86

01-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

3										
Sample ID MB-12395	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range (Organics	
Client ID: PBS	Batch	ID: 12	395	F	RunNo: 17	7640				
Prep Date: 3/27/2014	Analysis Da	ate: 3/	28/2014	S	SeqNo: 50	07988	Units: mg/K	(g		
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-12395	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Diese	el Range C	Organics	
Client ID: LCSS	Batch	ID: 123	395	F	RunNo: 17	7640				
Prep Date: 3/27/2014	Analysis Da	ate: 3/	28/2014	S	SeqNo: 50	08085	Units: mg/K	(g		
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	4.4		5.000		87.2	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

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Hall Environmental Analysis Laboratory, Inc.

700

WO#: 1403B86

01-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: R1	17646	F	RunNo: 1	17646				
Prep Date:	Analysis D	ate: 3/	/28/2014	8	SeqNo: 5	508815	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								

soline Range Organics (GRO)

90.7 74.5 Surr: BFB 910 1000 129

Sample ID 2.5UG GRO LCS	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: R1	7646	F	RunNo: 1	7646				
Prep Date:	Analysis Da	ate: 3/	28/2014	S	SeqNo: 5	08817	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	98.6	71.7	134			
Surr: BFB	780		1000		78.3	74.5	129			

Sample ID '	1403B86-001AMS	SampTy	pe: MS	3	Test	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID:	186'N78W@6'	Batch	ID: R1	7646	R	RunNo: 1	7646				
Prep Date:		Analysis Da	ate: 3/	28/2014	S	SeqNo: 5	08819	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	17	3.6	17.95	0	95.6	69.5	145			
Surr: BFB		670		717.9		93.1	74.5	129			

Sample ID 1	1403B86-001AMSD	SampTyp	e: M \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: 1	186'N78W@6'	Batch II): R1	7646	F	RunNo: 1	7646				
Prep Date:		Analysis Date	e: 3/	28/2014	S	SeqNo: 5	08820	Units: mg/K	g		
Analyte		Result I	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	17	36	17 95	0	93.7	69.5	145	2.07	20	

97.0

74.5

129

717.9

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit RL

Page 4 of 5

0

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403B86

01-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	1D: R1	7646	F	RunNo: 1	7646				
Prep Date:	Analysis D	ate: 3/	28/2014	5	SeqNo: 5	08827	Units: mg/K	g		
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	0.91		1.000		91.0	80	120			

Sample ID 100NG BTEX LCS	SampType:	LCS	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID:	R17646	F	RunNo: 1	7646				
Prep Date:	Analysis Date:	3/28/2014	5	SeqNo: 5	08829	Units: mg/k	(g		
Analyte	Result PQ	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0 0.0	50 1.000	0	100	80	120			
Toluene	1.0 0.0	50 1.000	0	100	80	120			
Ethylbenzene	0.99 0.0	50 1.000	0	98.5	80	120			
Xylenes, Total	3.0 0.	10 3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	0.98	1.000		98.2	80	120			

Sample ID 1403B84-001AM	S SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	n ID: R1	7646	F	RunNo: 1	7646				
Prep Date:	Analysis D	Date: 3/	28/2014	8	SeqNo: 5	08832	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.74	0.040	0.7937	0	93.1	67.4	135			
Toluene	0.74	0.040	0.7937	0	93.5	72.6	135			
Ethylbenzene	0.74	0.040	0.7937	0.003334	92.9	69.4	143			
Xylenes, Total	2.3	0.079	2.381	0	96.6	70.8	144			
Surr: 4-Bromofluorobenzene	0.58		0.7937		72.6	80	120			S

Sample ID 1403B84-001AM	ISD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	ID: R1	7646	F	RunNo: 1	7646				
Prep Date:	Analysis D	ate: 3/	28/2014	8	SeqNo: 5	08833	Units: mg/k	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.72	0.040	0.7937	0	91.0	67.4	135	2.24	20	
Toluene	0.72	0.040	0.7937	0	90.5	72.6	135	3.26	20	
Ethylbenzene	0.72	0.040	0.7937	0.003334	90.9	69.4	143	2.13	20	
Xylenes, Total	2.2	0.079	2.381	0	94.3	70.8	144	2.43	20	
Surr: 4-Bromofluorobenzene	0.78		0.7937		97.7	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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: www.hallenvironmental.com Client Name: BLAGG Work Order Number: 1403B86 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 3/28/2014 10:00:00 AM Completed By: Lindsay Mangin 3/28/2014 10:14:17 AM 20 Reviewed By: Chain of Custody Yes T No 🗌 Not Present 1. Custody seals intact on sample bottles? No 🗌 Yes V Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In NA 🗌 Yes 🗸 No 🗌 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 6. Sample(s) in proper container(s)? Yes V No 🗌 7. Sufficient sample volume for indicated test(s)? No 🗌 Yes 8. Are samples (except VOA and ONG) properly preserved? Yes No V NA 🗌 9. Was preservative added to bottles? Yes No 🗌 No VOA Vials 10.VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? Yes # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? Yes **V** No _ (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? V No 🗌 13. Are matrices correctly identified on Chain of Custody? No 🗌 V 14. Is it clear what analyses were requested? No 🗌 15. Were all holding times able to be met? Yes V Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No NA V 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

C	hain-	of-Cu	stody Record	Turn-Around	Time:	By Ma. 3-31-	DAT			A.A.		AL		E	NIX	TE	20	BIR	ME	NIT	AL	
lient:	BLA66	ENGINE	EAN INC.	□ Standard	Rush	3-31-	2019														DR	
	RP A	Mesic	4	Project Name	:								v.hal									•
/lailing	Address	P.O.	Box 87	LOBATI	6C D	-1			49	01 H			NE -						109			
B	LOOME	FIELD A	IM 87413	Project #:)5-34				•		345-					
			2-1199	1									-	10000	2000	-	uest	-				
	Fax#:			Project Mana	ger:				only)	न्न					04)							
≀A/QC F	Package: dard		□ Level 4 (Full Validation)	Sampler: J	BA66			TMB's (8021)	(Gas	DRO (AMBO)			SIMS)		,PO ₄ ,S	2 PCB's						
ccredi		□ Othe	r	Sampler: J	BLA66	j⊑.,NPs	inges Jergania	11 189	+ TPH	(GRO/DI	418.1)	504.1)	r 8270	(n	O ₃ ,NO ₂	s / 808		(AC	T.1			or N)
] EDD	(Type)_			Sample Tem	ieliaitine - 😪	10			MTBE	B (G	7 por	pot	10 0	etal	N,	cide	(A)	N-ir	100			Sζ
Date	Time	Matrix	Sample Request ID		Preservative Type		Al No	BTEX +	BTEX + M	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE			Air Bubbles (Y or N)
7/14	1248	SOIL	186 N78W@6	402×1	COOL	-	3	×		X									X			
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Pate: 2014	Time:	Relinquish	ad by: 1 Blogg	Received by:	alle	3/27/2014	Time / 1522	Rei	nark	s: J	3166	- B	LA6	6								
nate:	Time:	Refinquish	ed by:	Received by:	10 0	Date 03/28/14	Time / 1000	5	MA	12 -	to	Pe	ace	. je	ff	rey (e t	3P.	Câu	1		

Analytical Report Lab Order 1403C25

Date Reported: 4/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 140 'N57W @ 6'

Project: LOBATO GC D1

Collection Date: 3/28/2014 9:45:00 AM

Lab ID: 1403C25-001

Matrix: SOIL Received Date: 3/29/2014 10:05:00 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	3/31/2014 12:15:41 PM	12452
Surr: DNOP	92.6	66-131	%REC	1	3/31/2014 12:15:41 PM	12452
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.2	mg/Kg	1	3/31/2014 1:41:13 PM	R17693
Surr: BFB	87.0	74.5-129	%REC	1	3/31/2014 1:41:13 PM	R17693
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.032	mg/Kg	1	3/31/2014 1:41:13 PM	R17693
Toluene	ND	0.032	mg/Kg	1	3/31/2014 1:41:13 PM	R17693
Ethylbenzene	ND	0.032	mg/Kg	1	3/31/2014 1:41:13 PM	R17693
Xylenes, Total	ND	0.064	mg/Kg	1	3/31/2014 1:41:13 PM	R17693
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	3/31/2014 1:41:13 PM	R17693
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	4.4	1.5	mg/Kg	1	3/31/2014 11:15:30 AM	12443

Sample ID: 2

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

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

Page 1 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C25

01-Apr-14

Client:

Blagg Engineering

Project:

LOBATO GC D1

Sample ID MB-12443

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 12443

RunNo: 17704

Prep Date: 3/31/2014

Analyte

Analysis Date: 3/31/2014 PQL

SeqNo: 509810

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

HighLimit

RPDLimit

Qual

Chloride

ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-12443

Batch ID: 12443

RunNo: 17704

Prep Date: 3/31/2014

SeqNo: 509811

Units: mg/Kg

Analysis Date: 3/31/2014

Analyte

PQL SPK value SPK Ref Val

%REC LowLimit

RPDLimit Qual

15.00

Result 14

Result

1.5

110

HighLimit

Chloride

%RPD

%RPD

0

95.0

90

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C25

01-Apr-14

Client:

Blagg Engineering

Project:

LOBATO GC D1

Sample ID MB-12452	SampType: ME	BLK	Tes	tCode: EF	PA Method	8015D: Diese	el Range (Organics	
Client ID: PBS	Batch ID: 12	452	F	RunNo: 17	7675				
Prep Date: 3/31/2014	Analysis Date: 3/	31/2014	5	SeqNo: 50	09001	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Surr: DNOP	8.4	10.00		84.0	66	131			
Sample ID LCS-12452	SampType: LC	S	Tes	tCode: EF	A Method	8015D: Diese	el Range (Organics	
Client ID: LCSS	Batch ID: 124	452	F	RunNo: 17	7675				
Prep Date: 3/31/2014	Analysis Date: 3/	31/2014	S	SeqNo: 50	09002	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10	50.00	0	92.5	60.8	145			
Surr: DNOP	4.1	5.000		81.3	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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C25

01-Apr-14

Client: Project: Blagg Engineering LOBATO GC D1

Sample ID MB-12427 MK

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS

Batch ID: R17693 Analysis Date: 3/31/2014 RunNo: 17693 SeqNo: 509554

Units: mg/Kg

Analyte

Prep Date:

Result PQL

5.0

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD

RPDLimit

Qual

Gasoline Range Organics (GRO)

ND

85.6

74.5

Surr: BFB

860

1000

129

Sample ID LCS-12427 MK

LCSS

SampType: LCS Batch ID: R17693 TestCode: EPA Method 8015D: Gasoline Range

RunNo: 17693

SeqNo: 509569

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Analysis Date: 3/31/2014 Result PQL

SPK value SPK Ref Val

%REC LowLimit 103 94.9

71.7

HighLimit 134 %RPD **RPDLimit**

Qual

Surr: BFB

Client ID:

Prep Date:

26 5.0 25.00 1000

74.5

129

950

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- P Sample pH greater than 2. Reporting Detection Limit

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403C25

01-Apr-14

Client:

Blagg Engineering

Project:

LOBATO GC D1

Sample ID MB-12427 MK	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	n ID: R1	7693	F	RunNo: 1	7693				
Prep Date:	Analysis D	ate: 3/	31/2014	5	SeqNo: 5	09703	Units: mg/k	(g		
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		101	80	120			
Sample ID LCS-12427 MK	SampT	vpe: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		

Sample ID LCS-12427 MK	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batch	n ID: R1	7693	F	RunNo: 1	7693				
Prep Date:	Analysis D	oate: 3/	31/2014	S	SeqNo: 5	09704	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	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

Page 5 of 5



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

Clien	t Name:	BLAGG		Work C	rder Numb	er: 1403C25			RcptNo:	1
Recei	ived by/dat	e: Ar	03/20	9/14						
Logge	ed By:	Anne Thorn	ie	3/29/2014	10:05:00	АМ	ann.	Am	_	
Comp	oleted By:	Anne Thorn	ie	3/31/2014	ı		Anne .	Am	_	
Revie	wed By:	A 03	3/3//14	1						
Chair	n of Cus		, ,		-					
1. C	ustody sea	ls intact on sai	mple bottles?			Yes	No		Not Present	*
2. Is	Chain of C	Custody comple	ete?			Yes 🗸	No		Not Present	
3. H	ow was the	e sample delive	ered?			Courier				
Log	<u>In</u>									
4. v	Vas an atte	empt made to o	cool the samp	es?		Yes 🗹	No		NA 🗆	
5. W	Vere all sar	nples received	at a tempera	ture of >0° C	to 6.0°C	Yes ⊻	No		NA □	
6. s	Sample(s) in	n proper contai	iner(s)?			Yes 🗸	No			
7. S	ufficient sa	mple volume f	or indicated te	est(s)?		Yes 🗹	No			
8. A	re samples	(except VOA	and ONG) pro	perly preserve	ed?	Yes 🗸	No			
9. W	as presen	ative added to	bottles?			Yes	No	V	NA 🗆	
10.V	OA vials ha	ave zero heads	space?			Yes 🗌	No		No VOA Vials	
		ample containe		roken?		Yes	No	V		
									# of preserved bottles checked	
		work match bot				Yes 🗸	No		for pH:	or >12 unless noted)
		pancies on cha correctly iden				Yes 🗸	No		Adjusted?	or - 12 unioss noted)
		nat analyses w				Yes 🗸	No			
		ding times able				Yes 🗸	No		Checked by:	
		customer for a								
Sner	ial Hanc	lling (if app	dicable)							
		notified of all dis		ith this order?		Yes	No		NA 🗸	
[n Notified:			Date			-		
	By Wh		- Company of the state of the s	and the state of t	Via:	□ eMail	Phone	Fax	In Person	
	Regar	E.	ar and the second second of the							
		Instructions:	Authorities of the Control of the Co	Marie de la capación de la capación	A service of the serv	Advantage of the control of the control	TEN AND STREET, LAST TO SEE	OF A THOUSAND	And a standard beautiful and a standard and	
17. A	Additional r	emarks:	- Anna Carlo Tomondo al All (1811)	and the second of the second of the second of	The second second second	To do ill see sel el	and a few section of		a read	_
18 (Cooler Info	ormation								
10.	Cooler N	commerce was a manage to the con-	Condition	Seal Intact	Seal No	Seal Date	Signed	Ву]	
	1	1.3	Good	Yes						

C	hain-	of-Cu	stody Record	Turn-Around	Time: B	4-1-	At-								AE S.		00	PAE III	AE	RIT	AL	
Client:	BLA	De Eng.	In eery Inc.	Project Name	Rush						A	N	AL	YS	SIS		AE	30			OR	
Mailing	Address	P.O. E	30x 87	LOBAT	o GC I) 1			490	01 H									109			
			1 NM 87413	Project #:	# 8ts		(*)			el. 50						505-						
Phone	#: 5	05-6	32-1199										Α	naly	rsis	Req	uest					
email o		-		Project Mana				=	(yluk	(ONE)					04)	S						-
QA/QC	Package: dard		□ Level 4 (Full Validation)	J. E				HWIB's (8021)	(Gas only)	DRO F			SIMS)		,PO4,S	2 PCB's			×			
Accred		[∞] □ Othe	r		/r Yes			I IT	+ TPH	-	418.1)	504.1)	8270		O3,NO2	s / 808;		(A)	لعا			
□ EDD	(Type)_			Sample Tem	iee (inercond	1/25		MER	腸	3 (G	od 4	od 5	10 or	etals	N,N	cide	F	i-VC	610			
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	in Trian	Line.	BTEX + M	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method	PAH's (8310	RCRA 8 Metals	Anions (F,CI,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLOREID			
28/14	0945	SOIL	140'N57WC6	1/1207/CC1	COOL		-001	X		X									X			1
														2								
																				_		\perp
																				_	_	\perp
										_		_								_	_	1
											_	-	_		_				-	-	+	4
						<u> </u>		\vdash		-				\dashv						-	-	\dashv
Date: 28/14	Time: 1352	Relinquishe	ed by:	Received by:	bloe Le	3/23/24	Time i35Z	Ren	narks	3:	Biz	1	Bu	A61	6							
Date:	Time:	Refinquishe	In Walters	Received by:	Man-	Kil	Time 129114 005	_	ein										0		,	
I	f necessary,	amples subr	mitted to Hall Environmental may be subd	contracted to other ac	ccredited laboratorie	es. This serves	as notice of this	possit	oility. A	Any sub	b-cont	racted	data v	will be	clear	y nota	ted on	the ar	nalytica	repor	t.	

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 4/11/2014

CLIENT: Blagg Engineering

Client Sample ID: North Wall 4-pt @ 4'

Project:

Lobato GC D1

Collection Date: 4/2/2014 12:05:00 PM

Lab ID:

1404205-001

Received Date: 4/4/2014 10:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/7/2014 4:31:45 PM	12545
Surr: DNOP	78.7	66-131	%REC	1	4/7/2014 4:31:45 PM	12545
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/7/2014 12:12:08 PM	12550
Surr: BFB	87.0	74.5-129	%REC	1	4/7/2014 12:12:08 PM	12550
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	4/7/2014 12:12:08 PM	12550
Toluene	ND	0.047	mg/Kg	1	4/7/2014 12:12:08 PM	12550
Ethylbenzene	ND	0.047	mg/Kg	1	4/7/2014 12:12:08 PM	12550
Xylenes, Total	ND	0.093	mg/Kg	1	4/7/2014 12:12:08 PM	12550
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	4/7/2014 12:12:08 PM	12550
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/7/2014 11:44:38 PM	12578

Matrix: SOIL

Sample ID: 3

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit

Page 1 of 5

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404205

11-Apr-14

Client: Blagg Engineering
Project: Lobato GC D1

Sample ID MB-12578 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 12578 RunNo: 17852

Prep Date: 4/7/2014 Analysis Date: 4/7/2014 SeqNo: 514831 Units: mg/Kg

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

Chloride ND 1.5

Sample ID LCS-12578 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 12578 RunNo: 17852

Prep Date: 4/7/2014 Analysis Date: 4/7/2014 SeqNo: 514832 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 14 5.000 278 90 S 1.5 0 110 Chloride

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

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404205

11-Apr-14

Client:

Blagg Engineering

Project: Lobato	GC D1	
Sample ID MB-12545	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12545	RunNo: 17793
Prep Date: 4/4/2014	Analysis Date: 4/4/2014	SeqNo: 513063 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Diesel Range Organics (DRO)	ND 10	
Surr: DNOP	7.4 10.00	74.3 66 131
Sample ID LCS-12545	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12545	RunNo: 17793
Prep Date: 4/4/2014	Analysis Date: 4/4/2014	SeqNo: 513064 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Diesel Range Organics (DRO)	46 10 50.00	0 92.5 60.8 145
Surr: DNOP	3.8 5.000	75.3 66 131
Sample ID MB-12557	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12557	RunNo: 17845
Prep Date: 4/7/2014	Analysis Date: 4/8/2014	SeqNo: 514590 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: DNOP	7.4 10.00	74.0 66 131
Sample ID LCS-12557	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12557	RunNo: 17845
Prep Date: 4/7/2014	Analysis Date: 4/8/2014	SeqNo: 514592 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qua
Surr: DNOP	3.9 5.000	78.4 66 131

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Sample pH greater than 2. RL Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404205

11-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-12550	SamnT	ype: ME	DI K	Tes	tCode: El	PA Mothod	8015D: Gaso	lino Pana	0	
							6015D. Gaso	nine Kang	е	
Client ID: PBS	Batch	1D: 12 :	550	F	RunNo: 1	7826				
Prep Date: 4/4/2014	Analysis D	ate: 4/	7/2014	5	SeqNo: 5	14468	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		86.2	74.5	129			
Sample ID LCS-12550	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	

Sample ID LCS-12550	SampTy	pe: LC	S	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch	ID: 12	550	R	tunNo: 1	7826				
Prep Date: 4/4/2014	Analysis Da	te: 4/	7/2014	S	eqNo: 5	14469	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	71.7	134			
Surr: BFB	930		1000		93.3	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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404205

11-Apr-14

Client: Project:

Blagg Engineering

Lobato GC D1

Sample ID MB-12550	SampT	ype: ME	BLK	Tes	tCode: EI	PA Method	8021B: Volat	tiles		
Client ID: PBS	Batch	Batch ID: 12550			RunNo: 17826					
Prep Date: 4/4/2014	Analysis D	ate: 4/	7/2014	S	SeqNo: 514510 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		104	80	120			

Sample ID LCS-12550	SampT	ype: LC	S	Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch	1D: 12	550	F	RunNo: 17826						
Prep Date: 4/4/2014	Analysis D	ate: 4/	7/2014	8	SeqNo: 514511 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	110	80	120				
Toluene	1.0	0.050	1.000	0	101	80	120				
Ethylbenzene	1.0	0.050	1.000	0	101	80	120				
Xylenes, Total	3.0	0.10	3.000	0	101	80	120				
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clier	nt Name:	BLAGG		Work O	rder Numbe	er: 140420	5		RcptNo:	1
Rece	ived by/dat	e: 4G		54/04/1	4					
	ed By:	Michelle Ga	arcia	4/4/2014	10:00:00 Al	M		Michaelle Co	Acia)	
		Michelle G			(0:19:39 A			Michael Ga Michael Ga	•	
	pleted By:	WICHEIP G	arcia	4/4/2014	0.19.39 1	vi t.		" pionetti Ga	new)	
	ewed By:		\times	04	1091	(4			4.00	
	n of Cus		-				_			
7.7		als intact on sa				100		No 🗆	Not Present	
2. Is	s Chain of (Custody compl	lete?			Yes		No L	Not Present	
3. H	low was the	e sample delive	ered?			Courie	ŗ			
Log	<u>In</u>									
4. v	Nas an atte	empt made to	cool the sample	s?		Yes	V	No 🗌	NA 🗆	
5. v	Vere all sar	mples received	d at a temperatu	re of >0°Ct	o 6.0°C	Yes 1		No 🗌	NA 🗆	
6. s	Sample(s) i	n proper conta	iner(s)?			Yes	✓	No 🗌		
7. S	Sufficient sa	imple volume 1	for indicated tes	t(s)?		Yes [/	No 🗌		
8. A	re samples	(except VOA	and ONG) prop	erly preserve	ed?	Yes		No 🗌		
9. v	Vas presen	vative added to	bottles?			Yes [No 🗸	NA 🗌	
10.v	OA vials h	ave zero head	space?			Yes [No 🗆	No VOA Vials ✓	
11.1	Vere any s	ample contain	ers received bro	ken?		Yes [No 🗸		
									# of preserved bottles checked	
		work match bo				Yes		No 🗆	for pH:	or >12 unless noted)
90			ain of custody)	of Cuetody?		Yes		No 🗌	Adjusted?	i - 12 unioss notou)
			ntified on Chain ere requested?					No 🗆		
	u u	ding times abl					V	No 🗆	Checked by:	
		_	authorization.)						_	
			i.							
Spec	cial Hand	dling (if app	olicable)							
16.V	Vas client r	notified of all di	iscrepancies wit	th this order?		Yes		No 🗌	NA 🗹	_
	Perso	n Notified:			Date:					
	By W	hom:			Via:	eMail	Ph	one 🗌 Fax	In Person	
	Regar	rding:		W. A			and analysis to the same of		a character at the control of the	
	Client	Instructions:				•			NO NO NO NO NO NO NO	
17.	Additional	remarks:								
18.	Cooler Info	0.0014 1.01	Condition	Seal Intact	Seal No	Seal Dat		Signed By	I	
	1	1.0		Yes	JORITRO	Ogai Dat		orginos by]	

Client:	Blagg Engir	neering, In	C.	☐ Standard	Rush	4-8-2	014						LAB				
	BP America	1		Project Name	∋ :								ronmer				
Mailing Addr	ess:	P.O. Box	¢ 87		Lobato GC D	1		4	901 H				uquerqı			09	
			ld, NM 87413	Project #:				1		5-345-			ax 505				
Phone #:		(505)320)-1183	1							Name and Address of the Owner, where	Manager Manage	Reques	The same of the sa			
email or Fax	#:			Project Mana	iger:						T						T
QA/QC Packs					Jeff Blagg												
★ Standard			☐ Level 4 (Full Validation)	00				Q								
				Sampler:	Jeff Blagg				비비								
□ EDD (Typ	pe)				\ Yes	□ No	hr.		8								N I
				Sample Tem	NAME OF TAXABLE PARTY.	(D)			9								3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	MI FAC	BTEX (8021)	TPH 8015B (GRO / DRO)							Chloride	Air Bubbles (Y or N)
04/02/2014	12:05	Soil	North Wall 4-pt @ 4'	4oz x 1	cool	-001		х	х							x	
											_			+	\top	1	
	44-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4								1	-	+		+	\vdash	+	+	+
		-							+		+	\vdash		\vdash	+	+	+
		-							+		-	\vdash		\vdash	_	_	
		-							\sqcup		_	\sqcup		\sqcup	\perp	\bot	
												\Box		\Box			
****											+			\vdash		+	
									+		+-	\vdash	\dashv	\vdash	_	_	+-
3/2014	Time: (600	Relinquish	11 Blogg	Received by:	. Wester		,00	Remar BP Cor peace.	ntact:	Jeff P	eace	Pi	ease co	opy re	sults	to:	
Date: 4/3/14	Time: 1729	Relikquish	the Wroters	Received by:	Marie	Date Tim	ne 04 14		,								
		submitted to H	all Environmental may be subcontracted		d laboratories. This	serves as notice of this	s possibi	lity. Any si	ıb-contra	acted data	will be	clearly r	otated on	the anal	ytical re	port.	

Analytical Report Lab Order 1404596

Date Reported: 4/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Lobato GC D1 Project:

Lab ID: 1404596-001

Client Sample ID: NE Wall A: 3-pt @ 4'

Collection Date: 4/10/2014 12:30:00 PM

Matrix: SOIL

Received Date: 4/12/2014 12:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/15/2014 9:52:50 PM	12676
Surr: DNOP	76.9	66-131	%REC	1	4/15/2014 9:52:50 PM	12676
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	4/16/2014 2:56:57 AM	12692
Surr: BFB	87.5	74.5-129	%REC	1	4/16/2014 2:56:57 AM	12692
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.049	mg/Kg	1	4/16/2014 2:56:57 AM	12692
Toluene	ND	0.049	mg/Kg	1	4/16/2014 2:56:57 AM	12692
Ethylbenzene	ND	0.049	mg/Kg	1	4/16/2014 2:56:57 AM	12692
Xylenes, Total	ND	0.098	mg/Kg	1	4/16/2014 2:56:57 AM	12692
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	4/16/2014 2:56:57 AM	12692
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/15/2014 1:26:17 PM	12716

Sample ID: A

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 8

- Sample pH greater than 2. P
- RL Reporting Detection Limit

Analytical Report Lab Order 1404596

Date Reported: 4/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Lobato GC D1 **Project:** 1404596-002

Lab ID:

Collection Date: 4/10/2014 12:40:00 PM

Client Sample ID: NE Wall B: 3-pt @ 4'

Matrix: SOIL Received Date: 4/12/2014 12:00:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	4/15/2014 10:14:56 PM	12676
Surr: DNOP	74.4	66-131	%REC	1	4/15/2014 10:14:56 PM	12676
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/16/2014 3:25:34 AM	12692
Surr: BFB	87.8	74.5-129	%REC	1	4/16/2014 3:25:34 AM	12692
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.047	mg/Kg	1	4/16/2014 3:25:34 AM	12692
Toluene	ND	0.047	mg/Kg	1	4/16/2014 3:25:34 AM	12692
Ethylbenzene	ND	0.047	mg/Kg	1	4/16/2014 3:25:34 AM	12692
Xylenes, Total	ND	0.093	mg/Kg	1	4/16/2014 3:25:34 AM	12692
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	4/16/2014 3:25:34 AM	12692
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	4/15/2014 1:38:42 PM	12716

Sample ID: B

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

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
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 2 of 8
- Sample pH greater than 2. P
- RL Reporting Detection Limit

Analytical Report Lab Order 1404596

Date Reported: 4/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: Lobato GC D1

Lab ID: 1404596-003

Client Sample ID: NE Wall C: 3-pt @ 4'

Collection Date: 4/10/2014 12:50:00 PM

Matrix: SOIL

Received Date: 4/12/2014 12:00:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/15/2014 10:37:02 PM	12676
Surr: DNOP	82.1	66-131	%REC	1	4/15/2014 10:37:02 PM	12676
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/16/2014 3:54:09 AM	12692
Surr: BFB	87.8	74.5-129	%REC	1	4/16/2014 3:54:09 AM	12692
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.047	mg/Kg	1	4/16/2014 3:54:09 AM	12692
Toluene	ND	0.047	mg/Kg	1	4/16/2014 3:54:09 AM	12692
Ethylbenzene	ND	0.047	mg/Kg	1	4/16/2014 3:54:09 AM	12692
Xylenes, Total	ND	0.093	mg/Kg	1	4/16/2014 3:54:09 AM	12692
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	4/16/2014 3:54:09 AM	12692
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/15/2014 2:15:55 PM	12716

Sample ID: C

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

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
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 3 of 8
- Sample pH greater than 2. P
- RL Reporting Detection Limit

Analytical Report

Lab Order 1404596

Date Reported: 4/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project:

Lab ID:

Lobato GC D1

1404596-004

Client Sample ID: NE Wall D: 3-pt @ 4'

Collection Date: 4/10/2014 1:00:00 PM

Received Date: 4/12/2014 12:00:00 PM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/15/2014 10:59:06 PM	12676
Surr: DNOP	84.6	66-131	%REC	1	4/15/2014 10:59:06 PM	12676
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/16/2014 2:22:26 PM	12692
Surr: BFB	84.2	74.5-129	%REC	1	4/16/2014 2:22:26 PM	12692
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.048	mg/Kg	1	4/16/2014 2:22:26 PM	12692
Toluene	ND	0.048	mg/Kg	1	4/16/2014 2:22:26 PM	12692
Ethylbenzene	ND	0.048	mg/Kg	1	4/16/2014 2:22:26 PM	12692
Xylenes, Total	ND	0.096	mg/Kg	1	4/16/2014 2:22:26 PM	12692
Surr: 4-Bromofluorobenzene	98.7	80-120	%REC	1	4/16/2014 2:22:26 PM	12692
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/15/2014 2:28:20 PM	12716

Matrix: SOIL

Sample ID: D

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit ND Page 4 of 8
- Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1404596

Date Reported: 4/22/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lobato GC D1

Lab ID: 1404596-005

Client Sample ID: NE Wall E: 3-pt @ 4'

Collection Date: 4/10/2014 1:10:00 PM

Received Date: 4/12/2014 12:00:00 PM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE (ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/15/2014 11:21:07 PM	12676
Surr: DNOP	74.4	66-131	%REC	1	4/15/2014 11:21:07 PM	12676
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/16/2014 2:51:06 PM	12692
Surr: BFB	84.9	74.5-129	%REC	1	4/16/2014 2:51:06 PM	12692
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.047	mg/Kg	1	4/16/2014 2:51:06 PM	12692
Toluene	ND	0.047	mg/Kg	1	4/16/2014 2:51:06 PM	12692
Ethylbenzene	ND	0.047	mg/Kg	1	4/16/2014 2:51:06 PM	12692
Xylenes, Total	ND	0.094	mg/Kg	1	4/16/2014 2:51:06 PM	12692
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	4/16/2014 2:51:06 PM	12692
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	4/15/2014 2:40:46 PM	12716

Matrix: SOIL

Sample ID: E

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

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

Page 5 of 8

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404596 22-Apr-14

Client:

Blagg Engineering

Project: Lobato (GC D1
Sample ID MB-12676	SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12676 RunNo: 17956
Prep Date: 4/11/2014	Analysis Date: 4/14/2014 SeqNo: 518235 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10
Surr: DNOP	7.2 10.00 71.6 66 131
Sample ID LCS-12676	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12676 RunNo: 17956
Prep Date: 4/11/2014	Analysis Date: 4/14/2014 SeqNo: 518236 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	45 10 50.00 0 89.1 60.8 145
Surr: DNOP	3.6 5.000 72.1 66 131
Sample ID MB-12726	SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12726 RunNo: 18017
Prep Date: 4/15/2014	Analysis Date: 4/17/2014 SeqNo: 521794 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.4 10.00 84.4 57.9 140
Sample ID LCS-12726	SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12726 RunNo: 18017
Prep Date: 4/15/2014	Analysis Date: 4/17/2014 SeqNo: 521795 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.3 5.000 86.4 57.9 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

Reporting Detection Limit

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404596 22-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-12692 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 12692 RunNo: 17997 Prep Date: 4/14/2014 Analysis Date: 4/15/2014 SeqNo: 519538 Units: mg/Kg %RPD Analyte Result PQL SPK value SPK Ref Val %REC HighLimit **RPDLimit** LowLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 870 1000 86.9 74.5 129 Sample ID LCS-12692

Sample ID LCS-12692	Sampry	pe. LC	5	resi	Code: El	A Method	8015D: Gaso	line Rang	е	
Client ID: LCSS	Batch I	D: 12 6	692	R	unNo: 1	7997				
Prep Date: 4/14/2014	Analysis Dat	te: 4/	15/2014	S	eqNo: 5	19539	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	96.3	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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

1.0

1.0

3.0

1.1

0.050

0.050

0.10

1.000

1.000

3.000

1.000

WO#: 1404596

22-Apr-14

Client:

Blagg Engineering

Project:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Lobato GC D1

Sample ID MB-12692	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	Batch ID: 12692			RunNo: 17997					
Prep Date: 4/14/2014	Analysis D	Analysis Date: 4/15/2014			SeqNo: 5	19613	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		104	80	120			
Sample ID LCS-12692	SampT	ype: LC	S	Tes	tCode: E	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	1D: 12	692	F	RunNo: 1	7997				
Prep Date: 4/14/2014	Analysis D	ate: 4/	15/2014	8	SeqNo: 5	19614	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			

0

0

102

101

101

110

80

80

80

80

120

120

120

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

Page 8 of 8



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

					all a sur		
:Client Name: BLAGG	BLAGG Work Order Numb					RcptN	0: 1
Received by/date:	CHIZH						
Logged By: Lindsay Mangin	4/12/2014 12:00:00	PM		Streety HE	2000		
Completed By: Lindsay Mangin	Mangin 4/14/2014 8:39:53 AN			Jimshy Ht	The same		
Reviewed By:	014		U				
Chain of Custody	011.112	0, 1					
Custody seals intact on sample bottles?		Yes		No .		Not Present ✔	,
Is Chain of Custody complete?		Yes	_	No .		Not Present	
3. How was the sample delivered?					11011100011		
3. How was the sample delivered?		Cour	<u>61</u>				
<u>Log In</u>							
4. Was an attempt made to cool the sample	es?	Yes	~	No		NA	
5. Were all samples received at a temperal	ture of >0° C to 6.0°C	Yes	V .	No		NA	
6. Sample(s) in proper container(s)?		Yes	Y	No			
7. Sufficient sample volume for indicated te	st(s)?	Yes	V	No			
8. Are samples (except VOA and ONG) pro	Yes	V	No				
9. Was preservative added to bottles?		Yes		No 1	/	NA	
10.VOA vials have zero headspace?		Yes		No		No VOA Vials ✔	,
11. Were any sample containers received broken?			(80)	No	V	# - 1	
						# of preserved bottles checked	
12. Does paperwork match bottle labels?			.	No	**	for pH:	2 or >12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custody?			~	No	(x .)	Adjusted?	a or a ta amoso riotoay
14. Is it clear what analyses were requested?			V	No	**		
15. Were all holding times able to be met? (If no, notify customer for authorization.)			V	No	8	Checked by	r
Special Handling (if applicable)							
16. Was client notified of all discrepancies w	ith this order?	Yes	10 10 E	No	8	NA ¥	,
Person Notified:	Date:			THE STREET, THE STREET, STREET		2.00	
By Whom:	Via:	eMa	il ·	Phone F	ax	In Person	
Regarding:	VALUE (A. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	MAY IN THE TAXABLE WAS ASSESSED.	Maria Maria Part	ALTERNATION OF THE PROPERTY OF THE PARTY OF		ACTION OF LANSA AND ACTION OF	
Client Instructions:						T. V.	
17. Additional remarks:							
18. Cooler Information							
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Da	ite	Signed By			
1 4.1 Good	Yes	E 18 608					

Client:	ient: Blagg Engineering, Inc. BP America			Standard □ Rush				ANALYSIS LABORATORY											
				Project Name:			www.hallenvironmental.com												
Mailing Address: P.O. Box 87 Bloomfield, NM 87413		Lobato GC D1				4901 Hawkins NE - Albuquerque, NM 87109													
		Project #:			Tel. 505-345-3975 Fax 505-345-4107														
Phone #: (505)320-1183							Analysis Request												
email or Fax	#-			Project Mana	iger:			\top		\neg	\Box	\top	T						
QA/QC Packa				1	Jeff Blagg														
)				ĺ ô												
□ Other				Sampler:	Jeff Blagg	1		(GRO / DRO)									9		
□ EDD (Type)		On Ice: ☐ Yes ☐ No				88									or				
		Sample Temperature: 4,1°C			==	3 (G									2				
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX (8021)	TPH 8015B								Chloride	Air Bubbles (Y or N)		
04/10/2014	12:30	Soil	NE Wall A: 3-pt @ 4'	4oz x 1	cool	-001	X	x								х			
04/10/2014	12:40	Soil	NE Wall B: 3-pt @ 4'	40z x 1	cool	-002	x	×			2					х			
04/10/2014	12:50	Soil	NE Wall C: 3-pt @ 4'	40z x 1	cool	-003	×	×								x			
04/10/2014	13:00	Soil	NE Wall D: 3-pt @ 4'	4oz x 1	cool	-004	x	×								x			
04/10/2014 13:10	Soil	NE Wall E: 3-pt @ 4'	40z x 1	cool	-005	х	х								х				
																\perp			
											_	_		Ш		_	\perp		
							-			_	_	_		Ш		\perp			
							\vdash	_		_	_	_	_	Ш	\blacksquare	\rightarrow	_		
Date:	Time:	Relinquished by: Relinquished by:		Received by: Chaptubut 4/11/14 930 Received by: Date Time			Remarks: Bill Blagg BP Contact: Jeff Peace Please copy results to: peace.jeffrey@bp.com												
4/11/14	1724 cessary, samples	submitted to h	Hall Environmental may be subcontract	ed to other accredite	od laboratories. This	4//2//4 / 255 serves as notice of this possi	bility. Any	/ sub-can	racted d	ata wil	ll be cle	arly no	tated on t	he ana	lytical	report.			

Analytical Report Lab Order 1404820

Date Reported: 4/23/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: Lobato GC D1

Lab ID:

Client Sample ID: E Wall AA: 3-pt @ 4' 1404820-001 Matrix: SOIL

Collection Date: 4/15/2014 3:15:00 PM Received Date: 4/17/2014 10:10:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	RGANICS					Analys	: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/18/2014 9:09:33 PM	12758
Surr: DNOP	146	57.9-140	S	%REC	1	4/18/2014 9:09:33 PM	12758
EPA METHOD 8015D: GASOLINE RANG	Ε					Analys	RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	4/19/2014 4:00:52 AM	12765
Surr: BFB	88.2	74.5-129		%REC	1	4/19/2014 4:00:52 AM	12765
EPA METHOD 8021B: VOLATILES						Analys	RAA
Benzene	ND	0.049		mg/Kg	1	4/19/2014 4:00:52 AM	12765
Toluene	ND	0.049		mg/Kg	1	4/19/2014 4:00:52 AM	12765
Ethylbenzene	ND	0.049		mg/Kg	1	4/19/2014 4:00:52 AM	12765
Xylenes, Total	ND	0.097		mg/Kg	1	4/19/2014 4:00:52 AM	12765
Surr: 4-Bromofluorobenzene	103	80-120		%REC	1	4/19/2014 4:00:52 AM	12765
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	4/18/2014 5:19:47 PM	12780

Sample ID: AA (East Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 5

- Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404820

23-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-12780

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 12780

PQL

RunNo: 18105

Prep Date:

4/18/2014

Analysis Date: 4/18/2014

SeqNo: 522731

Units: mg/Kg HighLimit

%RPD **RPDLimit** Qual

Analyte Chloride

ND 1.5

Sample ID LCS-12780

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

RunNo: 18105

Prep Date: 4/18/2014

Batch ID: 12780 Analysis Date: 4/18/2014

SeqNo: 522732

Units: mg/Kg

HighLimit %RPD

Qual

PQL

1.5

%REC 92.8

90

LowLimit

110

0

SPK value SPK Ref Val %REC LowLimit

Analyte

Chloride

14

Result

15.00

SPK value SPK Ref Val

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

J Analyte detected below quantitation limits

RSD is greater than RSDlimit O RPD outside accepted recovery limits

Value above quantitation range

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2. Reporting Detection Limit Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404820

23-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Project: Lobato	GC D1	
Sample ID MB-12758	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12758	RunNo: 18068
Prep Date: 4/17/2014	Analysis Date: 4/18/2014	SeqNo: 521273 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Surr: DNOP	10 10.00	102 57.9 140
Sample ID LCS-12758	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12758	RunNo: 18068
Prep Date: 4/17/2014	Analysis Date: 4/18/2014	SeqNo: 521275 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 91.4 60.8 145
Surr: DNOP	4.4 5.000	88.6 57.9 140
Sample ID MB-12781	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 12781	RunNo: 18068
Prep Date: 4/18/2014	Analysis Date: 4/18/2014	SeqNo: 521276 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	9.6 10.00	96.0 57.9 140
Sample ID LCS-12781	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 12781	RunNo: 18068
Prep Date: 4/18/2014	Analysis Date: 4/18/2014	SeqNo: 521898 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.6 5.000	91.5 57.9 140

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

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404820

23-Apr-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID	MB-12765 MK
-----------	-------------

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

74.5

Client ID: **PBS**

Batch ID: R18084

RunNo: 18084

Prep Date:

Analysis Date: 4/18/2014

Units: %REC

SeqNo: 522566

Analyte

85.6

Result PQL

HighLimit

Surr: BFB

Client ID:

Prep Date:

860

SPK value SPK Ref Val 1000

%REC LowLimit

129

RPDLimit Qual

Sample ID LCS-12765 MK

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

LCSS

Batch ID: R18084

1000

RunNo: 18084

Analysis Date: 4/18/2014

SeqNo: 522567

Units: %REC

Analyte

Result 910

%REC

HighLimit

%RPD

PQL

SPK value SPK Ref Val 91.5 LowLimit

%RPD **RPDLimit**

Qual

Surr: BFB

Result

Result

74.5 129

Client ID:

Sample ID MB-12765

SampType: MBLK Batch ID: 12765

PQL

SPK value SPK Ref Val

SPK value SPK Ref Val

TestCode: EPA Method 8015D: Gasoline Range RunNo: 18084

%RPD

Analyte

PBS Prep Date: 4/17/2014

Analysis Date: 4/18/2014

SeqNo: 522600 %REC LowLimit Units: mg/Kg

Gasoline Range Organics (GRO)

LCSS

ND 5.0 860

1000

85.6

HighLimit

129

RPDLimit

Qual

Surr: BFB

Client ID:

Prep Date:

Sample ID LCS-12765

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 18084

74.5

134

129

4/17/2014

Batch ID: 12765

PQL

Analysis Date: 4/18/2014

SeqNo: 522601

Units: mg/Kg

HighLimit

%RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

24 5.0 910

25.00 1000 %REC 97.9 91.5

74.5

LowLimit

71.7

Qualifiers: Value exceeds Maximum Contaminant Level.

Analyte detected below quantitation limits

RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits

Value above quantitation range E

RSD is greater than RSDlimit 0

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit ND

Sample pH greater than 2. Reporting Detection Limit

H

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404820

23-Apr-14

Client: Project: Blagg Engineering

Sample ID MB-12765

Lobato GC D1

SampType: MBLK

Result

1.0

TestCode: EPA Method 8021B: Volatiles

TestCode: EPA Method 8021B: Volatiles

Client ID:

PBS

Batch ID: 12765

PQL

RunNo: 18084

%RPD

Prep Date:

4/17/2014

Analysis Date: 4/18/2014

SeqNo: 522634

Units: mg/Kg HighLimit

RPDLimit Qual

Qual

Analyte Benzene Toluene Ethylbenzene

ND 0.050 ND 0.050 ND 0.050 ND 0.10 Xylenes, Total

1.000

102

120

Sample ID LCS-12765 Client ID: LCSS

SampType: LCS Batch ID: 12765

RunNo: 18084

SPK value SPK Ref Val %REC LowLimit

Units: mg/Kg

Prep Date: 4/17/2014

Surr: 4-Bromofluorobenzene

Analysis Date: 4/18/2014

SegNo: 522635

The same and the s	,						3	3	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit
Benzene	1.1	0.050	1.000	0	109	80	120		
Toluene	1.0	0.050	1.000	0	103	80	120		
Ethylbenzene	1.0	0.050	1.000	0	104	80	120		
Xylenes, Total	3.1	0.10	3.000	0	103	80	120		
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded H
- Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Reporting Detection Limit

Page 5 of 5

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1404820 RcptNo: 1 Client Name: BLAGG Received by/date: Logged By: Ashley Gailegos 4/17/2014 10:10:00 AM 4/17/2014 12:06:01 PM Completed By: **Ashley Gallegos** Reviewed By: 04/17/14 Chain of Custody Not Present ✓ No 1. Custody seals intact on sample bottles? Not Present No 2. Is Chain of Custody complete? Yes V 3 How was the sample delivered? Courier Log In No NA 4. Was an attempt made to cool the samples? Yes 5. Were all samples received at a temperature of >0° C to 6.0°C No NA 6. Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? No No 8. Are samples (except VOA and ONG) properly preserved? Yes NA 9. Was preservative added to bottles? Yes No No VOA Vials ✔ No 10.VOA vials have zero headspace? Yes No V 11. Were any sample containers received broken? Yes # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? No (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? Checked by: 15. Were all holding times able to be met? No Yes (If no, notify customer for authorization.) Special Handling (if applicable) NA V 16. Was client notified of all discrepancies with this order? Yes No 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 1.0 Good Yes

Client	Blagg Engi	neering, In	С.	Standard					AN	ALY	SIS	LAB	OR	ATC	DRY	-
	BP America	a		Project Name	9:			TIS.	w	ww.ha	llenvi	ironmen	ital.com	m		
Mailing Addr	ress:	P.O. Box	¢ 87		Lobato GC D	1		4901				uquerqu			09	
			eld, NM 87413	Project #:					05-345			ax 505				
Phone #:		(505)320	0-1183	1						Anal	ysis I	Reques	t.			
email or Fax	c#:			Project Mana	iger;											П
QA/QC Packa			.+		Jeff Blagg											
Standard			☐ Level 4 (Full Validation)				0								
				Sampler:	Jeff Blagg			D								-
□ EDD (Ty	pe)			On Ice:	¥ Yes	□ No		8								or N)
				Sample Tem	perature:	10	=	0								2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX (8021)	TPH 8015B (GRO / DRO)							Chloride	Air Bubbles (Y or
04/15/2014	15:15	Soil	E Wall AA: 3-pt @ 4'	4oz x 1	cool	-001	х	×						;	x	
																\Box
														\top		\forall
										_				\top		\vdash
							++	+		1				+	+	\forall
		1					+++	+		+			+-+	+	+	\vdash
		+						+		+			++	+	+	\vdash
	1	+						+	++	+			++	+	+	\vdash
		+					1 1	+		+			+-+	+	+	\vdash
			-				+	+		+	\vdash		+	+	+	\vdash
		+							+	+			+-+	+	+	\vdash
		+					+++	+		+	\vdash		++	+	+	\vdash
Date:	Time:	Relinquist	ned by:	Received by:		Date Time	Rema	arks:	Bill Blag	19						
16/2014	1505	1	4 Blegg	Mhatra	1 /21/2	4/14/14 1505	BP C	ontac	: Jeff P	eace	Р	lease co	ору ге	sults f	10:	
Date:	Time:	Relinquist	ned by:	Received by:	Milles	Date Time	peace	e.jeffre	ey@bp.d	com						
4/11/14	1718		eta Waster	A hus	1 Ballea	oc 01/17/14										
If ne	cessary, sample	s submitted to it	Hall Environmental may be subcontract	ted to other accredite	ed laboratories. This	serves as notice of this poss	sibility. Any	sub-con	tracted dat	a will be	clearly	notated on	the analy	tical rep	port.	

Analytical ReportLab Order **1404999**

Date Reported: 5/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: LOBATO GC D1

Client Sample ID: EAST WALL AB 5-pt @ 4'
Collection Date: 4/18/2014 12:40:00 PM

Lab ID: 1404999-001

Matrix: SOIL

Received Date: 4/23/2014 10:02:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/25/2014 10:26:50 AM	12862
Surr: DNOP	89.5	57.9-140	%REC	1	4/25/2014 10:26:50 AM	12862
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	4/25/2014 1:59:11 PM	12866
Surr: BFB	82.7	74.5-129	%REC	1	4/25/2014 1:59:11 PM	12866
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	4/25/2014 1:59:11 PM	12866
Toluene	ND	0.048	mg/Kg	1	4/25/2014 1:59:11 PM	12866
Ethylbenzene	ND	0.048	mg/Kg	1	4/25/2014 1:59:11 PM	12866
Xylenes, Total	ND	0.097	mg/Kg	1	4/25/2014 1:59:11 PM	12866
Surr: 4-Bromofluorobenzene	95.2	80-120	%REC	1	4/25/2014 1:59:11 PM	12866
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/29/2014 2:38:18 PM	12928

Sample ID: AB (East Side)

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

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 Page
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 1 of 6

Lab Order 1404999

Date Reported: 5/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: EAST WALL AC 3-pt @ 4'

Project: LOBATO GC D1

Collection Date: 4/21/2014 1:15:00 PM

Lab ID: 1404999-002

Matrix: SOIL

Received Date: 4/23/2014 10:02:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/25/2014 10:57:50 AM	12862
Surr: DNOP	96.3	57.9-140	%REC	1	4/25/2014 10:57:50 AM	12862
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	4/25/2014 3:25:10 PM	12866
Surr: BFB	84.4	74.5-129	%REC	1	4/25/2014 3:25:10 PM	12866
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	4/25/2014 3:25:10 PM	12866
Toluene	ND	0.047	mg/Kg	1	4/25/2014 3:25:10 PM	12866
Ethylbenzene	ND	0.047	mg/Kg	1	4/25/2014 3:25:10 PM	12866
Xylenes, Total	ND	0.094	mg/Kg	1	4/25/2014 3:25:10 PM	12866
Surr: 4-Bromofluorobenzene	98.2	80-120	%REC	1	4/25/2014 3:25:10 PM	12866
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	4/29/2014 2:50:43 PM	12928

Sample ID: AC (East Side)

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

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 Page 2 of 6
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404999

01-May-14

Client: Project: Blagg Engineering LOBATO GC D1

Sample ID MB-12928

4/29/2014

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 12928

RunNo: 18296

Analysis Date: 4/29/2014

SPK value SPK Ref Val %REC LowLimit

SeqNo: 528344

Units: mg/Kg

HighLimit

%RPD **RPDLimit**

Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-12928

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Prep Date: 4/29/2014 Batch ID: 12928

RunNo: 18296

Units: mg/Kg

Analyte

Analysis Date: 4/29/2014

SeqNo: 528345

HighLimit

RPDLimit Qual

PQL 1.5

15.00

110

Chloride

SPK value SPK Ref Val %REC

14

0

91.5

90

%RPD

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0 RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

48

4.4

10

50.00

5.000

WO#: **1404999**

01-May-14

Client: Project:

Diesel Range Organics (DRO)

Surr: DNOP

Blagg Engineering LOBATO GC D1

Sample ID MB-12862	SampType: MBLK	TestCode: EPA Method 8015D	: Diesel Range Organics
Client ID: PBS	Batch ID: 12862	RunNo: 18177	
Prep Date: 4/24/2014	Analysis Date: 4/24/2014	SeqNo: 524869 Units:	mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	Limit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10		
Surr: DNOP	8.9 10.00	89.4 57.9	140
Sample ID LCS-12862	SampType: LCS	TestCode: EPA Method 8015D	: Diesel Range Organics
Client ID: LCSS	Batch ID: 12862	RunNo: 18177	
Prep Date: 4/24/2014	Analysis Date: 4/24/2014	SeqNo: 524871 Units:	mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit High	Limit %RPD RPDLimit Qual

0

95.3

87.3

60.8

57.9

145

140

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

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404999

01-May-14

Client:

Blagg Engineering

Project:

LOBATO GC D1

Sample ID MB-12866	Sampl	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batcl	n ID: 12	866	F	RunNo: 18222					
Prep Date: 4/24/2014	Analysis D)ate: 4/	25/2014	8	SeqNo: 5	26081	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 830	5.0	1000		83.2	74.5	129			
Sample ID LCS-12866	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch	1D: 12	866	RunNo: 18222						
Prep Date: 4/24/2014	Analysis D	ate: 4/	25/2014	S	SeqNo: 5	26082	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.7	71.7	134			
basoline Range Organics (GRO)										

Sample ID 1404999-001AMS	SampT	ype: MS	;	Test	Code: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: EAST WALL AB 5	-pt Batch	ID: 128	366	R	tunNo: 1	8222				
Prep Date: 4/24/2014	Analysis D	ate: 4/2	25/2014	S	eqNo: 5	26088	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	4.8	24.20	0	107	69.5	145			
Surr: BFB	900		968.1		92.5	74.5	129			

Sample ID 1	404999-001AMSD	SampT	ype: MS	SD	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: E	AST WALL AB 5-	ot Batch	ID: 12	866	R	tunNo: 1	8222				
Prep Date:	4/24/2014	Analysis Da	ate: 4/	25/2014	S	eqNo: 5	26089	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range	Organics (GRO)	24	4.8	24.20	0	101	69.5	145	6.06	20	
Surr: BFB		880		968.1		91.0	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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#:

1404999

01-May-14

Client:

Blagg Engineering

Project:		O GC D1									
Sample ID	1404999-002AMS	SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	EAST WALL AC 3	B-pt Batch	n ID: 12	866	F	RunNo: 1	8222				
Prep Date:	4/24/2014	Analysis D	ate: 4/	25/2014	5	SeqNo: 5	26104	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.047	0.9497	0	107	67.4	135			
Toluene		0.99	0.047	0.9497	0.008187	103	72.6	135			
Ethylbenzene		1.0	0.047	0.9497	0	106	69.4	143			
Xylenes, Total		3.0	0.095	2.849	0.01277	106	70.8	144			
Surr: 4-Brom	nofluorobenzene	0.96		0.9497		101	80	120			
Sample ID	1404999-002AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	EAST WALL AC 3	3-pt Batch	n ID: 12	866	F	RunNo: 1	8222				
Prep Date:	4/24/2014	Analysis D	ate: 4/	25/2014	5	SeqNo: 5	26105	Units: mg/k	⟨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.047	0.9425	0	106	67.4	135	0.864	20	
Toluene		0.97	0.047	0.9425	0.008187	102	72.6	135	2.07	20	
Ethylbenzene		1.0	0.047	0.9425	0	106	69.4	143	0.393	20	
Xylenes, Total		3.0	0.094	2.828	0.01277	104	70.8	144	2.25	20	
Surr: 4-Brom	nofluorobenzene	0.97		0.9425		103	80	120	0	0	
Sample ID	MB-12866	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	n ID: 12	866	F	RunNo: 1	8222				
Prep Date:	4/24/2014	Analysis D	ate: 4/	25/2014	5	SeqNo: 5	26108	Units: mg/k	⟨g		
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-Brom	nofluorobenzene	0.98		1.000		97.6	80	120			
Sample ID	LCS-12866	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	n ID: 12	866	F	RunNo: 1	8222				
Prep Date:	4/24/2014	Analysis D	ate: 4/	25/2014	5	SeqNo: 5	26109	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.1	0.050	1.000	0	105	80	120			
Toluene		0.98	0.050	1.000	0	97.7	80	120			
Ethylbenzene		0.98	0.050	1.000	0	98.0	80	120			
Xylenes, Total		2.9	0.10	3.000	0	97.6	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

1.1

E Value above quantitation range

Surr: 4-Bromofluorobenzene

- 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

80

120

ND Not Detected at the Reporting Limit

105

P Sample pH greater than 2.

1.000

P Sample pH greater than 2.

RL Reporting Detection Limit

Page 6 of 6



11an Environmental Analysis Lavoratory 4901 Hawkins NE

Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name: Bi	LAGG		Work (Order Numb	er: 1404	999			RcptNo:	1
Rece	eived by/date:_	C	3	04/231	14						
Logg	ed By:	Anne Thorr	ie	4/23/201	4 10:02:00	AM		ane.	Am	_	
Com	pleted By:	Anne Thorr	ie	4/24/201	4	١.		am	1-		
Revie	ewed By: کے	A	8	04	124	114					
Chai	in of Custo	dy	8			1,					
1. 0	Custody seals i	ntact on sa	mple bottles?	•		Yes		No		Not Present	
2. 1	s Chain of Cus	tody compl	ete?			Yes	V	No		Not Present	*
3. H	low was the sa	ample delive	ered?			Cour	rier				
Log	<u>ı In</u>					ų.					20.
4. \	Was an attemp	ot made to	cool the samp	les?		Yes	V	No		NA 🗀	
5. V	Were all sample	es received	at a tempera	ture of >0° C	to 6.0°C	Yes	Y	No		NA 🗆	
6. 5	Sample(s) in pr	roper conta	iner(s)?			Yes	v	No			
7. 5	Sufficient samp	le volume f	or indicated to	est(s)?		Yes	~	No			
8. A	Are samples (ex	xcept VOA	and ONG) pr	operly preserve	ad?	Yes	Y	No			
9. v	Vas preservativ	ve added to	bottles?			Yes		No	V	NA 🗆	
10.v	/OA vials have	zero heads	space?			Yes		No		No VOA Vials	
11.1	Were any samp	ple containe	ers received b	roken?		Yes		No	V	# of preserved	
										bottles checked	
	Does paperworl Note discrepan)		Yes	V	No	Ш	for pH: (<2 o	r >12 unless noted)
	re matrices co					Yes	V	No		Adjusted?	
	s it clear what a					Yes	V	No			
	Vere all holding					Yes	V	No		Checked by:	
(1	If no, notify cus	stomer for a	uthorization.)								
Spec	ial Handlin	g (if app	licable)								
	Vas client notif			vith this order?		Yes		No		NA 🗹	
	Person N	otified:	4 to	Mile the reduced hands of relative decreases of a make that is \$ before	Date]
	By Whom	n: [Annual State of the State of th	Via:	☐ eMa	il 🗌	Phone _	Fax	In Person	
	Regarding	g: [and the California and a second	Pale and the state of the National State of	College on Pula College Back	t a madd of the table to be de-		etaatiinade Santaniistaase	44. 1941		
	Client Inst	tructions:					.м	. 4 4 2-4	72 ·		
17. /	Additional rema	arks:									
18.	Cooler Inform	p gen , p m m n n n n n n n n n	FTT 2	g	ra n a an rangan	o na chine de la como	,	And the second of	v <u></u> -		
	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	Temp ⁰C 3.2	Condition Good	Seal Intact	Seal No	Seal Da	te	Signed E	By		
	Ľ	J.Z	Good	169							

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Client:	BLAG	6 Ena	Inearly Inc.	Standard	□ Rush				Total Control											ATC		
	BP	AMERI	CA	Project Name									v.hal									
Mailing	Address	POT	60× 87	LOB	ATO 6C	D 1			49	01 H									7109			
	Bimy	FIFIN	NM 87413	Project #:						el. 50					-	505-						
Phone #			32-1197				*	Vic.					THE RESERVE TO	PERSONAL PROPERTY.	THE RESERVE	Req	1000	THE RESERVE				
email or				Project Mana	ger:			_	(ylu	P					04)							T
QA/QC F	Package: dard		☐ Level 4 (Full Validation)	J.	BLAGG			平 如B's (8021)	(Gas or	新 20			SIMS)		,PO4,S0	PCB's						
Accredi		□ Othe	or	Sampler: Son lice	I- BLAG,	₫ No		8 11 1	+ TPH	RO/DI	18.1)	04.1)	8270		O3,NO2	s / 8082		(A)				or N)
□ EDD	(Type)_		1	Sample Tem	deralure) i			#	BE	3 (G	od 4	po E	0 0	etals	Z,	cide	(A	-\ -\	DE			>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAV		BTEX *-WTBE-	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MR8	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CALORIDE			Air Bubbles (Y or N)
4/13/2014	1240	Son	EAST WALL AB 5-PERY	4 02 x1	6006		-001	×		Х									X	7	7	1
1/13/2014	1365	11	EAST WALL AC 3-pte4		11		102	X		X									X			
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If necessary, san ples 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.

Lab Order 1404B17

Date Reported: 5/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: Lobato GC D1

Lab ID:

Lobato GC D1 1404B17-001

Matrix: SOIL

Client Sample ID: NW Gate 3-pt @ 4'
Collection Date: 4/22/2014 10:15:00 AM

Received Date: 4/26/2014 11:00:00 AM

Result	RL Qı	al Units	DF	Date Analyzed	Batch
ORGANICS				Analyst	BCN
ND	10	mg/Kg	1	4/29/2014 11:54:39 PM	12899
103	57.9-140	%REC	1	4/29/2014 11:54:39 PM	12899
GE				Analyst:	NSB
ND	4.7	mg/Kg	1	4/30/2014 11:57:23 PM	12911
85.9	74.5-129	%REC	1	4/30/2014 11:57:23 PM	12911
				Analyst:	NSB
ND	0.047	mg/Kg	1	4/30/2014 11:57:23 PM	12911
ND	0.047	mg/Kg	1	4/30/2014 11:57:23 PM	12911
ND	0.047	mg/Kg	1	4/30/2014 11:57:23 PM	12911
ND	0.094	mg/Kg	1	4/30/2014 11:57:23 PM	12911
101	80-120	%REC	1	4/30/2014 11:57:23 PM	12911
				Analyst:	JRR
ND	30	mg/Kg	20	5/2/2014 11:30:09 AM	12983
	ORGANICS ND 103 GE ND 85.9 ND ND ND ND ND ND 101	ORGANICS ND 10 103 57.9-140 GE ND 4.7 85.9 74.5-129 ND 0.047 ND 0.047 ND 0.047 ND 0.047 ND 0.047 ND 0.094 101 80-120	ORGANICS ND 10 mg/Kg 103 57.9-140 %REC GE ND 4.7 mg/Kg 85.9 74.5-129 %REC ND 0.047 mg/Kg ND 0.094 mg/Kg 101 80-120 %REC	ORGANICS ND 10 mg/Kg 1 103 57.9-140 %REC 1 GE ND 4.7 mg/Kg 1 85.9 74.5-129 %REC 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1 ND 0.047 mg/Kg 1	ORGANICS Analyst ND 10 mg/Kg 1 4/29/2014 11:54:39 PM 103 57.9-140 %REC 1 4/29/2014 11:54:39 PM GE ND 4.7 mg/Kg 1 4/30/2014 11:57:23 PM 85.9 74.5-129 %REC 1 4/30/2014 11:57:23 PM ND 0.047 mg/Kg 1 4/30/2014 11:57:23 PM ND 0.094 mg/Kg 1 4/30/2014 11:57:23 PM ND 0.094 mg/Kg 1 4/30/2014 11:57:23 PM 101 80-120 %REC 1 4/30/2014 11:57:23 PM Analyst:

Sample ID: Gate

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

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

Page 1 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1404B17

Date Reported: 5/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: Lobato GC D1

1404B17-002

Lab ID:

Collection Date: 4/22/2014 10:40:00 AM

Client Sample ID: NW Corner 3-pt @ 4'

Matrix: SOIL

Received Date: 4/26/2014 11:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	4/30/2014 1:26:30 AM	12899
Surr: DNOP	96.3	57.9-140	%REC	1	4/30/2014 1:26:30 AM	12899
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/1/2014 12:25:56 AM	12911
Surr: BFB	85.1	74.5-129	%REC	1	5/1/2014 12:25:56 AM	12911
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	5/1/2014 12:25:56 AM	12911
Toluene	ND	0.048	mg/Kg	1	5/1/2014 12:25:56 AM	12911
Ethylbenzene	ND	0.048	mg/Kg	1	5/1/2014 12:25:56 AM	12911
Xylenes, Total	ND	0.095	mg/Kg	1	5/1/2014 12:25:56 AM	12911
Surr: 4-Bromofluorobenzene	99.0	80-120	%REC	1	5/1/2014 12:25:56 AM	12911
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/2/2014 12:07:23 PM	12983

Sample ID: 4

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 7

- Sample pH greater than 2. P
- Reporting Detection Limit

Lab Order 1404B17

Date Reported: 5/6/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lobato GC D1

Lab ID: 1404B17-003

Client Sample ID: Pipeline Riser 5-pt @ 4'

Collection Date: 4/23/2014 2:50:00 PM

Received Date: 4/26/2014 11:00:00 AM

Result	RL Qu	ial Units	DF	Date Analyzed	Batch
ORGANICS				Analyst	BCN
ND	9.9	mg/Kg	1	4/30/2014 1:57:40 AM	12899
92.4	57.9-140	%REC	1	4/30/2014 1:57:40 AM	12899
GE				Analyst	: NSB
ND	4.8	mg/Kg	1	5/1/2014 12:54:28 AM	12911
85.7	74.5-129	%REC	1	5/1/2014 12:54:28 AM	12911
				Analyst	NSB
ND	0.048	mg/Kg	1	5/1/2014 12:54:28 AM	12911
ND	0.048	mg/Kg	1	5/1/2014 12:54:28 AM	12911
ND	0.048	mg/Kg	1	5/1/2014 12:54:28 AM	12911
ND	0.096	mg/Kg	1	5/1/2014 12:54:28 AM	12911
100	80-120	%REC	1	5/1/2014 12:54:28 AM	12911
				Analyst	JRR
ND	30	mg/Kg	20	5/2/2014 12:19:48 PM	12983
	ORGANICS ND 92.4 GE ND 85.7 ND ND ND ND ND ND ND 100	ORGANICS ND 9.9 92.4 57.9-140 GE ND 4.8 85.7 74.5-129 ND 0.048 ND 0.048 ND 0.048 ND 0.048 ND 0.096 100 80-120	ORGANICS ND 9.9 mg/Kg 92.4 57.9-140 %REC GE ND 4.8 mg/Kg 85.7 74.5-129 %REC ND 0.048 mg/Kg	ORGANICS ND 9.9 mg/Kg 1 92.4 57.9-140 %REC 1 GE ND 4.8 mg/Kg 1 85.7 74.5-129 %REC 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1 ND 0.048 mg/Kg 1	ORGANICS ND 9.9 mg/Kg 1 4/30/2014 1:57:40 AM 92.4 57.9-140 %REC 1 4/30/2014 1:57:40 AM 6E Analyst ND 4.8 mg/Kg 1 5/1/2014 12:54:28 AM 85.7 74.5-129 %REC 1 5/1/2014 12:54:28 AM 6EX ND 0.048 mg/Kg 1 5/1/2014 12:54:28 AM 7D 0.096 mg/Kg 1 5/1/2014 12:54:28 AM

Matrix: SOIL

Sample ID: 5

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

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

Page 3 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404B17

06-May-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-12983

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 12983

1.5

RunNo: 18386

Prep Date: 5/2/2014 Analysis Date: 5/2/2014

SeqNo: 530932

Units: mg/Kg

RPDLimit Qual

Analyte Chloride

Result

ND

SPK value SPK Ref Val %REC LowLimit

HighLimit

Sample ID LCS-12983 LCSS

SampType: LCS Batch ID: 12983

RunNo: 18386

TestCode: EPA Method 300.0: Anions

Client ID:

Prep Date: 5/2/2014 Analysis Date: 5/2/2014

SegNo: 530933

Units: mg/Kg HighLimit

Analyte

Result

15.00

%RPD **RPDLimit**

Chloride

SPK value SPK Ref Val %REC

110

Qual

14

1.5

PQL

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range E Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

H

Not Detected at the Reporting Limit ND

Sample pH greater than 2. Reporting Detection Limit

Holding times for preparation or analysis exceeded Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404B17

06-May-14

Client:

Blagg Engineering

Project:	Lobato GO	C D1									
Sample ID	1404B17-001AMS	SampTy	ре: М	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	NW Gate 3-pt @ 4'	Batch	ID: 12	899	F	RunNo: 1	8255				
Prep Date:	4/28/2014	Analysis Da	ite: 4	/30/2014	5	SeqNo: 5	28468	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	50	10	49.95	0	101	47.4	148			
Surr: DNOP		4.9		4.995		99.0	57.9	140			
Sample ID	1404B17-001AMSD	SampTy	ре: М	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	NW Gate 3-pt @ 4'	Batch	ID: 12	899	F	RunNo: 1	8255				
Prep Date:	4/28/2014	Analysis Da	te: 4/	30/2014	5	SeqNo: 5	28469	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	Organics (DRO)	51	10	49.90	0	101	47.4	148	0.296	22.7	
Surr: DNOP		4.8		4.990		96.4	57.9	140	0	0	
Sample ID	MB-12899	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch I	ID: 12	899	F	RunNo: 18	8255				
Prep Date:	4/28/2014	Analysis Da	te: 4/	29/2014	8	SeqNo: 5	28690	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	ND	10								
Surr: DNOP		9.0		10.00		90.5	57.9	140			
Sample ID	LCS-12899	SampTy	pe: LC	S	Tes	tCode: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch I	D: 12	899	F	RunNo: 18	8255				
Prep Date:	4/28/2014	Analysis Da	te: 4/	29/2014	S	SeqNo: 52	28691	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	Organics (DRO)	49	10	50.00	0	97.6	60.8	145			
Surr: DNOP		4.3		5.000		86.9	57.9	140			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Reporting Detection Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

Result

24

940

5.0

WO#:

RPDLimit

Qual

1404B17

06-May-14

Client:

Blagg Engineering

Project:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

Lobato GC D1

Sample ID MB-12911	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 12911	RunNo: 18302								
Prep Date: 4/28/2014	Analysis Date: 4/30/2014	SeqNo: 529105	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-12911	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 12911	RunNo: 18302								
Prep Date: 4/28/2014	Analysis Date: 4/30/2014	SegNo: 529106	Units: ma/Ka							

0

%REC

95.1

93.8

LowLimit

71.7

74.5

HighLimit

134

129

SPK value SPK Ref Val

25.00

1000

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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1404B17

06-May-14

Client: Blagg Engineering
Project: Lobato GC D1

Sample ID MB-12911	SampT	уре: МЕ	BLK	Tes	tCode: El	tiles				
Client ID: PBS	Batch	n ID: 12	911	F	RunNo: 1	8302				
Prep Date: 4/28/2014	Analysis D	ate: 4/	30/2014	S	SeqNo: 5	29274	Units: mg/K	g		
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		101	80	120			

Sample ID LCS-12911	1 21 21					TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batcl	n ID: 12	911	R	RunNo: 1	8302								
Prep Date: 4/28/2014	S	SeqNo: 529275 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	1.0	0.050	1.000	0	99.8	80	120							
Ethylbenzene	1.0	0.050	1.000	0	101	80	120							
Xylenes, Total 3.0 0.10 3.000				0	99.0	80	120							
Surr: 4-Bromofluorobenzene	1.0		1.000		104	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

Page 7 of 7



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: 1404B17		RcptNo:	1
Received by/date: AF 0171114				
Logged By: Lindsay Mangin 4/26/2014 11:0	00:00 AM	Jimshy Harry D		
Completed By: Lindsay Mangin 4/28/2014 7:58		Simulas Alloway		
		000		1
Reviewed By: TO 04/28/14 Chain of Custody				ar 11 man 1
1 Custody seals intact on sample bottles?	Yes	No [Not Present	8
Custody sears intact on sample bottles? 2. Is Chain of Custody complete?	Yes 🗹	No L	Not Present	
		NO LLI	TOUT TOOGHT ELL	
3. How was the sample delivered?	Courier			
<u>Log In</u>				
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 🗹	# of preserved	
		()	bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes 🗹	No	for pH:	r >12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗹	No 🗌	Adjusted?	
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 🗆 [Checked by:	
(in no, notify edition for addictization.)				8
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes	No L	NA 🗸	
Person Notified:	Date:	and the second of the second s		!
By Whom:	Via: eMail F	Phone Fax	In Person	·
Regarding:				
Client Instructions:				
17. Additional remarks:				
18. Cooler Information				
Cooler No Temp C Condition Seal Intact Seal	No Seal Date	Signed By		
1 2.7 Good Yes		A contract the contract to have the feet to the feet to the contract to the co		

Client:	Blagg Engir	neering, In	C.	Standard						ANA	ALY	SI	SL	AB	OR	AT	OR	Y
	BP America	1		Project Name	e:	*				W	ww.h	allen	vironi	ment	al.co	om		
Mailing Add	ress:	P.O. Box	x 87		Lobato GC D	91		490	01 H	awkins							109	
		Bloomfie	eld, NM 87413	Project #:				Te	el. 50	5-345	397	5	Fax	505-	345-	-4 107	7	
Phone #:		(505)320	0-1183								Ana	lysis	Req	uest				
email or Fax	d#:			Project Mana	ager:													
QA/QC Pack	age:				Jeff Blagg													
☐ Standard			☐ Level 4 (Full Validation)			1		(GRO / DRO)									
				Sampler:	Jeff Blagg				10									9
☐ EDD (Ty	oe)				p≰CYes	□ No			8									Or N
				Sample Tem	perature:スパ		=		3(6									\
				Container	Preservative		BTEX (8021)		8015B								9	Air Bubbles
Date	Time	Matrix	Sample Request ID	Type and #	Type	HEAL No.	X		H 86								Chloride	Bub
						14041517	BT		TPH								등	Air
04/22/2014	10:15	Soil	NW Gate 3-pt @ 4'	4oz x 1	cool	-001	х		х								х	
04/22/2014	10:40	Soil	NW Corner 3-pt @ 4'	4oz x 1	cool	-002	х		x								х	
04/23/2014	14:50	Soil	Pipeline Riser 5-pt @ 4'	4oz x 1	cool	-003	х		х								х	
											T							
												T					\top	
							Ш											
			1															
Date: 4/25/14	Time:	Relinquish	ned by:	Received by:	1	Date Time				II Blag			21				. An.	
	920	1	My Day 9	Mut L	Jack	1/25/14 920				Jeff Po @bp.c		ŀ	rieas	e co	ру ге	esuits	to:	
Date:	Time:	Relinquish		Received by:	11	Date / Inte		,,-		G-6.0	2111							
1/25/14	1640	Aris	to Walter	In	1de	4/26/14 11/100												

Lab Order 1405106

Date Reported: 5/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: SW Corner Post 3-pt@6'

Project: Lobato GC D1

Collection Date: 4/28/2014 9:30:00 AM

Lab ID: 1405106-001

Matrix: SOIL

Received Date: 5/3/2014 10:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/6/2014 3:16:13 PM	12995
Surr: DNOP	98.3	57.9-140	%REC	1	5/6/2014 3:16:13 PM	12995
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/7/2014 5:27:17 PM	12999
Surr: BFB	86.7	74.5-129	%REC	1	5/7/2014 5:27:17 PM	12999
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	5/7/2014 5:27:17 PM	12999
Toluene	ND	0.046	mg/Kg	1	5/7/2014 5:27:17 PM	12999
Ethylbenzene	ND	0.046	mg/Kg	1	5/7/2014 5:27:17 PM	12999
Xylenes, Total	ND	0.093	mg/Kg	1	5/7/2014 5:27:17 PM	12999
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/7/2014 5:27:17 PM	12999
EPA METHOD 300.0: ANIONS					Analys	t: JRR
Chloride	ND	30	mg/Kg	20	5/7/2014 1:15:19 PM	13053

Sample ID: 6

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

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

Page 1 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1405106

Date Reported: 5/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: E Wall AD 3-pt@4'

 Project:
 Lobato GC D1
 Collection Date: 4/28/2014 4:05:00 PM

 Lab ID:
 1405106-002
 Matrix: SOIL
 Received Date: 5/3/2014 10:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE C	RGANICS				Analys	t: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/6/2014 3:47:28 PM	12995
Surr: DNOP	105	57.9-140	%REC	1	5/6/2014 3:47:28 PM	12995
EPA METHOD 8015D: GASOLINE RANG	E				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/7/2014 5:55:57 PM	12999
Surr: BFB	86.5	74.5-129	%REC	1	5/7/2014 5:55:57 PM	12999
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/7/2014 5:55:57 PM	12999
Toluene	ND	0.047	mg/Kg	1	5/7/2014 5:55:57 PM	12999
Ethylbenzene	ND	0.047	mg/Kg	1	5/7/2014 5:55:57 PM	12999
Xylenes, Total	ND	0.095	mg/Kg	1	5/7/2014 5:55:57 PM	12999
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	5/7/2014 5:55:57 PM	12999
EPA METHOD 300.0: ANIONS					Analys	: JRR
Chloride	ND	30	mg/Kg	20	5/7/2014 1:27:43 PM	13053

Sample ID: AD (East Side)

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

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

Page 2 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1405106

Date Reported: 5/9/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project:

Lab ID:

Lobato GC D1

1405106-003

Client Sample ID: E Wall AE 3-pt@4'

Collection Date: 5/1/2014 8:20:00 AM Received Date: 5/3/2014 10:20:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE (ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	23	10	mg/Kg	1	5/6/2014 4:18:28 PM	12995
Surr: DNOP	99.7	57.9-140	%REC	1	5/6/2014 4:18:28 PM	12995
EPA METHOD 8015D: GASOLINE RANG	BE .				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/7/2014 10:13:09 PM	12999
Surr: BFB	86.8	74.5-129	%REC	1	5/7/2014 10:13:09 PM	12999
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	5/7/2014 10:13:09 PM	12999
Toluene	ND	0.047	mg/Kg	1	5/7/2014 10:13:09 PM	12999
Ethylbenzene	ND	0.047	mg/Kg	1	5/7/2014 10:13:09 PM	12999
Xylenes, Total	ND	0.094	mg/Kg	1	5/7/2014 10:13:09 PM	12999
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/7/2014 10:13:09 PM	12999
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/7/2014 2:29:48 PM	13053

Matrix: SOIL

Sample ID: AE (East Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit

Page 3 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405106

09-May-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-13053

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: Prep Date:

PBS

Batch ID: 13053

RunNo: 18482

5/7/2014

Analysis Date: 5/7/2014

1.5

PQL

SeqNo: 533533

Units: mg/Kg

Analyte

Result

SPK value SPK Ref Val

%REC LowLimit

TestCode: EPA Method 300.0: Anions

HighLimit

RPDLimit

Qual

Chloride

ND

Sample ID LCS-13053

SampType: LCS

RunNo: 18482

Client ID: LCSS Batch ID: 13053

Prep Date: 5/7/2014 Analysis Date: 5/7/2014

SeqNo: 533534

Units: mg/Kg

Analyte

110

Chloride

Result PQL SPK value SPK Ref Val 14 1.5 15.00 0

%REC 91.7

HighLimit LowLimit 90

%RPD **RPDLimit**

%RPD

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

RSD is greater than RSDlimit 0

RPD outside accepted recovery limits R

B Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2. Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

3.9

WO#:

1405106

09-May-14

Client:

Surr: DNOP

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-12995	SampType: MBLK	SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics						
Client ID: PBS	Batch ID: 12995		Rur	No: 18374				
Prep Date: 5/5/2014	Analysis Date: 5/5/20	14	Sec	No: 530743	Units: mg/Kg	9		
Analyte	Result PQL SP	K value SP	K Ref Val %	%REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10							
Surr: DNOP	8.2	10.00		81.9 57.9	140			
Sample ID LCS-12995	SampType: LCS		TestCo	ode: EPA Method	8015D: Diese	I Range C	Organics	
Client ID: LCSS	Batch ID: 12995		Run	No: 18374				
Prep Date: 5/5/2014	Analysis Date: 5/5/20	14	Sec	No: 530744	Units: mg/Kg	3		
Analyte	Result PQL SP	K value SP	K Ref Val %	REC LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44 10	50.00	0	88.0 60.8	145			

78.0

57.9

140

5.000

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

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Hall Environmental Analysis Laboratory, Inc.

880

WO#: 1405106

09-May-14

Client: Blagg Engineering
Project: Lobato GC D1

Sample ID MB-12999 MK SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: R18443 RunNo: 18443

Prep Date: Analysis Date: 5/6/2014 SeqNo: 532561 Units: %REC

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

Surr: BFB 880 1000 88.4 74.5 129

Sample ID LCS-12999 MK SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R18443 RunNo: 18443 Analysis Date: 5/6/2014 Prep Date: SegNo: 532562 Units: %REC %RPD SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Surr: BFB 990 1000 98.5 129

Sample ID MB-12999 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range **PBS** Batch ID: 12999 Client ID: RunNo: 18443 Prep Date: 5/5/2014 Analysis Date: 5/6/2014 SeqNo: 532566 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit Analyte Result PQL HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

88.4

74.5

129

Sample ID LCS-12999 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 12999 RunNo: 18443 SeqNo: 532567 Prep Date: 5/5/2014 Analysis Date: 5/6/2014 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Gasoline Range Organics (GRO)
 23
 5.0
 25.00
 0
 91.0
 71.7
 134

 Surr: BFB
 990
 1000
 98.5
 74.5
 129

1000

Qualifiers:

Surr: BFB

- * 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

Page 6 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405106

09-May-14

Client: Project:

Blagg Engineering Lobato GC D1

Sample ID MB-12999 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 12999 RunNo: 18443 Prep Date: 5/5/2014 Analysis Date: 5/6/2014 SeqNo: 532595 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Result Qual Benzene ND 0.050

 Benzene
 ND
 0.050

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

 Surr: 4-Bromofluorobenzene
 1.0

 Surr: 4-Bromofluorobenzene
 1.0
 1.000
 105
 80
 120

Sample ID LCS-12999	SampT	SampType: LCS TestCode: EPA Method						tiles		
Client ID: LCSS	Batch	Batch ID: 12999 RunNo: 18443								
Prep Date: 5/5/2014	Analysis Date: 5/6/2014 SeqNo: 532596 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	107	80	120			
Ethylbenzene	1.1	0.050	1.000	0	107	80	120			
Xylenes, Total	3.1	0.10	3.000	0	105	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	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

Page 7 of 7



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-

				and the Person of the Person o			
Client Name: BLAGG	Work Order Number:	14051	06			RcptNo:	1
Received by/date: AT	05/03/14					# 89 a	
Logged By: Lindsay Mangin 5.	/3/2014 10:20:00 AM			Street !	Harrist		
Completed By: Lindsay Mangin 5.	/5/2014 7:29:27 AM			Simbuf 4	Happy		
Reviewed By:	5/05/14			V			
Chain of Custody	Joseph						
1. Custody seals intact on sample bottles?		Yes	- ;	No		Not Present	
2. Is Chain of Custody complete?		Yes	Y	No	· `!	Not Present	
3. How was the sample delivered?		Cour	er				
<u>Log In</u>							
Was an attempt made to cool the samples?		Yes	V	No]	NA :	
5. Were all samples received at a temperature of	F >0° C to 6.0°C	Yes	Y	No S		NA 🗀	
6. Sample(s) in proper container(s)?		Yes	Y	No	<u> </u>		
7. Sufficient sample volume for indicated test(s)?		Yes	V	No			
8, Are samples (except VOA and ONG) properly	preserved?	Yes	V	No			
9. Was preservative added to bottles?		Yes	17	No	V	NA	
10.VOA vials have zero headspace?		Yes		No	1.3	No VOA Vials 🗸	
11. Were any sample containers received broken	?	Yes		No	Y	# of preserved	w 10.00 w 70.00 m
			(==)		,,	bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes	V	No		for pH: (<2 or	>12 unless noted)
13. Are matrices correctly identified on Chain of Ci	ustody?	Yes	V	No		Adjusted?	. ,
14. Is it clear what analyses were requested?		Yes	V	No			
15. Were all holding times able to be met?		Yes	V	No	1 1	Checked by:	
(If no, notify customer for authorization.)							
Consider the office of the continuous (if a continuous to the cont							
Special Handling (if applicable)			(¬	se l	-1	57	
16. Was client notified of all discrepancies with this	s order?	Yes		No !		NA 🔽	
Person Notified:	Date:						
By Whom:	· Via: [.∮eMa	l l į Pi	hone I	Fax	In Person	
Regarding:		CONTRACTOR OF STREET	AND		m in a inch a efficiel a d	And Andrew Street Street State State State Street S	
Client Instructions:	N A THROUGHWAY WOLD IN THOSE THROUGH				¥		
17. Additional remarks:							
	Intact Seal No S	eal Da	te	Signed By	y		
1 1.0 Good Yes	1	No 13 5. 15-pa 1		***************************************	d 5. 1 (ME) 5. d 1 (E) de		

Client:	Blagg Engi	neering, I	nc.	Standard			ANALYSIS LABORATO					OR	Y				
	BP Americ	а		Project Name	9:					ww	w hall	lenvii	ronmer	ntal co	om.		
Mailing Addr	ess:	P.O. Box	¢ 87		Lobato GC D	1		490	1 Hav				ıquerq			109	
,			eld, NM 87413	Project #:		-	1		. 505-				ax 505				
Phone #:		(505)320	D-1183	1			Analysis F					Request					
email or Fax	#:			Project Mana	ger:			T									
QA/QC Packa	age:]	Jeff Blagg												
Standard	_								00								
,				Sampler:	Jeff Blagg		1										
□ EDD (Typ	ne)					□ No			2								l o
				Sample Tem	perature:	1-0			9								8
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1405104	BTEX (8021)		TPH 8015B (GRO / DRO)							Chloride	Air Bubbles (Y or N)
04/28/2014	9:30	Soil	SW Corner Post 3-pt@6'	4oz x 1	cool	-001	x		х							х	
04/28/2014	16:05	Soil	E Wall AD 3-pt@4'	4oz x 1	cool	-00Z	х		х							x	\top
05/01/2014	8:20	Soil	E Wall AE 3-pt@4'	40z x 1	cool	-003	х		х							x	\top
												\neg		\Box	\Box	\top	\top
								\neg				\dashv		Н	\forall		+
					,			\top	+	1		\top	\top				\top
								\neg				\top					
Date:	Time:	Relinquish Rélinquish	Bleezy	Received by: Received by:	Daller	Date Time 5/2/1/ 8/5 Date Time 05/3/14	BP C	Conta	Bill I ct: Je rey@	ff Pe		Ple	ease co	ру ге	sults	to:	
1414	1644	1/10	with Walles		h	1020	1114										
it nec	essary, samples	supmitted to	Hall Environmental may be subcontracted	eu to other accredite	a raporatories. This	serves as notice of this possil	oility. Any	y sub-c	ontracte	d data v	rill be ch	early no	otated on	he anal	ytical n	eport.	

Lab Order 1405974

Date Reported: 5/27/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project:

Lobato GC D1 Lab ID: 1405974-001

Client Sample ID: West Wall AA @ 6'

Collection Date: 5/15/2014 8:40:00 AM

Matrix: SOIL

Received Date: 5/22/2014 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE				Analyst	BCN	
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/23/2014 12:50:43 PM	13321
Surr: DNOP	118	57.9-140	%REC	1	5/23/2014 12:50:43 PM	13321
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/23/2014 4:25:58 PM	13319
Surr: BFB	82.2	80-120	%REC	1	5/23/2014 4:25:58 PM	13319
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	5/23/2014 4:25:58 PM	13319
Toluene	ND	0.048	mg/Kg	1	5/23/2014 4:25:58 PM	13319
Ethylbenzene	ND	0.048	mg/Kg	1	5/23/2014 4:25:58 PM	13319
Xylenes, Total	ND	0.096	mg/Kg	1	5/23/2014 4:25:58 PM	13319
Surr: 4-Bromofluorobenzene	96.6	80-120	%REC	1	5/23/2014 4:25:58 PM	13319
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/23/2014 3:28:27 PM	13335

Sample ID: AA (West Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 7
- Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1405974

Date Reported: 5/27/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall AB @ 6'

Project: Lobato GC D1

Collection Date: 5/15/2014 1:40:00 PM

Lab ID: 1405974-002

Matrix: SOIL

Received Date: 5/22/2014 10:00:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/23/2014 4:26:08 PM	13321
Surr: DNOP	106	57.9-140	%REC	1	5/23/2014 4:26:08 PM	13321
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/23/2014 5:51:49 PM	13319
Surr: BFB	85.0	80-120	%REC	1	5/23/2014 5:51:49 PM	13319
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.047	mg/Kg	1	5/23/2014 5:51:49 PM	13319
Toluene	ND	0.047	mg/Kg	1	5/23/2014 5:51:49 PM	13319
Ethylbenzene	ND	0.047	mg/Kg	1	5/23/2014 5:51:49 PM	13319
Xylenes, Total	ND	0.093	mg/Kg	1	5/23/2014 5:51:49 PM	13319
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	5/23/2014 5:51:49 PM	13319
EPA METHOD 300.0: ANIONS					Analys	JRR
Chloride	ND	30	mg/Kg	20	5/23/2014 4:42:54 PM	13335

Sample ID: AB (West Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 7

- Sample pH greater than 2. P
- RL Reporting Detection Limit

Lab Order 1405974

Date Reported: 5/27/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall AC @ 6'

Project: Lobato GC D1

Collection Date: 5/16/2014 10:05:00 AM

Lab ID: 1405974-003 **Matrix:** SOIL

Received Date: 5/22/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/23/2014 4:56:17 PM	13321
Surr: DNOP	95.4	57.9-140	%REC	1	5/23/2014 4:56:17 PM	13321
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/23/2014 6:20:26 PM	13319
Surr: BFB	84.7	80-120	%REC	1	5/23/2014 6:20:26 PM	13319
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	5/23/2014 6:20:26 PM	13319
Toluene	ND	0.047	mg/Kg	1	5/23/2014 6:20:26 PM	13319
Ethylbenzene	ND	0.047	mg/Kg	1	5/23/2014 6:20:26 PM	13319
Xylenes, Total	ND	0.095	mg/Kg	1	5/23/2014 6:20:26 PM	13319
Surr: 4-Bromofluorobenzene	99.5	80-120	%REC	1	5/23/2014 6:20:26 PM	13319
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/23/2014 4:18:05 PM	13335

Sample ID: AC (West Side)

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

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

Page 3 of 7

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405974

27-May-14

Client:

Blagg Engineering

Project:

Lobato GC D1

MB-13335 Sample ID

SampType: MBLK

TestCode: EPA Method 300.0: Anions

LowLimit

Client ID:

PBS

Batch ID: 13335

RunNo: 18847

Prep Date: 5/23/2014 Analysis Date: 5/23/2014

SeqNo: 544228

%REC

Units: mg/Kg

HighLimit

RPDLimit Qual

Analyte Chloride

Result PQL ND 1.5

Sample ID LCS-13335

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 13335

RunNo: 18847

Prep Date: 5/23/2014 Analysis Date: 5/23/2014

SeqNo: 544229

Units: mg/Kg

Qual

Analyte

Result

SPK value SPK Ref Val %REC **PQL** 15.00

HighLimit

RPDLimit

SPK value SPK Ref Val

110

14

95.2

90

%RPD

Chloride

%RPD

1.5

Qualifiers:

Е

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Analyte detected below quantitation limits

RSD is greater than RSDlimit 0

Value above quantitation range

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

RL

H Holding times for preparation or analysis exceeded

Sample pH greater than 2.

ND Not Detected at the Reporting Limit Reporting Detection Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405974

27-May-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Project:	Lobato G	C D1									
Sample ID	MB-13321	SampTy	oe: MI	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch I	D: 13	321	F	RunNo: 1	8820				
Prep Date:	5/22/2014	Analysis Da	te: 5/	23/2014	8	SeqNo: 5	43460	Units: mg/k	≺g		
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		95.1	57.9	140			
Sample ID	LCS-13321	SampTyp	e: LC	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch I	D: 13	321	R	RunNo: 1	8820				
Prep Date:	5/22/2014	Analysis Dat	e: 5 /	23/2014	S	SeqNo: 5	43509	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	47	10	50.00	0	93.6	60.8	145			
Surr: DNOP		4.7		5.000		94.3	57.9	140			
Sample ID	1405974-001AMS	SampTyp	e: MS	3	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	West Wall AA @ 6	Batch I	D: 13	321	R	RunNo: 1	8820				
Prep Date:	5/22/2014	Analysis Dat	e: 5 /	23/2014	S	SeqNo: 54	43726	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	40	10	50.05	0	80.5	40.1	152			
Surr: DNOP		4.5		5.005		90.4	57.9	140			
Sample ID	1405974-001AMSE	SampTyp	e: MS	SD	Test	Code: EF	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	West Wall AA @ 6	Batch I	D: 13	321	R	tunNo: 18	8820				
Prep Date:	5/22/2014	Analysis Dat	e: 5 /	23/2014	S	eqNo: 54	44110	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	53	9.9	49.31	0	107	40.1	152	26.8	32.1	
Surr: DNOP		5.0		4.931		102	57.9	140	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

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1405974

27-May-14

Client:

Blagg Engineering

Project:	Lobato G	GC D1									
Sample ID	MB-13319	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 13	319	R	RunNo: 18829					
Prep Date:	5/22/2014	Analysis Da	ite: 5/	23/2014	S	SeqNo: 5	43975	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	ND	5.0	1000		212		100			
Surr: BFB		810		1000		81.3	80	120			
Sample ID	LCS-13319	SampTy	pe: LC	S	Test	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 13	319	R	tunNo: 1	8829				
Prep Date:	5/22/2014	Analysis Da	ite: 5/	23/2014	S	SeqNo: 5	43976	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	20	5.0	25.00	0	80.0	71.7	134			
Surr: BFB		890		1000		88.7	80	120			
Sample ID	1405974-001AMS	SampTy	ре: М	3	Test	Code: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	West Wall AA @ 6	Batch	ID: 13	319	R	lunNo: 1	8829				
Prep Date:	5/22/2014	Analysis Da	te: 5/	23/2014	S	eqNo: 5	43980	Units: mg/k	⟨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	22	4.7	23.74	0	93.1	69.5	145			
Surr: BFB		850		949.7		89.1	80	120			
Sample ID	1405974-001AMSI	D SampTy	ре: М5	SD	Test	Code: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	West Wall AA @ 6	Batch	ID: 13	319	R	tunNo: 1	8829				
Prep Date:	5/22/2014	Analysis Da	te: 5/	23/2014	S	eqNo: 5	43981	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	21	4.8	23.76	0	89.5	69.5	145	3.80	20	
Surr: BFB		860		950.6		90.5	80	120	0	0	
Sample ID	MB-13327	SampTy	ре: МЕ	BLK	Test	Code: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	ID: 13	327	R	tunNo: 1	8829				
Prep Date:	5/22/2014	Analysis Da	te: 5/	23/2014	S	eqNo: 5	43996	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB		850		1000		84.5	80	120			
Sample ID	LCS-13327	SampTy	pe: LC	S	Test	Code: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	ID: 13	327	R	tunNo: 1	8829				
Prep Date:	5/22/2014	Analysis Da	te: 5/	23/2014	S	eqNo: 5	43997	Units: %RE	C		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

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.

Page 6 of 7

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

1.0

1.000

WO#: 1405974

27-May-14

Client:

Blagg Engineering

Project:

Surr: 4-Bromofluorobenzene

Lobato GC D1

Sample ID MB-13319	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: PBS	Batch	ID: 13	319	F	RunNo: 18829					
Prep Date: 5/22/2014	Analysis D	ate: 5/	23/2014	S	SeqNo: 5	44018	Units: mg/k	(g		
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	0.95		1.000		94.8	80	120			
Sample ID LCS-13319	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	ID: 13	319	F	RunNo: 1	8829				
Prep Date: 5/22/2014	Analysis D	ate: 5/	23/2014	S	SeqNo: 5	44019	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	109	80	120			
Toluene	1.0	0.050	1.000	0	99.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.8	80	120			

102

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

Page 7 of 7



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1405974 RcptNo: 1 Received by/date: Logged By: Lindsay Mangin 5/22/2014 10:00:00 AM Completed By: **Lindsay Mangin** 5/22/2014 1:02:33 PM as Reviewed By: Chain of Custody No 🗌 Not Present 🗸 1 Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Client Log In 4. Was an attempt made to cool the samples? Yes 🗸 No 🗌 NA 🗌 Yes 🗸 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V No 🗌 6. Sample(s) in proper container(s)? Yes V 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? No Yes 9. Was preservative added to bottles? Yes No V NA 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes No 🗌 Yes No V 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No _ No 🗌 14. Is it clear what analyses were requested? Checked by: Yes 🗸 No 🗌 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes NA 🗸 No 🗌 Person Notified: Date: eMail By Whom: Via: Phone Fax Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Seal Date Cooler No Temp °C Condition

Client:	Blagg Engi	neering, I	nc.	Standard □ Rush] [_						LAB				
	BP Americ	a		Project Name	e:								onmer				
Mailing Add	ress:	P.O. Box	v 87		Lobato GC D)1		4901	Hawl							100	
			eld, NM 87413	Project #:			4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107										
Phone #:		(505)32						101.	000-0	1000		CHILD ST. ST.	eques	All the same	4107		
email or Fa	x#:	()		Project Mana	ager:												
	QA/QC Package:			1	Jeff Blagg												
□ Standard								3	2								
□ Other_				Sampler:	Jeff Blagg		1	5	(GRO / DRO)								2
☐ EDD (Ty	□ EDD (Type)			THE RESIDENCE OF THE PARTY OF T	r Yes	⊡ No			2								or o
				Sample Tem	\	=										≥	
Dete	Time	Matrix	Comple Beguest ID	Container	Preservative	VEIDAL NA	(802	24	90100							ge	Bubbles
Date	Time	Matrix	Sample Request ID	Type and #	Туре	1405974	BTEX (8021)	i di								Chloride	Air Bu
05/15/2014	8:40	Soil	West Wall AA @ 6'	4oz x 1	cool	-00	x	>	-							x	+
05/15/2014	13:40	Soil	West Wall AB @ 6'	4oz x 1	cool	-002	х	×								х	
05/16/2014	10:05	Soil	West Wall AC @ 6'	4oz x 1	cool	-003	х	×								х	
Physics of the Statement Western																	
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5,114		-					\square		-		Ш	_			_		_
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	-				-		\vdash	-	-	-		-	_	\vdash	\vdash	+	+
Date:	Time:	Relinquish	ned by:	Received by:		Date Time	Rem	narks:	Rill B	lagg							
Date: 5/21/2014	Koin 826 Jull Blagi			n	Maelen	5/21/2014 820		Contac			ace	Ple	ease co	эру ге	esults	to:	
Date:	1000			Received by:	Marie	Date Time	pead	ce.jeffr	ey@b	p.co	m						
5/21/14	1800				P OT	statu inco											
		submitted to	Hall Environmental may be subcontract	ed to other accredite	d laboratories. This		oility. Ar	ny sub-co	ntracted	data v	vill be c	learly no	tated on	the ana	dytical r	eport.	-

Analytical Report

Lab Order 1405B54

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Lobato GC D1

Lab ID: 1405B54-001

Project:

Client Sample ID: West Wall AD @ 4'

Collection Date: 5/23/2014 11:30:00 AM

Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE C	RGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2014 7:26:55 AM	13378
Surr: DNOP	98.2	57.9-140	%REC	1	5/30/2014 7:26:55 AM	13378
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2014 12:50:09 AM	13398
Surr: BFB	86.6	80-120	%REC	1	5/30/2014 12:50:09 AM	13398
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2014 12:50:09 AM	13398
Toluene	ND	0.049	mg/Kg	1	5/30/2014 12:50:09 AM	13398
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2014 12:50:09 AM	13398
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2014 12:50:09 AM	13398
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	5/30/2014 12:50:09 AM	13398
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 12:04:19 PM	13446

Matrix: SOIL

Sample ID: AD (West Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 10

- Sample pH greater than 2. P
- RL Reporting Detection Limit

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lab ID: Lobato GC D1

1405B54-002

Client Sample ID: West Wall AE @ 4'

Collection Date: 5/23/2014 11:37:00 AM

Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2014 7:57:59 AM	13378
Surr: DNOP	105	57.9-140	%REC	1	5/30/2014 7:57:59 AM	13378
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2014 2:15:55 AM	13398
Surr: BFB	85.7	80-120	%REC	1	5/30/2014 2:15:55 AM	13398
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2014 2:15:55 AM	13398
Toluene	ND	0.047	mg/Kg	1	5/30/2014 2:15:55 AM	13398
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2014 2:15:55 AM	13398
Xylenes, Total	ND	0.095	mg/Kg	1	5/30/2014 2:15:55 AM	13398
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	5/30/2014 2:15:55 AM	13398
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 12:41:32 PM	13446

Matrix: SOIL

Sample ID: AE (West Side)

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

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 Page 2 of 10
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: West Wall AF @ 4'

 Project:
 Lobato GC D1
 Collection Date: 5/23/2014 11:45:00 AM

 Lab ID:
 1405B54-003
 Matrix: SOIL
 Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2014 8:28:56 AM	13378
Surr: DNOP	106	57.9-140	%REC	1	5/30/2014 8:28:56 AM	13378
EPA METHOD 8015D: GASOLINE RANG	SE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2014 3:41:32 AM	13398
Surr: BFB	83.9	80-120	%REC	1	5/30/2014 3:41:32 AM	13398
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2014 3:41:32 AM	13398
Toluene	ND	0.048	mg/Kg	1	5/30/2014 3:41:32 AM	13398
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2014 3:41:32 AM	13398
Xylenes, Total	ND	0.095	mg/Kg	1	5/30/2014 3:41:32 AM	13398
Surr: 4-Bromofluorobenzene	99.3	80-120	%REC	1	5/30/2014 3:41:32 AM	13398
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 1:31:10 PM	13446

Sample ID: AF (West Side)

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

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

Page 3 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall AG @ 4'

Project: Lobato GC D1

Collection Date: 5/23/2014 11:52:00 AM

Lab ID: 1405B54-004

Matrix: SOIL

Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2014 8:59:57 AM	13378
Surr: DNOP	105	57.9-140	%REC	1	5/30/2014 8:59:57 AM	13378
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2014 4:10:06 AM	13398
Surr: BFB	85.3	80-120	%REC	1	5/30/2014 4:10:06 AM	13398
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2014 4:10:06 AM	13398
Toluene	ND	0.048	mg/Kg	1	5/30/2014 4:10:06 AM	13398
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2014 4:10:06 AM	13398
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2014 4:10:06 AM	13398
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	5/30/2014 4:10:06 AM	13398
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 1:43:34 PM	13446

Sample ID: AG (West Side)

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

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 D.

Page 4 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lobato GC D1

Lab ID: 1405B54-005

Client Sample ID: West Wall AH @ 4'

Collection Date: 5/23/2014 12:00:00 PM

Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Q	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE (ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2014 9:31:24 AM	13378
Surr: DNOP	105	57.9-140	%REC	1	5/30/2014 9:31:24 AM	13378
EPA METHOD 8015D: GASOLINE RANG	SE .				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	5/30/2014 4:26:38 PM	13398
Surr: BFB	87.1	80-120	%REC	1	5/30/2014 4:26:38 PM	13398
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.046	mg/Kg	1	5/30/2014 4:26:38 PM	13398
Toluene	ND	0.046	mg/Kg	1	5/30/2014 4:26:38 PM	13398
Ethylbenzene	ND	0.046	mg/Kg	1	5/30/2014 4:26:38 PM	13398
Xylenes, Total	ND	0.093	mg/Kg	1	5/30/2014 4:26:38 PM	13398
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	5/30/2014 4:26:38 PM	13398
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 1:55:59 PM	13446

Sample ID: AH (West Side)

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

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

Page 5 of 10

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1405B54

Date Reported: 6/3/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

1405B54-006

ing Client Sample ID: West Wall AI @ 4'

Project: Lobato GC D1

Lab ID:

Matrix: SOIL

Collection Date: 5/23/2014 12:08:00 PM Received Date: 5/28/2014 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst:	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2014 10:02:53 AM	13378
Surr: DNOP	108	57.9-140	%REC	1	5/30/2014 10:02:53 AM	13378
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/30/2014 4:55:09 PM	13398
Surr: BFB	86.5	80-120	%REC	1	5/30/2014 4:55:09 PM	13398
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.050	mg/Kg	1	5/30/2014 4:55:09 PM	13398
Toluene	ND	0.050	mg/Kg	1	5/30/2014 4:55:09 PM	13398
Ethylbenzene	ND	0.050	mg/Kg	1	5/30/2014 4:55:09 PM	13398
Xylenes, Total	ND	0.099	mg/Kg	1	5/30/2014 4:55:09 PM	13398
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	5/30/2014 4:55:09 PM	13398
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	5/30/2014 2:08:24 PM	13446

Sample ID: AI (West Side)

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

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 Page 6 of 10
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1405B54

03-Jun-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-13446

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 13446

RunNo: 18971

Prep Date: 5/30/2014 Analysis Date: 5/30/2014

PQL

SeqNo: 548215

Units: mg/Kg

RPDLimit

Analyte Chloride

ND 1.5

SampType: LCS

HighLimit

%RPD

Sample ID LCS-13446

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Result

SPK value SPK Ref Val %REC LowLimit

RunNo: 18971

Prep Date: 5/30/2014

Batch ID: 13446 Analysis Date: 5/30/2014

SegNo: 548216

Units: mg/Kg

RPDLimit Qual

Analyte Chloride

90

HighLimit 110 %RPD

SPK value SPK Ref Val %REC 14 1.5 15.00 0 93.6

Oualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 14

1405B54 03-Jun-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Project: Lobato C	IC DI										
Sample ID MB-13378	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: PBS	Batch	ID: 133	378	F	RunNo: 1	8878					
Prep Date: 5/28/2014	Analysis D	ate: 5/2	28/2014	8	SeqNo: 5	45365	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	6.8		10.00		68.2	57.9	140				
Sample ID LCS-13378	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015D: Diese	el Range C	Organics		
Client ID: LCSS	Batch	ID: 133	378	F	RunNo: 1	8878					
Prep Date: 5/28/2014	Analysis D	ate: 5/2	28/2014	5	SeqNo: 5	45367	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	41	10	50.00	0	81.0	60.8	145				
Surr: DNOP	4.0		5.000		79.6	57.9	140				

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1405B54 03-Jun-14

Client: Project:

Blagg Engineering

Lobato GC D1

Sample ID	MB-13398

SampType: MBLK

TestCode: EPA Method 8015D: Gasoline Range

80

80

80

Client ID: PBS

Batch ID: 13398

RunNo: 18933

Prep Date:

5/28/2014 Analysis Date: 5/29/2014 SeqNo: 547049

Units: mg/Kg

RPDLimit Qual

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD 5.0 Gasoline Range Organics (GRO) ND 1000

Surr: BFB

880

87.8

120

Sample ID LCS-13398 Client ID: LCSS

SampType: LCS

TestCode: EPA Method 8015D: Gasoline Range RunNo: 18933

Prep Date: 5/28/2014

Batch ID: 13398 Analysis Date: 5/29/2014

SeqNo: 547050

Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 26 0

Gasoline Range Organics (GRO)

5.0 25.00 1000

103 71.7 95.6

134

120

Surr: BFB

Sample ID 1405B54-001AMS

SampType: MS

960

Result

Result

26

960

TestCode: EPA Method 8015D: Gasoline Range

Client ID: West Wall AD @ 4 Prep Date:

5/28/2014

Batch ID: 13398 Analysis Date: 5/30/2014

PQL

RunNo: 18933 SegNo: 547052

Units: mg/Kg

HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) Surr: BFB

4.9 24.53 981.4

SPK value SPK Ref Val %REC LowLimit 107

145

%RPD

Qual

Analyte

Sample ID 1405B54-001AMSD

SampType: MSD

TestCode: EPA Method 8015D: Gasoline Range

RunNo: 18933

97 5

120

Client ID: Prep Date:

West Wall AD @ 4' 5/28/2014

Batch ID: 13398 Analysis Date: 5/30/2014

PQL

SeqNo: 547053

Units: mg/Kg

120

Gasoline Range Organics (GRO)

Surr: BFB

26 4.9 24 51 940 980.4

SPK value SPK Ref Val %REC 106

95.8

LowLimit HighLimit 69.5 145

1.23

20 0 0

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level

Value above quantitation range E

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded H

Not Detected at the Reporting Limit

Sample pH greater than 2

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1405B54 03-Jun-14

Client: Blagg Engineering
Project: Lobato GC D1

0 1 10 100 10000	0 7			-						
Surr: 4-Bromofluorobenzene	1.1		1.000		106	80	120			
Xylenes, Total	ND	0.10								
Ethylbenzene	ND	0.050								
Toluene	ND	0.050								
Benzene	ND	0.050								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Prep Date: 5/28/2014	Analysis D	Date: 5/	29/2014	S	SeqNo: 5	47078	Units: mg/K	(g		
Client ID: PBS	Batcl	h ID: 13	398	F	RunNo: 1	8933				
Sample ID MB-13398	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									

Sample ID LCS-13398	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batch	n ID: 13	398	F	RunNo: 1	8933				
Prep Date: 5/28/2014	Analysis D	ate: 5/	29/2014	8	SeqNo: 5	47079	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	110	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		114	80	120			

Sample ID 1405B54-002AM	S SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: West Wall AE @	4' Batch	1D: 13	398	R	RunNo: 1	8933				
Prep Date: 5/28/2014	Analysis D	ate: 5/	30/2014	S	SeqNo: 5	47082	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9443	0	115	67.4	135			
Toluene	1.0	0.047	0.9443	0.007716	105	72.6	135			
Ethylbenzene	1.0	0.047	0.9443	0	107	69.4	143			
Xylenes, Total	2.9	0.094	2.833	0.01150	104	70.8	144			
Surr: 4-Bromofluorobenzene	1.0		0.9443		109	80	120			

Sample ID 1405B54-002AMS	D SampTyp	oe: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: West Wall AE @ 4	I' Batch I	D: 13	398	F	RunNo: 1	8933				
Prep Date: 5/28/2014	Analysis Dat	te: 5/	30/2014	8	SeqNo: 5	47083	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.047	0.9461	0	120	67.4	135	4.37	20	
Toluene	1.0	0.047	0.9461	0.007716	110	72.6	135	4.00	20	
Ethylbenzene	1.1	0.047	0.9461	0	111	69.4	143	4.05	20	
Xylenes, Total	3.0	0.095	2.838	0.01150	106	70.8	144	2.57	20	
Surr: 4-Bromofluorobenzene	1.0		0.9461		108	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

Page 10 of 10



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Numb	er: 1405B54		RcptNo:	1
Received by/date:	A 05/28/14		the state of the s		
Logged By: Lindsay Mar	-		0 311		
Completed By: Lindsay Mai		AM	Simbly Herry		
Reviewed By:	s os/28/14				
Chain of Custody					
1. Custody seals intact on sar	nple bottles?	Yes	No 🗌	Not Present	
2. Is Chain of Custody comple	ite?	Yes 🗸	No 🗌	Not Present	
3. How was the sample delive	red?	Courier			
<u>Log In</u>					
4. Was an attempt made to co	pol the samples?	Yes 🗸	No 🗆	NA \square	
5. Were all samples received	at a temperature of >0° C to 6.0°C	Yes 🗸	No 🗆	NA 🗆	
6. Sample(s) in proper contain	ner(s)?	Yes 🗸	No 🗌		
7. Sufficient sample volume for	or 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 heads	pace?	Yes	No 🗆	No VOA Vials ✓	
11. Were any sample containe	rs received broken?	Yes	No 🗸	#	
		_		# of preserved bottles checked	
12. Does paperwork match both		Yes 🗸	No 📙	for pH:	>12 unless noted)
(Note discrepancies on cha 13, Are matrices correctly ident		Yes 🗸	No 🗆	Adjusted?	TE amood Holody
14. Is it clear what analyses we		Yes ✓	No 🗌		
15. Were all holding times able		Yes 🗹	No 🗆	Checked by:	
(If no, notify customer for a	uthorization.)		Ĺ		
0 111 11 11 11					
Special Handling (if appl					
16. Was client notified of all dis	crepancles with this order?	Yes	No L	NA 🗹	1
Person Notified:	Date:				
By Whom:	Via:	eMail	Phone Fax	In Person	
Regarding:	- many to the same				
Client Instructions:		<u> </u>		·	
17. Additional remarks:					
18. Cooler Information Cooler No Temp ℃ 1 1.0	Condition Seal Intact Seal No Good Yes	Seal Date	Signed By		

HALL CHYLKONMENIAL Blagg Engineering, Inc. Client: **ANALYSIS LABORATORY** ☐ Rush Standard Project Name: **BP** America www.hallenvironmental.com Lobato GC D1 Mailing Address: 4901 Hawkins NE - Albuquerque, NM 87109 P.O. Box 87 Project #: Bloomfield, NM 87413 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request (505)320-1183 Phone #: Project Manager: email or Fax#: Jeff Blagg QA/QC Package: 8015B (GRO / DRO) **▼** Standard ☐ Level 4 (Full Validation) Jeff Blagg □ Other Sampler: Î ☑ Yes □ No ☐ EDD (Type) _____ On Ice: Ь Sample Temperature: Air Bubbles (Y 1.72 BTEX (8021) Preservative Chloride Container Sample Request ID HEAL No. Date Time Matrix Type and # Type TPH West Wall AD @ 4' 11:30 Soil 40z x 1 X X 05/23/2014 cool X West Wall AE @ 4' 11:37 Soil X X 05/23/2014 40z x 1 cool X West Wall AF @ 4' 05/23/2014 11:45 Soil 40z x 1 cool X X X West Wall AG @ 4' 05/23/2014 11:52 Soil 40z x 1 cool Х X X 12:00 Soil West Wall AH @ 4' 05/23/2014 402 x 1 cool Х X X West Wall Al @ 4' 05/23/2014 12:08 Soil 402 x 1 cool X X X -04 Relinquished by: Received by: Date Time Remarks: Bill Blagg Time: BP Contact: Jeff Peace Please copy results to: peace.jeffrey@bp.com Date Relinquished by: Received by: Time Time: 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 ReportLab Order **1406956**

Date Reported: 6/24/2014

Hall Environmental Analysis Laboratory, Inc.

 CLIENT:
 Blagg Engineering
 Client Sample ID: 3-pt @ 3.5' (225', S13W)

 Project:
 Lobato GC D # 1
 Collection Date: 6/19/2014 1:00:00 PM

 Lab ID:
 1406956-001
 Matrix: MEOH (SOIL)
 Received Date: 6/20/2014 8:00:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/20/2014 10:41:10 AM	13803
Surr: DNOP	104	57.9-140	%REC	1	6/20/2014 10:41:10 AM	13803
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	3.3	mg/Kg	1	6/20/2014 10:25:09 AM	R19405
Surr: BFB	98.7	80-120	%REC	1	6/20/2014 10:25:09 AM	R19405
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.033	mg/Kg	1	6/20/2014 10:25:09 AM	R19405
Toluene	ND	0.033	mg/Kg	1	6/20/2014 10:25:09 AM	R19405
Ethylbenzene	ND	0.033	mg/Kg	1	6/20/2014 10:25:09 AM	R19405
Xylenes, Total	ND	0.067	mg/Kg	1	6/20/2014 10:25:09 AM	R19405
Surr: 4-Bromofluorobenzene	113	80-120	%REC	1	6/20/2014 10:25:09 AM	R19405
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	6/20/2014 12:00:36 PM	13810

Sample ID: 7

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

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 Page 1 of 5
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406956

24-Jun-14

Client:

Blagg Engineering

Project:

Lobato GC D # 1

Sample ID MB-13810 SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 13810

PQL

RunNo: 19436

Prep Date: 6/20/2014 Analysis Date: 6/20/2014

SeqNo: 562237

Units: mg/Kg

HighLimit

RPDLimit

Qual

Analyte Chloride

Result ND

Sample ID LCS-13810

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 13810

RunNo: 19436

Prep Date: 6/20/2014 Analysis Date: 6/20/2014

SeqNo: 562238

Units: mg/Kg

%RPD

PQL

14

%RPD

Qual

Analyte

Chloride

Result

SPK value SPK Ref Val %REC 15.00

SPK value SPK Ref Val %REC LowLimit

96.1

110

RPDLimit

1.5

LowLimit

HighLimit

Qualifiers:

Analyte detected below quantitation limits

RPD outside accepted recovery limits R

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

0 RSD is greater than RSDlimit

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH greater than 2.

RL

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406956

Qual

Qual

RPDLimit

RPDLimit

24-Jun-14

Client: Project: Blagg Engineering Lobato GC D # 1

Sample ID MB-13803 Client ID: **PBS**

SampType: MBLK

TestCode: EPA Method 8015D: Diesel Range Organics RunNo: 19402

SeqNo: 561328

Prep Date: 6/20/2014 Analysis Date: 6/20/2014 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

ND 10 Diesel Range Organics (DRO) Surr: DNOP 8.3 10.00 83.4 57.9 140

Sample ID LCS-13803 Client ID: LCSS

Prep Date:

SampType: LCS

Batch ID: 13803

TestCode: EPA Method 8015D: Diesel Range Organics

Batch ID: 13803 Analysis Date: 6/20/2014 6/20/2014

RunNo: 19402 SeqNo: 561594

Units: mg/Kg

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Diesel Range Organics (DRO) 50 10 50.00 0 100 60.8 145 Surr: DNOP 3.4 5.000 68.9 57.9 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2. P
- Reporting Detection Limit

Page 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406956

24-Jun-14

Client:

Blagg Engineering

Project:

Lobato GC D # 1

Sample ID MB-13793 MK	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	ID: R1	9405	R	tunNo: 1	9405				
Prep Date:	Analysis D	nalysis Date: 6/20/2014 SeqNo: 561885 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	960		1000		96.1	80	120			

Sample ID LCS-13793 MK	SampT	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batch	ID: R1	9405	F	RunNo: 1	9405				
Prep Date:	Analysis D	ate: 6/	20/2014	S	SeqNo: 5	61886	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	89.1	71.7	134			
Surr: BFB	950		1000		95.2	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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

0.93

2.9

1.1

0.050

0.10

1.000

3.000

1.000

WO#: 1406956

24-Jun-14

Client:

Blagg Engineering

Project:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

Lobato GC D # 1

Sample ID MB-13793 MK	SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batc	h ID: R1	9405	F	RunNo: 1	9405				
Prep Date:	Analysis [Date: 6/	20/2014	5	SeqNo: 5	61907	Units: mg/k	(g		
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		114	80	120			
Sample ID LCS-13793 MK	Samp	Гуре: LC	S	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R1	9405	F	RunNo: 1	9405				
Prep Date:	Analysis [Date: 6/	20/2014	5	SeqNo: 5	61908	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	95.6	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			

0

0

92.5

97.8

113

80

80

80

120

120

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

Page 5 of 5



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: พามาง.hallenvironmental.com

Sample Log-In Check List

	THE RESERVE THE PARTY OF THE PA	-			District to the last	NAME AND ADDRESS OF THE OWNER, WHEN PERSONS NAMED IN	
Client Name: BLAGG Wo	ork Order Number:	14069	56			RcptNo:	1
Received by/date: AT 06 7	oliu	· ·					
Logged By: Lindsay Mangin 6/20/	2014 8:00:00 AM			Smakey Alex	950		
Completed By: Lindsay Mangin 6/20/	2014 8:24:11 AM			Sincebuy Hon	90		
Reviewed By:	120/14						
Chain of Custody	70917	•	A GARAGE			x x 20	
1. Custody seals intact on sample bottles?		Yes	1,1	No		Not Present ✓	
2. Is Chain of Custody complete?		Yes	V	No .		Not Present	*
3. How was the sample delivered?		Cour	er				
Log In							
4. Was an attempt made to cool the samples?		Yes	V	No :	.!	NA [!]	
5. Were all samples received at a temperature of >0	0° C to 6.0°C	Yes	Ø	No	ì	NA :	
6. Sample(s) in proper container(s)?		Yes	Y	No :	:		
7. Sufficient sample volume for indicated test(s)?		Yes	V	No			
8. Are samples (except VOA and ONG) properly pre	served?	Yes	V	No .			
9. Was preservative added to bottles?		Yes	1	No V	•	NA	
10.VOA vials have zero headspace?		Yes	[_]	No -	:	No VOA Vials	
11. Were any sample containers received broken?		Yes		No N			2 440
						# of preserved bottles checked	
12. Does paperwork match bottle labels?	1	Yes	~	No	:	for pH:	or >12 unless noted)
(Note discrepancies on chain of custody) 13. Are matrices correctly identified on Chain of Custo	ndv?	Yes	.v:	No	:	Adjusted?	or 12 unicas noteu)
14. Is it clear what analyses were requested?	ouy:	Yes	V:	No			
15. Were all holding times able to be met?		Yes	~	No	. i	Checked by:	
(If no, notify customer for authorization.)					*		
Special Handling (if applicable)							
16. Was client notified of all discrepancies with this or	der?	Yes		No	Ī	NA 🗸	
Person Notified:	Date:	***************************************			Mana"		
By Whom:	Via:	; eMa	ul , .	Phone F	ax	In Person	
Regarding:				CHARLES CO. L. LANGE CO. CO. CO.			
Client Instructions:				PLANTAGE AND REAL RESIDENCE OF THE SECTION ASSESSMENT ASSESSMENT OF THE SECTION ASSESSMENT OF TH	a later led less on a l	denima a sa sa fari forda do da Afrida como es a servización de constituira-	
17. Additional remarks:	(A)			K (K 9			
18. Cooler Information							
Cooler No Temp °C Condition Seal Int	act Seal No 5	Seal Da	ate	Signed By			
1 1.8 Good Yes	and the state of t						

C	hain-c	of-Cus	stody Record	CD CD	IIIIe.					Н	IΛ		F	N	/TE	20	NI	ME	NT	ГАІ	
Client:	BLAG	G ENGR	. / BP AMERICA	Standard	Rush	Same Day			_									RA			
*				Project Name:													.com			May 18 4	
Mailing Ad	ddress:	P.O. BO	X 87	L	OBATO GC	D#1		490	11 H									' 3 71 09	4		
			FIELD, NM 87413	Project #:						5-34							-410				
Dhana #			32-1199						1. 50			- 2550	200		Red		9.00 4				
Phone #: email or F	ax#:	(303) 0.	32-1133	Project Manag	ier:				カン												
QA/QC Pad	ckage:		Level 4 (Full Validation)		NELSON VE	ELEZ	(8021B)		TARRET			(5		04,504	PCB's			r - 300.1)			a
Accreditat			Level 4 (1 dil Validation)	Sampler:	NELSON VE	ELEZ TOU	(80)	Sas c				SIM		J ₂ ,P	8082			wate	-		mpl
□ NELAP		☐ Other				o⊒ No	1) Hd	100	18.1	04.1	8270SIMS)		3,N(-		F	0.0	1		e sa
□ EDD (T				Sample Temp	COLOR COLOR CONTROL OF THE REAL PROPERTY AND ADDRESS OF THE PARTY OF T	7		E + T	GRO	pd 4	od 5	or 8	Metals	N,	ides	4)	0^-	1-30		e l	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO.	BTEX +-MITB	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310	RCRA 8 Me	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		ap	3 pt. composite sample
6/19/14	1300	SOIL	3-pt.@3.5'	4 oz 1	Cool	-001	٧		٧									٧	\neg		V
			(225', S13W)						\neg	\neg									\dashv	\neg	\neg
									\neg	寸								\neg	_		寸
									\neg	\neg									\neg	十	\dashv
									_	_								\dashv	+	+	-
									\dashv	+	\dashv								+	+	\dashv
									\dashv	\dashv	\dashv	-							\dashv	\dashv	\dashv
									\dashv		\dashv							\dashv	\dashv	\dashv	\dashv
								$\overline{}$	\dashv	-	\dashv	-						_	+	\dashv	-
									-	\dashv	\dashv	_		_	_	-		\dashv	\dashv	\dashv	\dashv
									-	-									+	\dashv	\dashv
	-			<u> </u>					-									-	-	\dashv	\dashv
Date:	Tíme:	Relinquist	ped hv:	Received by:	,	Date Time	Pon	narks													
/19/14	1556	Th	lu J	Must	elikele	6/19/14/550		end i		ce to			r								
Date:	Time: 1810	Relinquish	at Dalle	Received by: Date Time Olo/Ze/14				800)		P.0	O. Bo	ox 87	7	ng, I 1 874						
1.11		ary, samples	submitted to Hall Environmental may be s	ubcontracted to other	popular accredited laboratories. This serves as notice of					y sub-	contra	acted	data v	vill be	clearly	notat	ed on	the ana	alytical	repor	t.

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3PC-SW @ 3'-3.5' - (61',S16W)

Collection Date: 6/24/2014 12:25:00 PM

Lobato GC D #1 **Project:** Lab ID: 1406B29-001 Matrix: SOIL Received Date: 6/25/2014 8:10:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/26/2014 6:37:33 PM	13880
Surr: DNOP	84.7	57.9-140	%REC	1	6/26/2014 6:37:33 PM	13880
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/26/2014 2:45:55 PM	13887
Surr: BFB	96.2	80-120	%REC	1	6/26/2014 2:45:55 PM	13887
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	6/26/2014 2:45:55 PM	13887
Toluene	ND	0.049	mg/Kg	1	6/26/2014 2:45:55 PM	13887
Ethylbenzene	ND	0.049	mg/Kg	1	6/26/2014 2:45:55 PM	13887
Xylenes, Total	ND	0.098	mg/Kg	1	6/26/2014 2:45:55 PM	13887
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	6/26/2014 2:45:55 PM	13887
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	6/27/2014 11:19:31 AM	13936

Sample ID: 8

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

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
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 1 of 6
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3PC-SW @ 3' - (222',S4W)

Collection Date: 6/24/2014 12:35:00 PM

Project: Lobato GC D #1 Lab ID: 1406B29-002

Matrix: SOIL

Received Date: 6/25/2014 8:10:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE O	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	44	9.9	mg/Kg	1	6/26/2014 7:08:01 PM	13880
Surr: DNOP	97.5	57.9-140	%REC	1	6/26/2014 7:08:01 PM	13880
EPA METHOD 8015D: GASOLINE RANG	E				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/26/2014 4:11:58 PM	13887
Surr: BFB	97.7	80-120	%REC	1	6/26/2014 4:11:58 PM	13887
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	6/26/2014 4:11:58 PM	13887
Toluene	ND	0.048	mg/Kg	1	6/26/2014 4:11:58 PM	13887
Ethylbenzene	ND	0.048	mg/Kg	1	6/26/2014 4:11:58 PM	13887
Xylenes, Total	ND	0.096	mg/Kg	1	6/26/2014 4:11:58 PM	13887
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	6/26/2014 4:11:58 PM	13887
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	6/27/2014 11:56:45 AM	13936

Sample ID: 9

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit

Page 2 of 6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B29

01-Jul-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

Sample ID MB-13936

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 13936

RunNo: 19582

HighLimit

Prep Date:

6/27/2014

Analysis Date: 6/27/2014

SPK value SPK Ref Val %REC LowLimit

0

SeqNo: 567620

Units: mg/Kg

%RPD **RPDLimit**

Qual

Analyte Chloride

Result PQL

ND 1.5

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Sample ID LCS-13936

SampType: LCS Batch ID: 13936

RunNo: 19582

Prep Date: 6/27/2014

14

Analysis Date: 6/27/2014

SeqNo: 567621

Units: mg/Kg

HighLimit

Analyte

PQL

SPK value SPK Ref Val

%REC 92.6

90

%RPD

RPDLimit

Qual

Chloride

Result

1.5 15.00

LowLimit

110

Qualifiers:

S

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

Value above quantitation range Е

Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank В

Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

Reporting Detection Limit

Page 3 of 6

P Sample pH greater than 2.

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B29 01-Jul-14

Client:

Blagg Engineering

Project:	Lobato GC D #1
Sample ID MB-138	80 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13880 RunNo: 19466
Prep Date: 6/25/2	014 Analysis Date: 6/25/2014 SeqNo: 563896 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (
Surr: DNOP	8.4 10.00 84.2 57.9 140
Sample ID LCS-13	880 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13880 RunNo: 19466
Prep Date: 6/25/2	O14 Analysis Date: 6/25/2014 SeqNo: 563897 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (
Surr: DNOP	4.1 5.000 82.5 57.9 140
Sample ID MB-139	11 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13911 RunNo: 19522
Prep Date: 6/26/2	014 Analysis Date: 6/26/2014 SeqNo: 564983 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	7.1 10.00 70.6 57.9 140
Sample ID LCS-13	911 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13911 RunNo: 19522
Prep Date: 6/26/2	O14 Analysis Date: 6/26/2014 SeqNo: 564984 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.4 5.000 67.1 57.9 140
Sample ID MB-139	13 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13913 RunNo: 19522
Prep Date: 6/26/2	O14 Analysis Date: 6/26/2014 SeqNo: 565609 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	6.6 10.00 66.4 57.9 140
Sample ID LCS-13	913 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13913 RunNo: 19522
Prep Date: 6/26/2	014 Analysis Date: 6/26/2014 SeqNo: 565610 Units: %REC
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.1 5.000 61.7 57.9 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406B29

01-Jul-14

Client:

Blagg Engineering

Project:

Lobato GC D #1

Sample ID MB-13887	SampT	уре: МЕ	BLK	Test	Code: El	PA Method	8015D: Gaso	line Rang	е			
Client ID: PBS	Batch	ID: 138	387	R	unNo: 1	9523						
Prep Date: 6/25/2014	Analysis D	ate: 6/2	26/2014	S	eqNo: 5	65490	00 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	960		1000		95.6	80	120					

Sample ID LCS-13887	SampT	ype: LC	S	Test	Code: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: LCSS	Batch	ID: 13 8	887	R	tunNo: 1	9523					
Prep Date: 6/25/2014	Analysis D	ate: 6/	26/2014	S	eqNo: 5	65492	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	1100		1000		105	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

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Hall Environmental Analysis Laboratory, Inc.

at Analysis Laboratory, Inc.

Client: Blagg Engineering
Project: Lobato GC D #1

Sample ID MB-13887	SampT	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch	n ID: 13	887	R	RunNo: 1	9523				
Prep Date: 6/25/2014	Analysis D	ate: 6/	26/2014	SeqNo: 565525 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		108	80	120			

Sample ID LCS-13887	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	ID: 13 8	887	R	RunNo: 1	9523				
Prep Date: 6/25/2014	Analysis D	ate: 6/	26/2014	S	SeqNo: 5	65526	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.050	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	102	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		107	80	120			

Sample ID 1406B29-001AM	S SampT	ype: MS	3	Tes	tCode: El	PA Method	8021B: Vola	tiles				
Client ID: 3PC-SW @ 3'-3.	5' - (Batch	n ID: 13	887	RunNo: 19523								
Prep Date: 6/25/2014	Prep Date: 6/25/2014 Analysis Date: 6/26/2014						SeqNo: 565528 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.1	0.049	0.9862	0	107	77.4	142					
Toluene	1.1	0.049	0.9862	0.007175	107	77	132					
Ethylbenzene	1.1	0.049	0.9862	0	110	77.6	134					
Xylenes, Total	3.3	0.099	2.959	0.01190	110	77.4	132					
Surr: 4-Bromofluorobenzene	1.1		0.9862		107	80	120					

Sample ID 1406B29-001AMSI	SampType	MSD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: 3PC-SW @ 3'-3.5'	- (Batch ID:	13887	F	RunNo: 1	9523				
Prep Date: 6/25/2014	Analysis Date:	6/26/2014	5	SeqNo: 5	65529	Units: mg/k	(g		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1 0.	0.9872	0	109	77.4	142	2.78	20	
Toluene	1.1 0.	0.9872	0.007175	110	77	132	2.17	20	
Ethylbenzene	1.1 0.	0.9872	0	113	77.6	134	2.39	20	
Xylenes, Total	3.3 0.	099 2.962	0.01190	112	77.4	132	2.17	20	
Surr: 4-Bromofluorobenzene	1.1	0.9872		107	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

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WO#:

1406B29

01-Jul-14



4901 Hawkins NE Albuquerque, NM 87109 EL: 505-345-3975 FAX: 505-345-4107

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG Work Order Number: 1406B29 RcptNo: 1 06/25/14 Received by/date: Celin Som Logged By: Celina Sessa 6/25/2014 8:10:00 AM Celin Som Completed By: 6/25/2014 9:19:59 AM Celina Sessa Reviewed By: Chain of Custody Not Present V Yes 1. Custody seals intact on sample bottles? Yes 🗸 No 🗌 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗌 NA Yes 🗸 4. Was an attempt made to cool the samples? NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C Yes V 6. Sample(s) in proper container(s)? No 🗌 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No _ 8, Are samples (except VOA and ONG) properly preserved? NA 🗌 No V 9. Was preservative added to bottles? Yes No 🗌 No VOA Vials 10. VOA vials have zero headspace? Yes No V Yes 11. Were any sample containers received broken? # of preserved bottles checked Yes V for pH: No _ 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 13. Are matrices correctly identified on Chain of Custody? No 🗌 14. Is it clear what analyses were requested? Yes 🗸 No _ Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Seal Intact | Seal No Seal Date Condition 2.5 Good Yes

CI	naın-c	ot-Cus	tody Record	Tulli-Alouliu I	IIIIG.					H	A	LL	E	NV	/IF	20	NI	ME	N	ГА	L
Client:	BLAG	G ENGR.	/ BP AMERICA	✓ Standard	Rush _														\T		
				Project Name:													.com				
Mailing Ad	ldress:	P.O. BO	K 87	L	OBATO GC	0#1		490	01 H									710	9		
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50)5-34	45-3	975	-	ax	505-	345	-410	7			
Phone #:		(505) 63	2-1199									I	Anal	ysis	Rec	ques	t				
email or F	ax#:			Project Manag	er:				nv	-				4)				.1)			
QA/QC Pad Standa			Level 4 (Full Validation)		NELSON VE	LEZ	3-(8021B)	+ TPH (Gas only)	(OWA)			15)		PO4,SO	PCB's			ter - 300.1}			a
Accreditati	ion:			Sampler:	NELSON VE	LEZ grv	, <u>®</u>	(Gas	RO/	1	1)	SIN		102,	8082			/ wal			mp
□ NELAP		□ Other		On lee:	X Yes	⊒ No	1	TPH	2	418	504	8270	,,	03,1	-		Æ	300.0 / water			e sa
□ EDD (T	ype)			Sample Tempe	erature Zul		ţ		(GR(pol	pou	or	stals	Z,N	cide	(A)	i-VC	1 1		e	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1406 B 29	BTEX +-WITE	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil		Grab sample	3 pt. composite sample
6/24/14	1225	SOIL	3PC-SW @ 3'-3.5 ' -	4 oz 1	Cool	-001	٧		٧							-		٧			٧
			(61',S16W)										1								
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6/24/14	1235	SOIL	3PC-SW @ 3' -	4 oz 1	Cool	-002	٧		V									V	\forall		٧
			(222',S4W)																		
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Date: 6/24/14	Time:	Relinquishe	ed by:	Received by:		Date Time	Ren	narks	5:										1		
6/24/14	1556	9/1,	la VI	mustre	Whete	4/24/m 1556	S	end i	nvoi	ce to		200	Enoi-	100"	ng, i	ne					
1 1		Relinquishe	ed by:	Received by:	1	Date Time					P.	O. B	ox 87	7							
6/24/14	If necessa	ry, samples su	Nestre Weels ubmitted to Hall Environmental may be s	ubcontracted to other	accredited laboratories	5 12 0810 s. This serves as notice of	this p	ossibili	ty. Ar	ny sub					1 874 clearly		ed on	the an	alvtica	l repor	rt.

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 7/7/2014

CLIENT: Blagg Engineering

Client Sample ID: E. Wall AF 3-pt Comp.

Project: Lobato GC D1

Collection Date: 6/27/2014 8:40:00 AM

Lab ID: 1406D41-001 Matrix: SOIL Received Date: 6/28/2014 6:45:00 AM

Analyses	Result	RL (Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/30/2014 3:12:12 PM	13968
Surr: DNOP	68.6	57.9-140	%REC	1	6/30/2014 3:12:12 PM	13968
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/1/2014 1:15:07 PM	13966
Surr: BFB	125	80-120	S %REC	1	7/1/2014 1:15:07 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.049	mg/Kg	1	7/1/2014 1:15:07 PM	13966
Toluene	ND	0.049	mg/Kg	1	7/1/2014 1:15:07 PM	13966
Ethylbenzene	ND	0.049	mg/Kg	1	7/1/2014 1:15:07 PM	13966
Xylenes, Total	ND	0.098	mg/Kg	1	7/1/2014 1:15:07 PM	13966
Surr: 4-Bromofluorobenzene	117	80-120	%REC	1	7/1/2014 1:15:07 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 11:55:13 AM	14002

Sample ID: AF (East Side)

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

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

Page 1 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project:

Lab ID:

Lobato GC D1

1406D41-002 Matrix: SOIL Client Sample ID: E. Wall AG 3-pt Comp. Collection Date: 6/27/2014 8:50:00 AM

Received Date: 6/28/2014 6:45:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/30/2014 4:45:00 PM	13968
Surr: DNOP	75.3	57.9-140	%REC	1	6/30/2014 4:45:00 PM	13968
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	7/1/2014 2:46:11 PM	13966
Surr: BFB	96.0	80-120	%REC	1	7/1/2014 2:46:11 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.050	mg/Kg	1	7/1/2014 2:46:11 PM	13966
Toluene	ND	0.050	mg/Kg	1	7/1/2014 2:46:11 PM	13966
Ethylbenzene	ND	0.050	mg/Kg	1	7/1/2014 2:46:11 PM	13966
Xylenes, Total	ND	0.10	mg/Kg	1	7/1/2014 2:46:11 PM	13966
Surr: 4-Bromofluorobenzene	105	80-120	%REC	1	7/1/2014 2:46:11 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 12:07:38 PM	14002

Sample ID: AG (East Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 9

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406D41

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: Lobato GC D1

Lab ID: 1406D41-003

Client Sample ID: E. Wall AH 3-pt Comp.

Collection Date: 6/27/2014 9:00:00 AM

Received Date: 6/28/2014 6:45:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/30/2014 5:15:50 PM	13968
Surr: DNOP	78.4	57.9-140	%REC	1	6/30/2014 5:15:50 PM	13968
EPA METHOD 8015D: GASOLINE RAM	IGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	7/1/2014 4:12:02 PM	13966
Surr: BFB	97.1	80-120	%REC	1	7/1/2014 4:12:02 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.049	mg/Kg	1	7/1/2014 4:12:02 PM	13966
Toluene	ND	0.049	mg/Kg	1	7/1/2014 4:12:02 PM	13966
Ethylbenzene	ND	0.049	mg/Kg	1	7/1/2014 4:12:02 PM	13966
Xylenes, Total	ND	0.098	mg/Kg	1	7/1/2014 4:12:02 PM	13966
Surr: 4-Bromofluorobenzene	107	80-120	%REC	1	7/1/2014 4:12:02 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 12:20:03 PM	14002

Matrix: SOIL

Sample ID: AH (East Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded H
- ND Not Detected at the Reporting Limit

Page 3 of 9

- Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1406D41

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: E. Wall AI 3-pt Comp.

Project: Lobato GC D1

Collection Date: 6/27/2014 9:10:00 AM

Lab ID: 1406D41-004 Matrix: SOIL

Received Date: 6/28/2014 6:45:00 AM

Analyses	Result RL Qual Units		DF	Date Analyzed	Batch	
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	43	10	mg/Kg	1	6/30/2014 5:46:56 PM	13968
Surr: DNOP	79.7	57.9-140	%REC	1	6/30/2014 5:46:56 PM	13968
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/1/2014 4:40:46 PM	13966
Surr: BFB	97.1	80-120	%REC	1	7/1/2014 4:40:46 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	7/1/2014 4:40:46 PM	13966
Toluene	ND	0.048	mg/Kg	1	7/1/2014 4:40:46 PM	13966
Ethylbenzene	ND	0.048	mg/Kg	1	7/1/2014 4:40:46 PM	13966
Xylenes, Total	ND	0.096	mg/Kg	1	7/1/2014 4:40:46 PM	13966
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	7/1/2014 4:40:46 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 12:32:28 PM	14002

Sample ID: AI (East Side)

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: Lobato GC D1

Lab ID:

1406D41-005 Matrix: SOIL Client Sample ID: E. Wall AJ 3-pt Comp. Collection Date: 6/27/2014 9:20:00 AM Received Date: 6/28/2014 6:45:00 AM

Analyses	Result RL Qual Units			DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	49	10	mg/Kg	1	6/30/2014 6:17:42 PM	13968
Surr: DNOP	83.6	57.9-140	%REC	1	6/30/2014 6:17:42 PM	13968
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/1/2014 5:09:26 PM	13966
Surr: BFB	98.2	80-120	%REC	1	7/1/2014 5:09:26 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	7/1/2014 5:09:26 PM	13966
Toluene	ND	0.048	mg/Kg	1	7/1/2014 5:09:26 PM	13966
Ethylbenzene	ND	0.048	mg/Kg	1	7/1/2014 5:09:26 PM	13966
Xylenes, Total	ND	0.096	mg/Kg	1	7/1/2014 5:09:26 PM	13966
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	7/1/2014 5:09:26 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 12:44:52 PM	14002

Sample ID: AJ (East Side)

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

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
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406D41 07-Jul-14

Client:

Blagg Engineering

Project:

Lobato GC D1

Sample ID MB-14002

Prep Date: 7/1/2014

Sample ID LCS-14002

LCSS

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 14002 Analysis Date: 7/1/2014

PQL

1.5

RunNo: 19637 SeqNo: 569535

TestCode: EPA Method 300.0: Anions

Units: mg/Kg

Qual

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Chloride

ND

Batch ID: 14002

PQL

SampType: LCS

RunNo: 19637

Prep Date: 7/1/2014

Analysis Date: 7/1/2014

SeqNo: 569536

Units: mg/Kg

Analyte

Client ID:

Result

SPK value SPK Ref Val

90

%RPD **RPDLimit** Qual

%REC 92.4

110

Chloride

14

1.5

15.00

HighLimit

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit ND

P Sample pH greater than 2. RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406D41

07-Jul-14

Client: Project: Blagg Engineering

Lobato GC D1

Sample ID MB-	13968	SampT	ype: ME	BLK	Test	TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: PBS		Batch	ID: 139	968	R	tunNo: 1								
Prep Date: 6/3	0/2014	Analysis D	ate: 6/3	30/2014	S	eqNo: 5	67719	Units: mg/K	Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organio	cs (DRO)	ND	10											
Surr: DNOP		7.2		10.00		72.1	57.9	140						

Sample ID LCS-13968	SampTy	SampType: LCS				TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID: LCSS	Batch	Batch ID: 13968				9585							
Prep Date: 6/30/2014	Analysis Da	ite: 6/	30/2014	S	SeqNo: 5	67720	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	68.6	130						
Surr: DNOP	3.4		5.000		68.8	57.9	140						

Sample ID	1406D41-001AMS	MS SampType: MS TestCode: EPA Method 8015D: Diesel Range Organics											
Client ID:	E. Wall AF 3-pt Com Batch ID: 13968 RunNo: 19585												
Prep Date:	6/30/2014	Analysis Date: 6/30/2014				SeqNo: 5	67721	Units: mg/Kg					
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range (Organics (DRO)	49	10	50.30	0	98.2	40.1	152					
Surr: DNOP		3.6		5.030		71.4	57.9	140					

Sample ID 1406D41-001AMS	SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics											
Client ID: E. Wall AF 3-pt C	om Batch	ID: 13	968	R	RunNo: 19585							
Prep Date: 6/30/2014	Analysis D	ate: 6/	30/2014	S	SeqNo: 5	67722	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Diesel Range Organics (DRO)	56	10	49.95	0	111	40.1	152	11.7	32.1			
Surr: DNOP	3.9		4.995		78.8	57.9	140	0	0			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Page 7 of 9
- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

1000

980.4

WO#:

1406D41 07-Jul-14

Client:

Blagg Engineering

Project:	Lobato G	C D1										
Sample ID	MB-13966	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	le		
Client ID:	PBS	Batcl	n ID: 13	966	F	RunNo: 1	9616					
Prep Date:	6/30/2014	Analysis D)ate: 7/	1/2014	5	SeqNo: 5	68837	⟨g				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	ND	5.0									
Surr: BFB		970		1000		97.4	80	120				
Sample ID	LCS-13966	S-13966 SampType: LCS TestCode: EPA Method 8015D: Gasoline								e		
Client ID:	LCSS	Batch	n ID: 13	966	F	RunNo: 1	9616					
Prep Date:	6/30/2014	Analysis D	ate: 7/	1/2014	5	SeqNo: 5	68838	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	29	5.0	25.00	0	114	71.7	134				
Surr: BFB		1100		1000		106	80	120				
Sample ID	1406D41-001AMS	SampT	ype: MS	3	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е		
Client ID:	E. Wall AF 3-pt Co	om Batch	n ID: 13	966	RunNo: 19616							
Prep Date:	6/30/2014	Analysis D	ate: 7/	1/2014	5	SeqNo: 5	68844	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	32	4.9	24.53	0	130	71.8	132				
Surr: BFB		1200		981.4		118	80	120				
Sample ID	1406D41-001AMS	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е		
Client ID:	E. Wall AF 3-pt Co	om Batch	n ID: 13	966	RunNo: 19616							
Prep Date:	6/30/2014	Analysis D	ate: 7/	1/2014	8	SeqNo: 5	68845	Units: mg/k	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	30	4.9	24.51	0	121	71.8	132	7.31	20		

Qualifiers:

Surr: BFB

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit O
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

104

80

120

- P Sample pH greater than 2.
- Reporting Detection Limit

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0

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406D41

07-Jul-14

Client:

Blagg Engineering

Project:

Lobato GC D1

		CDI									
Sample ID	MB-13966	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	PBS	Batch	1D: 139	966	F	RunNo: 1	9616				
Prep Date:	6/30/2014	Analysis D	ate: 7/	1/2014	5	SeqNo: 5	68870	Units: mg/k	(g		
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-Bron	nofluorobenzene	1.1		1.000		110	80	120			
Sample ID	LCS-13966	SampType: LCS TestCode: EPA						8021B: Vola	tiles		
Client ID:	LCSS	Batch	1D: 139	966	RunNo: 19616						
Prep Date:	6/30/2014	Analysis D	ate: 7/	1/2014	5	SeqNo: 5	68871	Units: mg/k	(g		
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		1.0	0.050	1.000	0	104	80	120			
Ethylbenzene		1.0	0.050	1.000	0	105	80	120			
Xylenes, Total		3.1	0.10	3.000	0	103	80	120			
Surr: 4-Bron	nofluorobenzene	1.2		1.000		118	80	120			
Sample ID 1406D41-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles											
Sample ID	1406D41-002AMS	SampT	ype: MS	5	Tes	tCode: El	PA Method	8021B: Vola	tiles		
	1406D41-002AMS E. Wall AG 3-pt Co		ype: MS 1D: 139			tCode: El RunNo: 1 !		8021B: Vola	tiles		
Client ID:			1D: 139	966	F		9616	8021B: Vola Units: mg/F			
Client ID:	E. Wall AG 3-pt Co	o Batch	1D: 139	966 1/2014	F	RunNo: 19	9616			RPDLimit	Qual
Client ID: Prep Date:	E. Wall AG 3-pt Co	o Batch Analysis D	n ID: 139 Pate: 7/	966 1/2014	F	RunNo: 19	9616 68878	Units: mg/F	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte	E. Wall AG 3-pt Co	o Batch Analysis D Result	n ID: 13 9 Pate: 7 /	966 1/2014 SPK value	SPK Ref Val	RunNo: 19 SeqNo: 50 %REC	9616 68878 LowLimit	Units: mg/F	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene	E. Wall AG 3-pt Co	Analysis D Result 1.1	PQL 0.050	966 1/2014 SPK value 0.9940	SPK Ref Val	RunNo: 19 SeqNo: 50 %REC 111	9616 68878 LowLimit 77.4	Units: mg/F HighLimit 142	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	E. Wall AG 3-pt Co	Analysis D Result 1.1 1.1	PQL 0.050 0.050	966 1/2014 SPK value 0.9940 0.9940	SPK Ref Val 0 0.007807	RunNo: 19 SeqNo: 56 **REC 111 108	9616 68878 LowLimit 77.4 77	Units: mg/F HighLimit 142 132	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	E. Wall AG 3-pt Co	Analysis D Result 1.1 1.1 1.1	PQL 0.050 0.050 0.050	966 1/2014 SPK value 0.9940 0.9940 0.9940	SPK Ref Val 0 0.007807 0	RunNo: 19 SeqNo: 56 %REC 111 108 110	9616 68878 LowLimit 77.4 77 77.6	Units: mg/F HighLimit 142 132 134	(g	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	E. Wall AG 3-pt Co 6/30/2014	Result 1.1 1.1 1.1 3.3 1.1	PQL 0.050 0.050 0.050	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940	SPK Ref Val 0 0.007807 0 0.01174	RunNo: 19 ReqNo: 56 %REC 111 108 110 110 112	9616 68878 LowLimit 77.4 77.6 77.4 80	Units: mg/k HighLimit 142 132 134 132	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom	E. Wall AG 3-pt Co 6/30/2014	Result 1.1 1.1 1.1 3.3 1.1 D SampT	PQL 0.050 0.050 0.050 0.050	966 1/2014 SPK value 0.9940 0.9940 0.9940 2.982 0.9940	SPK Ref Val 0 0.007807 0 0.01174	RunNo: 19 ReqNo: 56 %REC 111 108 110 110 112	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method	Units: mg/k HighLimit 142 132 134 132 120	Kg %RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID:	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene	Result 1.1 1.1 1.1 3.3 1.1 D SampT	PQL 0.050 0.050 0.050 0.099	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940	SPK Ref Val 0 0.007807 0 0.01174	RunNo: 19 SeqNo: 56 %REC 111 108 110 110 112 tCode: EF	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method	Units: mg/k HighLimit 142 132 134 132 120	%RPD	RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID:	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co	Result 1.1 1.1 1.1 3.3 1.1 D SampT Batch	PQL 0.050 0.050 0.050 0.099	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014	SPK Ref Val 0 0.007807 0 0.01174	RunNo: 19 SeqNo: 56 %REC 111 108 110 110 112 tCode: EF RunNo: 19 SeqNo: 56	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola	%RPD	RPDLimit RPDLimit	Qual
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co	Result 1.1 1.1 1.1 3.3 1.1 D SampT D Batch	PQL 0.050 0.050 0.050 0.099 Type: MS pate: 7/2	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014	SPK Ref Val 0 0.007807 0 0.01174 Tes	RunNo: 19 SeqNo: 56 %REC 111 108 110 110 112 tCode: EF RunNo: 19 SeqNo: 56	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method 9616 68879 LowLimit 77.4	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola	%RPD		
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co	Result 1.1 1.1 1.1 3.3 1.1 D SampT D Batch Analysis D	PQL 0.050 0.050 0.050 0.099 vype: MS pate: 7/2	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014 SPK value	SPK Ref Val 0 0.007807 0 0.01174 Tes F	RunNo: 19 SeqNo: 56 %REC 111 108 110 110 112 tCode: EF RunNo: 19 SeqNo: 56 %REC	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method 9616 68879 LowLimit	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola Units: mg/k HighLimit	%RPD tiles %RPD	RPDLimit	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co	Result 1.1 1.1 1.1 3.3 1.1 D SampT D Batch Analysis D Result 1.2	PQL 0.050 0.099 Type: MS atte: 7/2 PQL 0.050 0.050 0.099 Type: MS atte: 7/2 PQL 0.050	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014 SPK value 0.9970	SPK Ref Val 0 0.007807 0 0.01174 Tes F SPK Ref Val 0	RunNo: 19 SeqNo: 56 %REC 111 108 110 110 112 tCode: EF RunNo: 19 SeqNo: 56 %REC 117	9616 68878 LowLimit 77.4 77.6 77.4 80 PA Method 9616 68879 LowLimit 77.4	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola Units: mg/k HighLimit 142	%RPD tiles %RPD 5.34	RPDLimit 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co 6/30/2014	Result 1.1 1.1 1.1 3.3 1.1 D SampT Batch Analysis D Result 1.2 1.1	PQL 0.050 0.050 0.099 Type: MS 1D: 138 PQL 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050 0.050	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014 SPK value 0.9970 0.9970	SPK Ref Val 0 0.007807 0 0.01174 Tes F SPK Ref Val 0 0.007807	RunNo: 19 ReqNo: 56 %REC 111 108 110 112 tCode: EF RunNo: 19 ReqNo: 56 %REC 117 112	9616 68878 LowLimit 77.4 77 77.6 77.4 80 PA Method 9616 68879 LowLimit 77.4 77	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola Units: mg/k HighLimit 142 132	%RPD	RPDLimit 20 20	
Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bron Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	E. Wall AG 3-pt Co 6/30/2014 nofluorobenzene 1406D41-002AMSI E. Wall AG 3-pt Co 6/30/2014	Result 1.1 1.1 1.1 3.3 1.1 D SampT Batch Analysis D Result 1.2 1.1 1.2	PQL 0.050 0.099 Type: MS pate: 7/19 PQL 0.050 0.05	966 1/2014 SPK value 0.9940 0.9940 2.982 0.9940 6D 966 1/2014 SPK value 0.9970 0.9970 0.9970	SPK Ref Val 0 0.007807 0 0.01174 Tes SPK Ref Val 0 0.007807 0	RunNo: 19 ReqNo: 56 %REC 111 108 110 112 tCode: El RunNo: 19 ReqNo: 56 %REC 117 112 115	9616 68878 LowLimit 77.4 77 77.6 77.4 80 PA Method 9616 68879 LowLimit 77.4 77	Units: mg/k HighLimit 142 132 134 132 120 8021B: Vola Units: mg/k HighLimit 142 132 134	%RPD tiles %RPD 5.34 3.98 4.90	RPDLimit 20 20 20 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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	1406D4	1		RcptNo	1
Received by/date:	06/28/14		×			
Logged By: Lindsay Mangin	6/28/2014 6:45:00 AM		Thunky!	Harageo		
Completed By: Lindsay Mangin	6/28/2014 9:15:26 AM		Struky	Happy		
Reviewed By: A 04/30/14			U	0		
Chain of Custody			W W W		*	
1. Custody seals intact on sample bottles	?	Yes	. No		Not Present ✔	
2. Is Chain of Custody complete?		Yes v	No No		Not Present	
3. How was the sample delivered?		Courier	:			
100/0						
<u>Log In</u>		-	7			
4. Was an attempt made to cool the sam	ples?	Yes	V. No		NA .	
5. Were all samples received at a temper	ature of >0° C to 6.0°C	Yes 🗸	n No	. 1	NA	
6. Sample(s) in proper container(s)?		Yes	No			
7. Sufficient sample volume for indicated	test(s)?	Yes V	, No			
8. Are samples (except VOA and ONG) p		Yes V				
9. Was preservative added to bottles?	, , , , , , , , , , , , , , , , , , , ,	Yes		V	NA ·	
10.VOA vials have zero headspace?		Yes			No VOA Vials 🗸	
11. Were any sample containers received	broken?	Yes	No	~	# of preserved	
12. Does paperwork match bottle labels?		Yes y	No		bottles checked for pH:	
(Note discrepancies on chain of custod	y)	165 19	, NO		5.	or >12 unless noted)
13. Are matrices correctly identified on Cha	ain of Custody?	Yes V	/i No	÷	Adjusted?	
14. Is it clear what analyses were requeste	d?	Yes N	. No			
15. Were all holding times able to be met?		Yes •	. No	1	Checked by:	
(If no, notify customer for authorization.	.)					
Special Handling (if applicable)						
16. Was client notified of all discrepancies	with this order?	Yes i.	No		NA 🗸	
Person Notified:	Vanisara compressor de la compressor de	TARREST MARKET				
By Whom:	Date: Via:	eMail	Phone :	Fax	In Person	
Regarding:	TO.	CIVICAL	THORE .	- UX		
Client Instructions:			CANTON ON THE PROPERTY OF SHIP AND	-		
17. Additional remarks:						
18. Cooler Information						
Cooler No Temp °C Condition	Seal Intact Seal No	Seal Date	Signed	Ву	· ·	
1 2.2 Good	Yes]	

Chain-of-Custody Record				Turn-Around	Time:	By WED.								NES/			10. H H	VIII -	· m.a	ra:		
Client:	BLAGG	ENG.	NEERING INC.	☐ Standard	Rush	By WED.	HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com															
Mailing	Address:	MERIC	A Box 87	5	BATO GC			400	24 11									7400				
K	LODM	FIELS	NM 87413	Project #:			,			аwкі 15-34		NE - 975		uque ax								
Phone 7	± 50	5-3	20-1183									DECEMBER OF	St. 100	sis	8 TO 1 E		S-6- 10.					
email or				Project Mana	ger:		EMB's (8021)	ly)	P					(4)								
QA/QC F	Package: dard	*	☐ Level 4 (Full Validation)	J- BLA66				TPH (Gas only)	SO / TANKED)			SIMS)		,PO4,SC	PCB's							
Accredi		□ Othe	or	Sampler: J_ BLAUL On Ice: Series III No				+ TPH	(GRO/DF	418.1)	04.1)	8270		O3,NO2	s / 8082		(A)					or N)
□ EDD	(Type)_			Sample Teini	edure Z-1	12	#	HH.	<u>G</u>	bd 4	od 5	0 0	stals	Ž,	ide	¥	-\0	DE			1	ح
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX + ME	BTEX + MTBE	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or 8270	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
27/14	0840	SOIL	E. Wall AF 3-pt conp.	40221	COUL	-001	X		X									X				
ıı	0850	tΙ	EWALL AG 3-pt comp		ι(-002	X		X									4		-		
ι(0900	el	E WALL AH 3-pt cong	11	ı(-003	X		X					0.		¥		X				
£ (0910		EWALL AI 3 pt conf	11	1	-004	×		X									X				
14	0920	1(E WALL AJ 3-pt comp	1/	11	-005	X		X			4 4.				×		X			1	
																	,					
																				\neg		\Box
												_									\Box	
					1		-			-										\neg	\vdash	
Date: Time: Relinquished by: 21,4 1300 J. Blagg Date: Time: Relinquished by:			Received by:	K	Olosiu Time Date Time	Rer	nark				Bi						1					
				J				E	SP	Con	ta	*	7 6	EL	75	PE,	Acq	<u></u>				