OIL CONS. DIV DIST. 3

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

JUL 08 2016

Form C-141 Revised August 8, 2011

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

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

		Rele	ease Notific	ation	and Co	rrective A	ction	1			
					OPERA	ГOR		☐ Initia	al Report	\boxtimes	Final Report
	ompany: BP				Contact: Jef						
	00 Energy Court, Farm					lo.: 505-326-94			1		
Facility Na	me: Gallegos Canyon	Unit 2071	<u> </u>		Facility Typ	e: Natural gas v	well				
Surface Ow	mer: Federal		Mineral C	wner: l	Federal			API No	. 3004541	532	
			LOCA	TION	OF REI	LEASE			2	3 80	75
Unit Letter D	Section Township 28N	Range 12W	Feet from the 950	North/ North	South Line	Feet from the 1,070	East/V West	West Line	County: S	an Juan	
	Latitu	ide36.6				-108.086387	<u>'6</u>		_		
			NAT	URE	OF RELI						
	ease: unknown	05111				Release: unknow			Recovered: n Hour of Dis		Ameil 11
Source of Re	elease: below grade tank	- 95 DDI			unknown	our of Occurrence	æ.	2014 – 11		covery.	April 11,
Was Immedi	ate Notice Given?	Yes 🗵	No Not Re	equired	If YES, To	Whom?					
By Whom?					Date and H						
Was a Water	course Reached?	Yes 🗵	No		If YES, Vo	lume Impacting t	the Wate	ercourse.			
If a Watercon	urse was Impacted, Desc	ribe Fully.	*								
95 bbl BGT.	use of Problem and Remo The impacts are believed d surface during the remo	d to be his	torical and are like	ely impa	cts of a forme	er earthen pit loca	ation. B	edrock san	dstone was e	iscovere	ed beneath a ered at 8-12'
5 feet in all d recompleted 17 soil boring peroxide was	a Affected and Cleanup lirection with a total of a well being put back into gs were completed as in- s complete, 5 additional s of the in-situ chemical t	pproximate service. T situ, chemi soil borings	ely 15 cubic yards the remaining impaical injection points were advance for	of soil racts were ts for the confirm	emoved from the delineated value application of the application of the application applica	the site. The ren via the advancement of hydrogen pero- ory samples. The	nedial e ent of 1' xide. A e confir	xcavation volumes of the soil boring feer the appropriation same	vas halted do g via hand a dication of to ples demons	ue to the uguring he hydr strated t	g. 11 of the ogen
regulations a public health should their of or the environment	ify that the information g ll operators are required or the environment. The operations have failed to nment. In addition, NMo, or local laws and/or reg	to report and acceptant adequately OCD accep	nd/or file certain rece of a C-141 report investigate and re	elease no ort by the emediate	otifications are NMOCD made contamination	nd perform correct arked as "Final Roon that pose a thr	ctive act eport" de eat to gr	ions for rele loes not reli round water	eases which leve the oper r, surface wa	may en rator of iter, hui	idanger liability man health
						OIL CON	SERV	ATION	DIVISIO	N	
Signature:	Hear Man)						/2	our /	1)	- 4
Printed Nam	e: Steve Moskal			1	Approved by	Environmental S	pecialis	t:	15-	15	
Title: Field E	Environmental Coordinat	or		1	Approval Dat	e: 8/19/14	6	Expiration	Date:		
E-mail Addre	ess: steven.moskal@bp.c	om			Conditions of	Approval:			Attached		
Date: June 3	0, 2016	Phone: 50	05-326-9497								

* Attach Additional Sheets If Necessary

#NCS 1411151357



BP America Production Company

Gallegos Canyon Unit 207E (D) Sec 14 – T28N – R12W API: 30-045-23897 San Juan County, New Mexico

Summary Record of Impacted Soil Remediation

March 31, 2014

Confirmation sampling conducted of the 95 barrel below-grade tank (BGT) following the approved New Mexico Oil Conservation Division's (NMOCD) bgt permit closure plan.

April 2, 2014

Lab report delivered to Blagg Engineering, Inc. (BEI). The following table below shows the 2010 NMOCD 19.15.17.13 NMAC (pit rule) closure constituents, testing methods, and standards (release verification). Lab results of the 5 point composite sample collected immediately below bgt bottom are shown in the far right column.

Constituents	Testing Method	Release Verification (mg/Kg)	95 BGT 5-pt.@ 6' (mg/Kg)
Benzene	US EPA Method SW-846 8021B or 8260B	0.2	< 0.24*
Total BTEX	US EPA Method SW-846 8021B or 8260B	50	10
TPH	US EPA Method SW-846 418.1	100	4,300
Chlorides	US EPA Method 300.0 or 4500B	250 or background	< 30

Notes:

mg/Kg = milligram per kilogram, BTEX = benzene, toluene, ethylbenzene, and total xylenes, TPH = total petroleum hydrocarbons. *- Lab Reporting Detection Limit value. Other EPA methods that the division approves may be applied to all constituents listed. Chloride closure standards will be determined by which ever concentration level is greatest.

In addition, it was requested by BEI to analyze the confirmation sample for TPH using US EPA Method 8015B. The results revealed total TPH = 2,330 mg/Kg, in which gasoline range organics (GRO) = 430 mg/Kg and Diesel Range Organics (DRO) = 1,900 mg/Kg.

June 17, 2014

Initiated site remediation by excavation with trackhoe. Evaluation of NMOCD's "Guidelines for Remediation of Leaks, Spills and Releases", dated August 13, 1993, for site ranking criteria indicated a closure standard of 1,000 mg/Kg for TPH based on groundwater depth estimated at greater than 100 feet from the known impacted soil vertical depth. Final dimensions of the excavation was 15 ft. x 12 ft. x 6-7.5 ft. depth.

June 20, 2014

Collection of soil & bedrock surface samples from excavation and additional lateral determination using hand auger. Lab report furnished revealed TPH using US EPA Method 8015B 2,600 mg/Kg from three (3) point composite sample of excavation bottom (sample ID: 3PC-EB @ 7.5' (95) and Non Detect at the Reporting Limits from four (4) point composite sample of excavation sidewalls (sample ID: 4PC-SW @ 3'-6' (95).

June 24, 2014

Additional excavation of northeast perimeter extended approximately five (5) feet. Two (2) samples collected from sidewall [NE –SW @ 5' (95)] and bedrock [NE – SW @ 7' (95)]. Both samples were below applied closure standard (see Table 1 on following page). Final dimensions of impacted soil removed and replaced with imported clean soil was 15 ft. x 18 ft. x 1.5 ft. depth or approximately 15 cubic yards. Photos of excavation collected prior to backfilling with clean, imported soils.

June 26, 2014

Additional investigation in the northwest, west, southwest (between production tanks), and south of previous excavation. Impacts discovered at bedrock sandstone surface only (see Site Diagram – Figure 1).

May 9, 2016

Installation of seventeen (17) hand auger investigation points within remaining impact area located west of prior remedial excavation and east of 300 barrel stock tanks (see Figure 2). Each point terminated at the surface of dense sandstone located between 4.5' – 8.0' below surface grade. Points labeled as A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P&Q. Eleven (11) of the points (B,C,E,H,J,K,L,M,N,O&Q) selected for remediation of impacts via in-situ hydrogen peroxide treatment based on field OVM test results.

May 11, 2016

Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

May 13, 2016

Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

May 17, 2016

Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

May 20, 2016

Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

May 24, 2016

Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

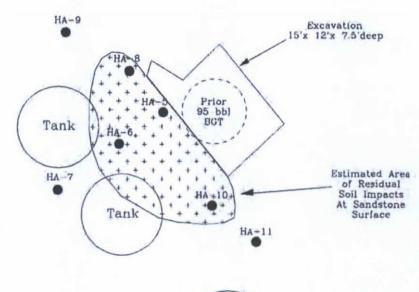
June 16, 2016

Confirmation closure sampling collected from impacted zone by hand augering at five (5) separate and discrete locations. Sample points were selected with concurrence from on site NMOCD representative (see Figure 2). Points were labeled as HA-101, HA-102, HA-103, HA-104 and HA-105. Samples were submitted to Hall Environmental Laboratories for analysis of TPH by USEPA Method 8015D, BTEX by USEPA Method 8021B and chlorides by USEPA Method 300.0

June 28, 2016

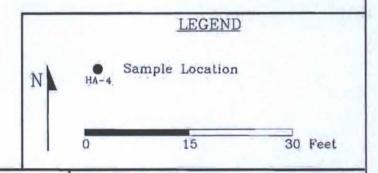
Receive confirmation closure laboratory results from lab:

Sample	Sample	Field	TPH	TPH	TPH	BTEX	Chloride
ID	Depth	OVM	(GRO)	(DRO)	(GRO+DRO)	Total	(mg/Kg)
	(feet)	(ppm)	(mg/KG)	(mg/Kg)	(mg/Kg)	(mg/Kg)	
HA-101	4.0'-6.0'	520	21	770	791	ND	ND
HA-102	5.0'-6.9'	172	ND	390	390	ND	ND
HA-103	5.4'-7.3'	955	40	390	430	0.12	ND
HA-104	5.0'-5.8'	99	ND	65	65	ND	ND
HA-105	5.7'-7.1'	77	ND	540	540	ND	ND



95 Low Profile Tank

Hand Auger ID	Depth of Sandstone Surface	TPH at Sand Stone
HA-5	7 1'	3,350 ppm
HA-6	6.0	2,730 ppm
HA-7	4.0	0.0 ppm
HA-8	6.6"	2.480 ppm
HA-9	6.0"	0.0 ppm
HA-10	5.7	3,460 ppm
HA-11	4.5'	0.0 ppm



BP ** GC	SITE DIAGRAM U 207E ** (D)14-		BLAGG ENGINEERING, INC.
DATE: 6/2014	FIGURE 1	BY: JCB	P.O. BOX 87, BLOOMFIELD, NM PHONE: (505)632-1199

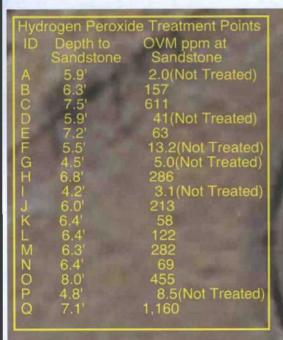




Figure 2 GCU 207E

Remedial Excavation 6/17/2014

	Confi	rmation Sar	nple Point	
ID	Depth to	Sample	OVM	Lab TPH
	Sandstone	Interval	(ppm)	mg/Kg
101	6.0'	4.0'-6.0'	520	791
102	6.9'	5.0'-6.9'	172	390
103	7.3'	5.4'-7.3'	955	430
104	5.8'	5.0'-5.8'	99	65
105	7.1'	5.7'-7.1'	77	540

Google earth

@ 2018 Google

N

20 ft

TABLE 1

BP AMERICA PRODUCTION COMPANY

GCU # 207E

Unit Letter D, Section 14, T28N, R12W - API Number: 30-045-23897

(Cleanup & Post Cleanup Investigation of 95 barrel Below-grade Tank)

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLING COLLECTION	FIELD OVM READING (ppm)	TPH - cumulative (mg/Kg)	Benzene (mg/Kg)	BTEX - cumulative (mg/Kg)	Soil Description / Comments
HA1 @ 7.5' (95)	06/17/14	1106	GRAB	449	NA	NA	NA	Sample collected with hand auger, medium to dark gray soil immediately above bedrock sandstone
TH1 @ 8' (95)	06/17/14	1119	GRAB	99.5	256.7	ND	ND	Dark yellowish orange to olive gray (sample) sand to silty sand, bedrock sandstone at total depth
3PC-EB @ 7.5' (95)	06/20/14	0855	COMPOSITE	717	2,600	ND	8.9	Excavation bottom composite sample, bedrock sandstone, varying shades of gray
4PC-SW @ 3'-6' (95)	06/20/14	0905	COMPOSITE	0.0	ND	ND	ND	Excavation sidewall composite sample, dark yellowish orange sand to silty sand
HA3 @ 7' (95)	06/20/14	0930	GRAB	461	NA	NA	NA	Sample collected with hand auger, medium to dark gray soil immediately above bedrock sandstone
HA4 @ 5.75' (95)	06/20/14	0958	GRAB	1.4	ND	ND	ND	Sample collected with hand auger, dark yellowish to pale yellowish orange sand to silty sand
NE - SW @ 5' (95)	06/24/14	0957	GRAB	4.6	ND	ND	ND	Excavation sidewall sample, dark yellowish orange sand to silty sand
NE - SW @ 7' (95)	06/24/14	0858	GRAB	263	469	ND	0.82	Excavation sidewall sample consisting of bedrock sandstone, olive gray
HA-5 @ 7.1-7.6'	06/26/14	1340	GRAB	354	3,350	ND	2.2	Sample collected with hand auger, bedrock sandstone surface @ 7.1' below grade
HA-6 @ 6.0-7.2'	06/26/14	1405	GRAB	488	2,730	ND	25	Sample collected with hand auger, bedrock sandstone surface @ 6.0' below grade
HA-7 @ 4.0-4.4'	06/26/14	1415	GRAB	2.8	ND	ND	ND	Sample collected with hand auger, bedrock sandstone surface @ 4.0' below grade
HA-8 @ 6.6-7.7'	06/26/14	1435	GRAB	265	2,480	ND	1.1	Sample collected with hand auger, bedrock sandstone surface @ 6.6' below grade
HA-9 @ 6.0-7.1'	06/26/14	1457	GRAB	1.9	ND	ND	ND	Sample collected with hand auger, bedrock sandstone surface @ 6.0' below grade
HA-10 @ 5.7-6.4'	06/26/14	1514	GRAB	487	3,460	ND	2.1	Sample collected with hand auger, bedrock sandstone surface @ 5.7' below grade
HA-11 @ 4.5-5.2'	06/26/14	1526	GRAB	1.1	ND	ND	ND	Sample collected with hand auger, bedrock sandstone surface @ 4.5' below grade
				***	4 000	40	==	

NMOCD RELEASE CLOSURE STANDARDS (soils) -

100 1,000 10

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).

Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

NMOCD - New Mexico Oil Conservation Division.

ppm - Parts per million.

mg/Kg - Milligram per kilogram.

ND - Not detected at Reporting Limit.

NA - Not available or applicable.

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993.

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

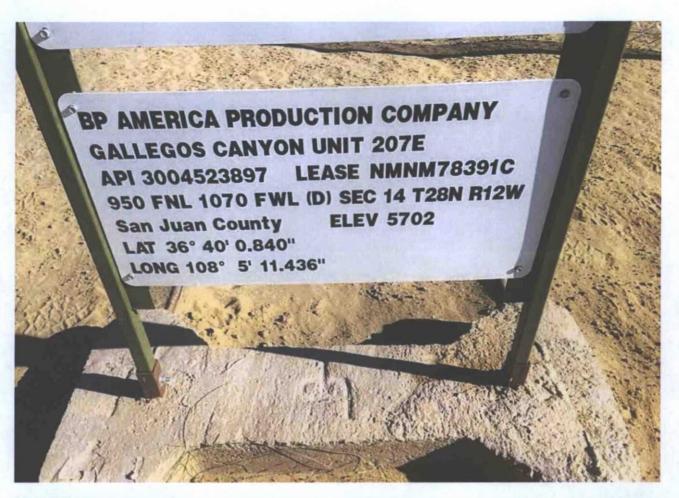
OVM CALIBRATION DATA

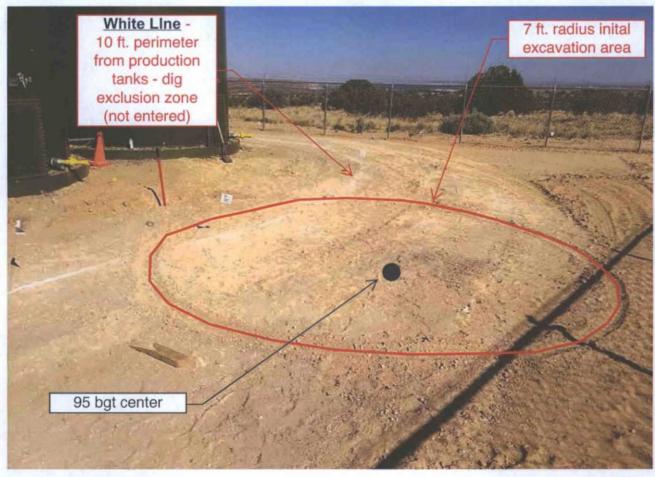
TPH -

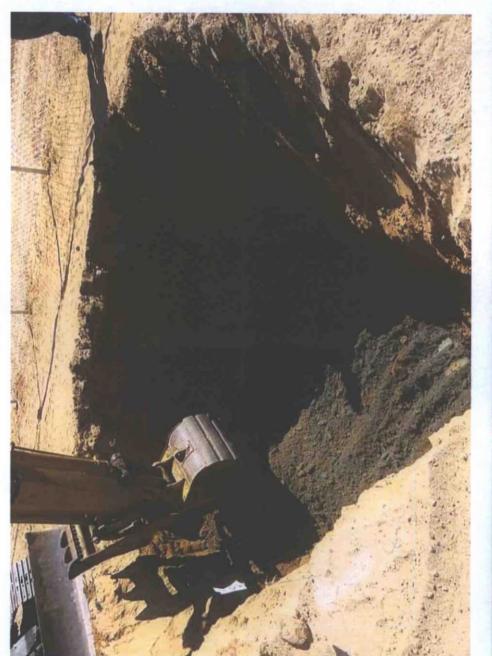
DATE	TIME	READING
06/17/14	1132	52.5
06/20/14	0915	52.3

DATE	TIME	READING
06/24/14	1005	52.1
06/26/14	0650	52.2

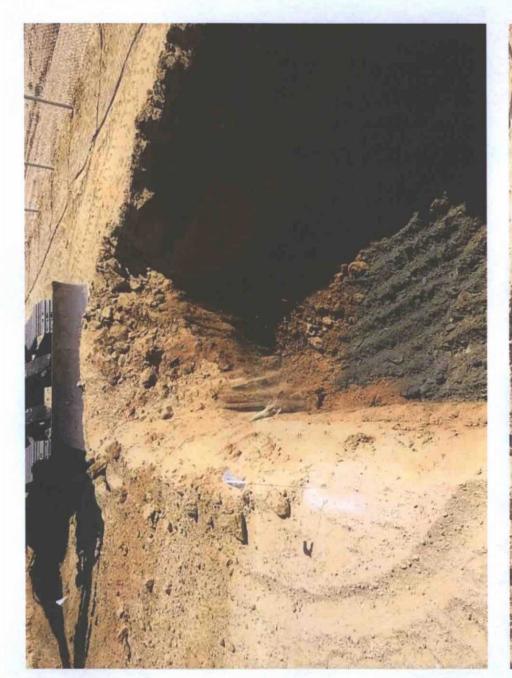
CLIENT: BP	P.O. BOX 87, B	NGINEERING, INC. LOOMFIELD, NM 87 95) 632-1199	413	API #: 3004523 TANK ID (if applicble): A	897
FIELD REPORT:	3	RELEASE INVESTIGATION OTHER: B BGT - INITIALLY SAMPLED ON 0	3/31/14	PAGE#:1 of	1
SITE INFORMATION	I: SITE NAME: GCU #	207E		DATE STARTED: 06/1	7/14
QUAD/UNIT: D SEC: 14 TWP:	28N RNG: 12W PM:	NM CNTY: SJ ST	NM	DATE FINISHED:	
1/4 -1/4/FOOTAGE: 950'N / 1,070 LEASE #: SF078905		YPE: FEDERAL/STATE/FEE/CROSSFIRE ONTRACTOR: MBF-F. ARAG		ENVIRONMENTAL SPECIALIST(S): J(В
REFERENCE POINT				01 51 57 F	7001
1) 95 BGT (SW/DB)		36.66689 X 1 6.66718 X 108.08597		1001	,702' N55E
		0.007 TO X 100.00007			TOOL
2)	GPS COORD.:			RING FROM W.H.:	
3)	GPS COORD.:		The state of the s	RING FROM W.H.:	
4)	GPS COORD.:		DISTANCE/BEA	RING FROM W.H.:	OVM
SAMPLING DATA:	CHAIN OF CUSTODY RECORD(S) # 0	I I/Clarks	_		READING (ppm)
1) SAMPLE ID: HA1 @ 7.5' (98		The second of th	70 70 70 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NA NA	449
2) SAMPLE ID: TH1 @ 8' (95)	SAMPLE DATE: 06/17	/14 SAMPLETIME 1119 LABANA	ysis: 8015	B / 8021B / 300.0 (CI)	99.5
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAI	LYSIS:		
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME: LAB ANAL			
SOIL DESCRIPTION	SOIL TYPE: SAND / SILTY SAND /	SILT / SILTY CLAY / CLAY / GRAVEL OTH	ER GRADE	CK SANDSTONE @ 7'-7.5' E - VERY HARD, COMPETEN	ELOW T.
COHESION (ALL OTHERS): NON COHESIVE SLIGHTLY CONSISTENCY (NON COHESIVE SOILS): LO MOISTURE: DRY SLIGHTLY MOIST / MOIST / W SAMPLE TYPE: GRAB / COMPOSITE - # DISCOLORATION/STAINING OBSERVED: YES / N	DOSE FIRM/ DENSE / VERY DENSE ET / SATURATED / SUPER SATURATED # OF PTS. NA	PLASTICITY (CLAYS): NON PLASTIC / SLIG- DENSITY (COHESIVE CLAYS & SILTS): HC ODOR DETECTED: YES NO EXPLAN SOIL NEAR & WITHIN BEDROCK, ANY AREAS DISPLAYING WETNESS: YES ES OF GRAY BETWEEN 6 - 7.5 FEE	SOFT / FIRM / S NATION - STRO SLIGHTLY W NO EXPLAN	STIFF / VERY STIFF / HARD ONG FROM OBVIOUS DISC ITHIN SAMPLE FROM TH1. IATION -	OLORED
SITE OBSERVATION					
APPARENT EVIDENCE OF A RELEASE OBSERVE	D AND/OR OCCURRED : YES NO EXPL		YDROCARBO	N ODOR.	
EQUIPMENT SET OVER RECLAIMED AREA: OTHER: SIDEWALLS CONTAIN IMPACTED S		MAC MATURIN NE CIAL O MINI ADEA ONI V	TEST HOLE	ADVANCED DID NOT DEVEAL	ANV
DISCOLORATION. HAND AUGER (HA) BOR					
SOIL IMPACT DIMENSION ESTIMATION:				TIMATION (Cubic Yards):	15
DEPTH TO GROUNDWATER: >100' N	EAREST WATER SOURCE: >1,000	NEAREST SURFACE WATER: <1,0	000' NMOC	D TPH CLOSURE STD: 1,00	0 ppm
SITE SKETCH	BCT Located : off / on sit	PLOT PLAN circle: at	tached	CALIB. READ. = 52.5 ppn	DE - 0.50
OFF-SITE SURFACE P DRAINAGE DIRECTION	HA4	EXCAVATION PERIMETER	♦ ovm	CALIB. GAS = 100 ppn	RF = 0.52
	9 19	~ 15 ft. X 12 ft. X 7.5 ft. depth Impact interval @ 6' - 7.5'	N TIME	11:32 am/pm DATE: 0	6/17/14
①- S.P.D. (bottom) ②- S.P.D. (sidewalls)	25'			MISCELL. NOT	FS
Sample ID Date Time OVM	TH1	NE-SW (2 ft. beyond HA4 & from fence)	144	o: N15464952	LO
3PC-EB @ 7.5' (95) 06/20/14 0855 717	HA2 HA1	Additional 5 ft. Exc extended on 06/	avalion	O#:	
4PC-SW @ 3' - 6' (95) 06/20/14 0910 0.0	200	BEDROCK SANDSTO		K: ZDCS01GEN1	
HA3 @ 7' (95) 06/20/14 0930 461		@ 6.5' - 7.5' BELOW (PRADE	J#:	
HA4 @ 5.75' (95) 06/20/14 0958 1.4 NE-SW @ 5' (95) 06/24/14 0957 4.6	T	.B. ~ 6' PERIMETER SECURIT		ermit date(s):	
NE-SW @ 7' (95) 06/24/14 0958 263	PROD. TANKS	B.G. LOW PROFILE ABOVE-GRADE TANK	0	CD Appr. date(s):	er
OVM CALIB. READ. = 52.3 ppm RF = 0.52 OVM CALIB.	READ. = 52.1 ppm RF = 0.52		ID		
OVM CALIB. GAS = 100 ppm OVM CALIB.	GAS = 100 ppm Nr - 0.32	SEPARATOR		BGT Sidewalls Visible: Y / I	
TIME 9:15 am DATE 06/20/14 TIME 10:		TOMETH TRATUME APPRAISANCE	THE PARTY OF THE P	BGT Sidewalls Visible: Y / I	
		OINT DESIGNATION; R.W. = RETAINING WALL; N		lagnetic declination: 10	
NOTES: GOOGLE FARTH IMA		ONSITE: 06/17/14 06	/20/14 06	124144	



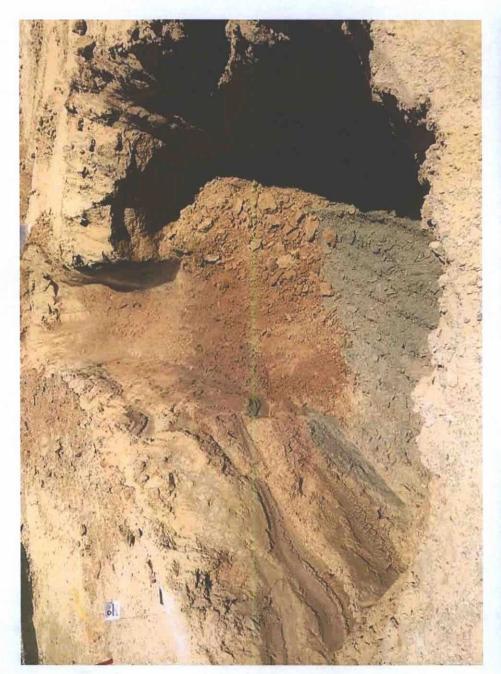


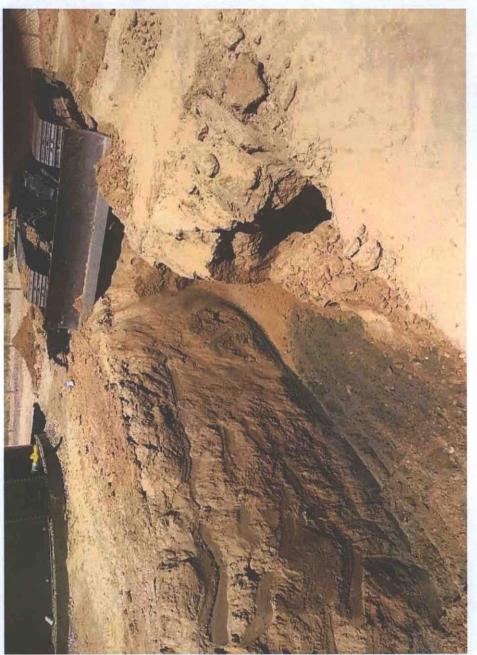
















Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 20, 2014

Nelson Velez

Blagg Engineering

P.O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-3489

FAX

RE: GCU # 207 E

OrderNo.: 1406820

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/18/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406820

Date Reported: 6/20/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: TH1 @ 8' (95)

 Project:
 GCU # 207 E
 Collection Date: 6/17/2014 11:19:00 AM

 Lab ID:
 1406820-001
 Matrix: MEOH (SOIL)
 Received Date: 6/18/2014 7:40:00 AM

Batch RL Qual Units **DF** Date Analyzed Result Analyses **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: BCN 6/18/2014 1:35:48 PM 13755 Diesel Range Organics (DRO) 250 10 mg/Kg %REC 6/18/2014 1:35:48 PM 13755 98.7 57.9-140 Surr: DNOP Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 6/18/2014 12:44:38 PM R19352 Gasoline Range Organics (GRO) 6.7 4.3 mg/Kg 6/18/2014 12:44:38 PM R19352 91.1 80-120 %REC Surr: BFB Analyst: NSB **EPA METHOD 8021B: VOLATILES** Benzene ND 0.043 mg/Kg 6/18/2014 12:44:38 PM R19352 Toluene ND 0.043 mg/Kg 1 6/18/2014 12:44:38 PM R19352 6/18/2014 12:44:38 PM R19352 ND 0.043 mg/Kg Ethylbenzene ND 0.086 mg/Kg 6/18/2014 12:44:38 PM R19352 Xylenes, Total %REC 6/18/2014 12:44:38 PM R19352 Surr: 4-Bromofluorobenzene 116 80-120

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 4
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406820

20-Jun-14

Client:

Blagg Engineering

Project:

GCU # 207 E

Sample ID MB-13755 Client ID: **PBS**

SampType: MBLK Batch ID: 13755

RunNo: 19341

TestCode: EPA Method 8015D: Diesel Range Organics

Prep Date: 6/18/2014

Analysis Date: 6/18/2014

SeqNo: 559117

Units: mg/Kg

Result PQL

ND

8.4

HighLimit

10 10.00 84.0

SPK value SPK Ref Val %REC

57.9 140

LowLimit

%RPD **RPDLimit**

Qual

Diesel Range Organics (DRO) Surr: DNOP

SampType: LCS

TestCode: EPA Method 8015D: Diesel Range Organics

Sample ID LCS-13755 Client ID: LCSS

Batch ID: 13755

RunNo: 19341

Units: mg/Kg

Prep Date: 6/18/2014 Analysis Date: 6/18/2014

SeqNo: 559118

HighLimit

%RPD **RPDLimit**

Qual

Analyte Diesel Range Organics (DRO)

SPK value SPK Ref Val 49 50.00 5.000

%REC LowLimit 98.5 85.2

60.8 145 140

Surr: DNOP

4.3 57.9

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J 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
- 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 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406820

20-Jun-14

Client:

Blagg Engineering

GCII # 207 F

Sample ID MB-13743 MK	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: R19352	RunNo: 19352		
Prep Date:	Analysis Date: 6/18/2014	SegNo: 559936	Units: mg/Kg	
Analyte		SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0			
Surr: BFB	890 1000	89.0 80	120	
Sample ID LCS-13743 MK	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: R19352	RunNo: 19352		
Prep Date:	Analysis Date: 6/18/2014	SeqNo: 559937	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Gasoline Range Organics (GRO)	25 5.0 25.00	0 98.6 71.7	134	
Surr: BFB	1100 1000	106 80	120	
Sample ID MB-13743	SampType: MBLK	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: PBS	Batch ID: 13743	RunNo: 19352		
Prep Date: 6/17/2014	Analysis Date: 6/18/2014	SeqNo: 559944	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Surr: BFB	890 1000	89.0 80	120	
Sample ID LCS-13743	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range	
Client ID: LCSS	Batch ID: 13743	RunNo: 19352		
Prep Date: 6/17/2014	Analysis Date: 6/18/2014	SeqNo: 559946	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Surr: BFB	1100 1000	106 80	120	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- Not Detected at the Reporting Limit ND
- P Sample pH greater than 2.
- Reporting Detection Limit

Page 3 of 4

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406820

20-Jun-14

Client: Project. Blagg Engineering

GCII # 207 F

Project: GCU # 2	207 E								
Sample ID MB-13743 MK	SampType:	MBLK	Tes	tCode: EF	A Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID:	R19352	F	RunNo: 19	9352				
Prep Date:	Analysis Date:	6/18/2014	8	SeqNo: 55	59977	Units: mg/k	(g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND 0.05	0							
Toluene	ND 0.05	60							
Ethylbenzene	ND 0.05	60							
Xylenes, Total	ND 0.1	0							
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID LCS-13743 MK	SampType: 1	LCS	Tes	tCode: EP	A Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID: 1	R19352	F	RunNo: 19	352				
Prep Date:	Analysis Date:	6/18/2014	S	SeqNo: 55	59979	Units: mg/h	(g		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96 0.05	0 1.000	0	96.1	80	120			
Toluene	0.94 0.05	0 1.000	0	93.5	80	120			
Ethylbenzene	0.94 0.05	0 1.000	0	94.4	80	120			
Xylenes, Total	3.0 0.1	0 3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.2	1.000		115	80	120			
Sample ID MB-13743	SampType: I	MBLK	Tes	tCode: EP	A Method	8021B: Vola	tiles		
Client ID: PBS	Batch ID:	13743	F	RunNo: 19	352				
Prep Date: 6/17/2014	Analysis Date:	6/18/2014	S	SeqNo: 55	9985	Units: %RE	С		
Analyte	Result PQI	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.0	1.000		102	80	120			
Sample ID LCS-13743	SampType: I	_CS	Tes	tCode: EP	A Method	8021B: Vola	tiles		
Client ID: LCSS	Batch ID:	13743	F	RunNo: 19	352				
Prep Date: 6/17/2014	Analysis Date:	6/18/2014	S	SeqNo: 55	9986	Units: %RE	С		
Analyte	Result PQI	SDK value	SPK Ref Val	%REC	Lowl imit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

1.2

1.000

Value above quantitation range

Surr: 4-Bromofluorobenzene

- 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
- Not Detected at the Reporting Limit ND

115

120

- Sample pH greater than 2.
- Reporting Detection Limit

Page 4 of 4



11411 Environmental Analysis Euroratory

4901 Hawkins NE

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 Orde	Number: 1406820 RcptNo: 1
Received by/date: OG(18(1	f
Logged By: Lindsay Mangin 6/18/2014.7:	0:00 AM Smaly House
Completed By: Lindsay Mangin 6/18/2014 8:	5:54 AM Smales Hames
Reviewed By:	114
Chain of Custody)
1. Custody seals intact on sample bottles?	Yes No Not Present ❤
2. Is Chain of Custody complete?	Yes ✓ No Not Present
3. How was the sample delivered?	Courier
Log In	
4. Was an attempt made to cool the samples?	Yes ✓ No NA
5. Were all samples received at a temperature of >0° C to 6	0°C Yes ♥ No NA
6. Sample(s) in proper container(s)?	Yes No
7. Sufficient sample volume for indicated test(s)?	Yes V No
8. Are samples (except VOA and ONG) properly preserved?	Yes V 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 V
	# of preserved bottles checked
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes No : for pH: (<2 or >12 unless noted
13. Are matrices correctly identified on Chain of Custody?	Yes V No Adjusted?
14. Is it clear what analyses were requested?	Yes V No
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes No Checked by:
Special Handling (if applicable)	
16. Was client notified of all discrepancies with this order?	Yes ☐ No NA ✔
Person Notified:	Date:
By Whom:	Via: eMail Phone Fax In Person
Regarding:	
Client Instructions:	
17. Additional remarks:	
18. Cooler Information	
	No Seal Date Signed By
1 2.1 Good Yes	

Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	☑ Rush _	SAME				A	IN	AL	YS	SIS	SL	A	30	RA	TO	
Mailing Ad	ddress:	P.O. BO	X 87		GCU # 20	7E		49	01 H								.com	7109		
		BLOOM	FIELD, NM 87413	Project #:					el. 50								-410			
Phone #:		(505) 63	2-1199									-	Inal						100	1
email or F	ax#:			Project Manag	jer:				mu									1)		
QA/QC Pad			Level 4 (Full Validation)		NELSON V	ELEZ	5(80218)	(Aluo	tome)			(5)		04,50	PCB's			er - 300.1)		
Accreditat		□ Other		Sampler: On ice:	NELSON V	ELEZ 9NS	WB's (80	TPH (Gas only)	/ DRO /	418.1)	04.1)	8270SIMS)		3,NO2,F	/ 8082		(1	0.0 / water		sample
□ EDD (T				Provide the second seco	erature: 2		IF	+	(GRO		d 5(r 8,	als	NO,	des	-	0	-300	0.	site
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEALNO 140(820)	BTEX +-WITDE	BTEX + MTBE	TPH 8015B (G	TPH (Method	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO3,NO2,PO4,SO4)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0	Grab sample	5 pt. composite
6/17/14	1119	SOIL	TH1 @ 8' (95)	4 oz 1	Cool	-001	٧		٧										V	
																And the second s				
-																			_	\Box
-																1			+	1
Date: 1/17/14 Date: 1/17/14	Time: 1535 Time: 1725	Relinquisher Chris	levy	Received by:	Wales OG	Date Time 1/17/14 1535 Date Time 18/14 0140 as. This serves as notice of	Jef We	f Pea ork C	RECT ace, 2 Order	200 E	nerg N15	y Co 4649	952	_	Pa	ykey			1GEN	1



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

June 25, 2014

Nelson Velez

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-3489

FAX

RE: GCU #207E

OrderNo.: 1406A00

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/21/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

John Caldwell

Supervisor

4901 Hawkins NE

Albuquerque, NM 87109

abollwell

Lab Order 1406A00

Date Reported: 6/25/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 3PC-EB @ 7.5' (95)

Project: GCU #207E

Collection Date: 6/20/2014 8:55:00 AM

Lab ID: 1406A00-001

Matrix: MEOH (SOIL) Received Date: 6/21/2014 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	2100	98		mg/Kg	10	6/23/2014 11:33:05 AM	13833
Surr: DNOP	0	57.9-140	S	%REC	10	6/23/2014 11:33:05 AM	13833
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst:	NSB
Gasoline Range Organics (GRO)	500	44		mg/Kg	10	6/23/2014 12:29:29 PM	R19437
Surr: BFB	397	80-120	S	%REC	10	6/23/2014 12:29:29 PM	R19437
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.22		mg/Kg	10	6/23/2014 12:29:29 PM	R19437
Toluene	ND	0.44		mg/Kg	10	6/23/2014 12:29:29 PM	R19437
Ethylbenzene	2.3	0.44		mg/Kg	10	6/23/2014 12:29:29 PM	R19437
Xylenes, Total	6.6	0.87		mg/Kg	10	6/23/2014 12:29:29 PM	R19437
Surr: 4-Bromofluorobenzene	145	80-120	S	%REC	10	6/23/2014 12:29:29 PM	R19437
EPA METHOD 300.0: ANIONS						Analyst:	JRR
Chloride	ND	30		mg/Kg	20	6/23/2014 12:39:14 PM	13840

3 point composite sample from excavation bottom (medium to dark gray in color)

TPH = 2,600 mg/Kg total BTEX = 8.9 mg/Kg

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

Lab Order 1406A00

Date Reported: 6/25/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 4PC-SW @ 3'-6' (95)

Project: GCU #207E

Collection Date: 6/20/2014 9:05:00 AM

Lab ID: 1406A00-002

Matrix: MEOH (SOIL)

Received Date: 6/21/2014 10:00:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst:	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/23/2014 12:03:14 PM	13833
Surr: DNOP	86.6	57.9-140	%REC	1	6/23/2014 12:03:14 PM	13833
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/23/2014 11:29:11 AM	R19437
Surr: BFB	90.6	80-120	%REC	1	6/23/2014 11:29:11 AM	R19437
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.047	mg/Kg	1	6/23/2014 11:29:11 AM	R19437
Toluene	ND	0.047	mg/Kg	1	6/23/2014 11:29:11 AM	R19437
Ethylbenzene	ND	0.047	mg/Kg	1	6/23/2014 11:29:11 AM	R19437
Xylenes, Total	ND	0.095	mg/Kg	1	6/23/2014 11:29:11 AM	R19437
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1	6/23/2014 11:29:11 AM	R19437
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	6/23/2014 12:14:24 PM	13840

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

Lab Order 1406A00

Date Reported: 6/25/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA4 @ 5.75' (95)

Project: GCU #207E

Collection Date: 6/20/2014 9:58:00 AM

Lab ID: 1406

1406A00-003

Matrix: MEOH (SOIL) Received Date: 6/21/2014 10:00:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/25/2014 4:22:36 PM	13833
Surr: DNOP	79.5	57.9-140	%REC	1	6/25/2014 4:22:36 PM	13833
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	5.1	mg/Kg	1	6/23/2014 11:59:21 AM	R19437
Surr: BFB	91.1	80-120	%REC	1	6/23/2014 11:59:21 AM	R19437
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.051	mg/Kg	1	6/23/2014 11:59:21 AM	R19437
Toluene	ND	0.051	mg/Kg	1	6/23/2014 11:59:21 AM	R19437
Ethylbenzene	ND	0.051	mg/Kg	1	6/23/2014 11:59:21 AM	R19437
Xylenes, Total	ND	0.10	mg/Kg	1	6/23/2014 11:59:21 AM	R19437
Surr: 4-Bromofluorobenzene	108	80-120	%REC	1	6/23/2014 11:59:21 AM	R19437
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	6/23/2014 12:26:49 PM	13840

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#:

1406A00

26-Jun-14

Client:

Blagg Engineering

Project:

GCU #207E

Sample ID MB-13840

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 13840

RunNo: 19468

Prep Date: 6/23/2014

Analysis Date: 6/23/2014

SeqNo: 563225

Units: mg/Kg

HighLimit

%RPD

RPDLimit

Qual

Analyte Chloride

Result ND

PQL

TestCode: EPA Method 300.0: Anions

SPK value SPK Ref Val %REC LowLimit

Client ID: LCSS

Sample ID LCS-13840

Prep Date: 6/23/2014

SampType: LCS Batch ID: 13840

Analysis Date: 6/23/2014

RunNo: 19468 SeqNo: 563226

Units: mg/Kg

Qual

Analyte Chloride

PQL SPK value SPK Ref Val %REC 1.5

15.00

0

LowLimit

HighLimit

%RPD

Result 14

92.3

90

110

RPDLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- 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
- P Sample pH greater than 2.
- Reporting Detection Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406A00

26-Jun-14

Client:

Blagg Engineering

GCI1 #207E

Sample ID MB-13833	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13833	RunNo: 19428
Prep Date: 6/23/2014	Analysis Date: 6/23/2014	SeqNo: 561973 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	7.5 10.00	75.3 57.9 140
Sample ID LCS-13833	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13833	RunNo: 19428
Prep Date: 6/23/2014	Analysis Date: 6/23/2014	SeqNo: 561976 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	46 10 50.00	0 92.3 68.6 130
Surr: DNOP	3.6 5.000	72.8 57.9 140
Sample ID MB-13809	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13809	RunNo: 19464
Prep Date: 6/20/2014	Analysis Date: 6/24/2014	SeqNo: 563212 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.1 10.00	81.1 57.9 140
Sample ID LCS-13809	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13809	RunNo: 19464
Prep Date: 6/20/2014	Analysis Date: 6/24/2014	SeqNo: 563213 Units: %REC
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	3.8 5.000	76.7 57.9 140

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- 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
- Sample pH greater than 2.
- Reporting Detection Limit

Page 5 of 7

Hall Environmental Analysis Laboratory, Inc.

970

947.9

WO#: 140

1406A00 26-Jun-14

Client:

Blagg Engineering

Project:

GCU #207E

Project: GCU#	207E								
Sample ID MB-13820 MK	SampType: M	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	je	
Client ID: PBS	Batch ID: R	19437	F	RunNo: 1	9437				
Prep Date:	Analysis Date: 6	/23/2014	5	SeqNo: 5	62664	Units: mg/F	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	ND 5.0 970	1000		97.1	80	120			
Sample ID LCS-13820 MK	SampType: L0	cs	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: R	19437	F	RunNo: 1	9437				
Prep Date:	Analysis Date: 6	/23/2014	8	SeqNo: 50	62665	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 5.0	25.00	0	91.5	71.7	134			
Surr: BFB	980	1000		98.2	80	120			
Sample ID 1406A00-002AM	S SampType: M	S	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	10	
Client ID: 4PC-SW @ 3'-6'	(95) Batch ID: R	19437	F	RunNo: 19	9437				
Prep Date:	Analysis Date: 6	/23/2014	8	SeqNo: 50	62668	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

102

80

120

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.

1.0

1.000

WO#: 1406A00

26-Jun-14

Client:

Blagg Engineering

Project:

GCU #207E

Sample ID MB-13820 MK	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: R1	19437	F	RunNo: 1	9437				
Prep Date:	Analysis I	Date: 6	/23/2014	\$	SeqNo: 5	62691	Units: mg/h	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								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			
Sample ID LCS-13820 MK	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: R1	9437	F	RunNo: 1	9437				
Prep Date:	Analysis [Date: 6	/23/2014	5	SeqNo: 5	62692	Units: mg/F	⟨ g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.050	1.000	0	97.8	80	120			
Toluene	0.96	0.050	1.000	0	96.0	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.5	80	120			
	3.0	0.10	3.000	0	99.5	80	120			

99.7

80

120

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- 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
- 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

Albuquerque, NM 87105 Sample Log-In Check List

Client Name: BLAGG	Work Order Numbe	r: 1406A00		RcptNo: 1
Received by/date:	00 21 2	014		,
Logged By: Ashley Gallegos	6/21/2014 10:00:00 A	M	A	
	6/21/2014 10:⊉4:37 A	M	A	
Reviewed By:	30/10/10	NI I	0	
Chain of Custody	May for	717		
1. Custody seals intact on sample bottles?		Yes	No 🗌	Not Present ✓
2. Is Chain of Custody complete?		Yes 🗹	No 🗌	Not Present
3. How was the sample delivered?		Courier		
Log In				
4. Was an attempt made to cool the samples?		Yes 🗹	No 🗆	NA 🗆
5. Were all samples received at a temperature	of >0° C to 6.0°C	Yes 🗹	No 🗌	NA 🗆
6. Sample(s) in proper container(s)?		Yes 🗸	No 🗆	
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗆	
8. Are samples (except VOA and ONG) properly	y 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 broke	n?	Yes	No 🗸	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸	No 🗆	# of preserved bottles checked for pH: (<2 or >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:
Special Handling (if applicable)				
16. Was client notified of all discrepancies with the	nis order?	Yes	No 🗌	NA 🗹
Person Notified:	Date:		- 0.0000 may	
By Whom:	Via:	eMail P	hone Fax	☐ In Person
Regarding:	1 1111		The Late of the la	
Client Instructions:		The strains of		
17. Additional remarks:				
18. Cooler Information				
1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	al Intact Seal No	Seal Date	Signed By	
1 2.1 Good Yes				

C	hain-	of-Cus	stody Record	Turi-Albana	IIIIe.	SAME					AL	11	F	N	/TE	20	NI	MEN	TA	AIL.	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	☑ Rush _	DAY												RA			r
				Project Name							ww	w.ha	allen	viro	nme	ntal	.com	1			
Mailing A	ddress:	P.O. BO	X 87		GCU # 207	7E		49	01 H	lawk	cins I	NE -	Alk	ouqu	ierqi	ue, N	IM 8	37109			
		BLOOM	FIELD, NM 87413	Project #:				Te	1. 50	05-3	45-3	975		Fax	505	-345	-410)7			
Phone #:		(505) 63	2-1199									P	Anal	ysis	Rec	ques	ŧ	1	T		
email or F	ax#:			Project Manag	ger:			-	nv					-				F			Γ
QA/QC Pad Standa			Level 4 (Full Validation)		NELSON VI	ELEZ	80218)	+ TPH (Gas only)	-tonne			(S)		05,50	PCB's			er - 300.1)		sample	
Accreditat	tion:			Sampler:	NELSON VI	ELEZ IN	- ×	Gas	RO /	1	1)	SIN		02,1	8082			water			
□ NELAP		□ Other		On Ice:	Z Yes	□No	1	PH (/ DRO	418.1)	504.1)	8270SIMS)		N'80	-		(A)	300.0		composite	1
□ EDD (1	Гуре)			Sample Temp	érature:	21	I	E+1	(GRC	po 7	po	0	tals	N'N	cide	A)	i-VC		e e	mp	
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO	BTEX +-MTE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method	EDB (Method	PAH (8310	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	# of pts. cc	
6/20/14	0855	SOIL	3PC - EB @ 7.5' (95)	4 oz 1	Cool	-001	٧		٧									٧		3	
6/20/14	0905	SOIL	4PC - SW @ 3' - 6' (95)	4 oz 1	Cool	-002	٧		٧									٧		4	-
6/20/14	0958	SOIL	HA4 @ 5.75' (95)	4 oz 1	Cool	-003	٧		٧									٧	٧		-
																					-
																					<u> </u>
Date: /	Time:	Relinquish	ed by:	Received by:	/]	Date Time	Ren	nark	s:												
Date:	Time:	Relinquish	ed by:	Received by:	Maete	Date Time	Je	ff Pea	ace,		Energ							37401 ZDCS01	GEN:	1	
[20]14	1820	ary samples s	ubmitted to Hall Environmental may be	Subcontracted to other	ACCORDING Inhoratori	s. This serves as notice o															_



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

OrderNo.: 1406B24

June 30, 2014

Nelson Velez
Blagg Engineering
P. O. Box 87
Bloomfield, NM 87413
TEL: (505) 320-3489
FAX

RE: GCU # 207E

Dear Nelson Velez:

Hall Environmental Analysis Laboratory received 2 sample(s) on 6/25/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406B24

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: NE - SW @ 5' (95)

Project: GCU # 207E Collection Date: 6/24/2014 9:57:00 AM

Lab ID: 1406B24-001 Matrix: MEOH (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	6/25/2014 10:44:01 AM	13880
Surr: DNOP	89.6	57.9-140	%REC	1	6/25/2014 10:44:01 AM	13880
EPA METHOD 8015D: GASOLINE RAI	NGE				Analyst:	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/25/2014 10:08:26 AM	R19486
Surr: BFB	89.6	80-120	%REC	1	6/25/2014 10:08:26 AM	R19486
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.047	mg/Kg	1	6/25/2014 10:08:26 AM	R19486
Toluene	ND	0.047	mg/Kg	1	6/25/2014 10:08:26 AM	R19486
Ethylbenzene	ND	0.047	mg/Kg	1	6/25/2014 10:08:26 AM	R19486
Xylenes, Total	ND	0.093	mg/Kg	1	6/25/2014 10:08:26 AM	R19486
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	6/25/2014 10:08:26 AM	R19486
EPA METHOD 300.0: ANIONS					Analyst:	JRR
Chloride	ND	30	mg/Kg	20	6/25/2014 11:46:38 AM	13886

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 6

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

Lab Order 1406B24

Date Reported: 6/30/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: NE - SW @ 7' (95)

 Project:
 GCU # 207E
 Collection Date: 6/24/2014 8:58:00 AM

 Lab ID:
 1406B24-002
 Matrix: MEOH (SOIL)
 Received Date: 6/25/2014 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	410	10		mg/Kg	1	6/25/2014 12:00:09 PM	13880
Surr: DNOP	91.7	57.9-140		%REC	1	6/25/2014 12:00:09 PM	13880
EPA METHOD 8015D: GASOLINE R.	ANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	59	4.4		mg/Kg	1	6/25/2014 10:38:35 AM	R19486
Surr: BFB	580	80-120	S	%REC	1	6/25/2014 10:38:35 AM	R19486
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.044		mg/Kg	1	6/25/2014 10:38:35 AM	R19486
Toluene	ND	0.044		mg/Kg	1	6/25/2014 10:38:35 AM	R19486
Ethylbenzene	0.10	0.044		mg/Kg	1	6/25/2014 10:38:35 AM	R19486
Xylenes, Total	0.72	0.088		mg/Kg	1	6/25/2014 10:38:35 AM	R19486
Surr: 4-Bromofluorobenzene	139	80-120	S	%REC	1	6/25/2014 10:38:35 AM	R19486
EPA METHOD 300.0: ANIONS						Analyst:	JRR
Chloride	ND	30		mg/Kg	20	6/25/2014 11:59:03 AM	13886

Approx. 5 feet from northeast excavation perimeter & 2 feet from perimeter security fence (olive gray color - similar to TH1 in appearance)

TPH = 469 mg/Kgtotal BTEX = 0.82 mg/Kg

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#:

1406B24

30-Jun-14

Client:

Blagg Engineering

Project:

GCU # 207E

Sample ID MB-13886

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

RunNo: 19526

Prep Date: 6/25/2014

Batch ID: 13886 Analysis Date: 6/25/2014

Units: mg/Kg

Qual

Analyte

SeqNo: 565224 SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Chloride

ND 1.5

SampType: LCS

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Sample ID LCS-13886

Batch ID: 13886

RunNo: 19526

Prep Date: 6/25/2014

Analysis Date: 6/25/2014

SeqNo: 565225

Units: mg/Kg

%RPD

Result PQL

15.00

Analyte Chloride

0

HighLimit 110

14 1.5

SPK value SPK Ref Val %REC

94.4

RPDLimit

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Value above quantitation range

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

Reporting Detection Limit

Analyte detected below quantitation limits

Holding times for preparation or analysis exceeded H

Page 3 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B24

30-Jun-14

Client:

Blagg Engineering

Project:	GCU # 20	J/E					4					
Sample ID	MB-13880	SampType	: ME	BLK	TestCode: EPA Method 8015D: Diesel Range Organics							
Client ID:	PBS	Batch ID: 13880			RunNo: 19466							
Prep Date:	6/25/2014	Analysis Date	: 6/	25/2014	8	SeqNo: 5	63896	Units: mg/F	(g			
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Surr: DNOP	Organics (DRO)	ND 8.4	10	10.00		84.2	57.9	140		· f		
Sample ID	LCS-13880	SampType	: LC	s	Tes	tCode: E	PA Method	8015D: Dies	el Range (Organics		
Client ID:	LCSS	Batch ID	: 13	880	F	RunNo: 1	9466					
Prep Date:	6/25/2014	Analysis Date	: 6/	25/2014	S	SeqNo: 5	63897	Units: mg/K	(g			
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Surr: DNOP	Organics (DRO)	46 4.1	10	50.00 5.000	0	91.5 82.5	68.6 57.9	130 140				
Sample ID	1406B24-001AMS	S	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	100			
Client ID:	NE - SW @ 5' (95)	Batch ID	: 13	880	R	RunNo: 1	9466					
Prep Date:	6/25/2014	Analysis Date	: 6/	25/2014	S	SeqNo: 5	64017	Units: mg/K	(g			
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range (Surr: DNOP	Organics (DRO)	47 4.3	9.9	49.36 4.936	0	95.5 87.9	40.1 57.9	152 140				
Sample ID	1406B24-001AMSI	O SampType	: MS	SD	Test	tCode: El	PA Method	8015D: Diese	el Range (Organics		
Client ID:	NE - SW @ 5' (95)	Batch ID	: 130	880	R	RunNo: 1	9466					
Prep Date:	6/25/2014	Analysis Date	: 6/	25/2014	S	SeqNo: 5	64032	Units: mg/K	(g			
Analyte		Result P	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
137	Organics (DRO)	51	10	50.40	0	101	40.1	152	7.25	32.1		
						TOWN TO THE PARTY.						
Surr: DNOP		4.7		5.040		94.0	57.9	140	0	0		
	MB-13913	4.7 SampType	: МВ		Test			140 8015D: Diese			1	
Sample ID	MB-13913 PBS			BLK			PA Method	115.013.41			1	
Sample ID	PBS	SampType	: 139	3LK 913	R	tCode: El	PA Method 9522	115.013.41	el Range (
Sample ID Client ID:	PBS	SampType Batch ID Analysis Date	: 139	3LK 913 26/2014	R	tCode: El	PA Method 9522	8015D: Diese	el Range (Qual	
Sample ID Client ID: Prep Date:	PBS	SampType Batch ID Analysis Date	: 139	3LK 913 26/2014	R	tCode: El RunNo: 1: SeqNo: 5	PA Method 9522 65609	8015D: Diese Units: %RE	el Range (Organics	Qual	
Sample ID Client ID: Prep Date: Analyte Surr: DNOP	PBS	SampType Batch ID Analysis Date Result P	: 139 : 6/2	913 26/2014 SPK value 10.00	SPK Ref Val	RunNo: 1: SeqNo: 5: %REC 66.4	PA Method 9522 65609 LowLimit 57.9	8015D: Diese Units: %RE HighLimit	el Range (CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Organics RPDLimit	Qual	
Sample ID Client ID: Prep Date: Analyte Surr: DNOP	PBS 6/26/2014 LCS-13913	SampType Batch ID Analysis Date Result P 6.6	: 139 : 6/2 QL	913 26/2014 SPK value 10.00	SPK Ref Val	RunNo: 1: SeqNo: 5: %REC 66.4	PA Method 9522 65609 LowLimit 57.9	8015D: Diese Units: %RE HighLimit 140	el Range (CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	Organics RPDLimit	Qual	
Sample ID Client ID: Prep Date: Analyte Surr: DNOP Sample ID Client ID:	PBS 6/26/2014 LCS-13913	SampType Batch ID Analysis Date Result P 6.6 SampType	: 139 : 6/2 : C: LC:	913 26/2014 SPK value 10.00 S	SPK Ref Val Test	RunNo: 1: SeqNo: 5: %REC 66.4	PA Method 9522 65609 LowLimit 57.9 PA Method 9522	8015D: Diese Units: %RE HighLimit 140	el Range (C %RPD	Organics 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.
- RL Reporting Detection Limit

Page 4 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B24

30-Jun-14

Client:

Blagg Engineering

Project:

GCU # 207E

Para		е	ne Range	8015D: Gaso	Method	LK	e: MB	SampType	5ML RB	Sample ID		
Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Sasoline Range Organics (GRO) ND 5.0 840 1000 84.1 80 120 Section		RunNo: 19486								Batch ID	PBS	Client ID:
Sample ID 2.5UG GRO LCS SampType: MSD SampType: LCS				Units: mg/K	52	eqNo: 56	S	25/2014	e: 6/2	Analysis Date		Prep Date:
Sum: BFB 840 1000 84.1 80 120	Qual	RPDLimit	%RPD	HighLimit	owLimit	%REC	SPK Ref Val	SPK value	PQL	Result F		Analyte
Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: R19486 RunNo: 19486 Prep Date: Analysis Date: 6/25/2014 SeqNo: 564553 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Sample ID 1406B24-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486 Prep Date: Analysis Date: 6/25/2014 SeqNo: 564555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Gasoline Range Organics (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 102 80 120									5.0	ND	e Organics (GRO)	asoline Range
Client ID: LCSS Batch ID: R19486 RunNo: 19486 RunNo: 19486				120	80	84.1		1000		840		Surr: BFB
Prep Date Analysis Date 6/25/2014 SeqNo: 564553 Units: mg/Kg		е	ne Range	8015D: Gaso	Method	Code: EP	Test	s	e: LC	SampType	2.5UG GRO LCS	Sample ID
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Basoline Range Organics (GRO) 25 5.0 25.00 0 101 71.7 134 Surr: BFB 950 1000 95.2 80 120 Sample ID 1406B24-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486 Prep Date: Analysis Date: 6/25/2014 SeqNo: 564555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Basoline Range Organics (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 102 80 120 SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486					6	ınNo: 19	R	9486): R19	Batch ID	LCSS	Client ID:
Sasoline Range Organics (GRO) 25 5.0 25.00 0 101 71.7 134				Units: mg/K	53	eqNo: 56	S	25/2014	e: 6/2	Analysis Date		Prep Date:
Surr: BFB 950 1000 95.2 80 120 Sample ID 1406B24-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486 Prep Date: Analysis Date: 6/25/2014 SeqNo: 564555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Management (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 TestCode: EPA Method 8015D: Gasoline Range Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486	Qual	RPDLimit	%RPD	HighLimit	owLimit	%REC	SPK Ref Val	SPK value	PQL	Result F		Analyte
Sample ID 1406B24-001AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range				134	71.7	101	0	25.00	5.0	25	e Organics (GRO)	asoline Range
Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486 Prep Date: Analysis Date: 6/25/2014 SeqNo: 564555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Basoline Range Organics (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 102 80 120 Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486	- 5 1	1		120	80	95.2		1000		950		Surr: BFB
Prep Date: Analysis Date: 6/25/2014 SeqNo: 564555 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Basoline Range Organics (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 102 80 120 Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486		е	ne Range	8015D: Gasol	Method 8	Code: EP	Test		e: MS	SampType	1406B24-001AMS	Sample ID
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Basoline Range Organics (GRO) 23 4.7 23.30 0 96.9 71.8 132 Surr: BFB 950 932.0 102 80 120 Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486					6	ınNo: 19	R	9486): R19	Batch ID	NE - SW @ 5' (95)	Client ID:
Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486				Units: mg/Kg	55	eqNo: 56	S	25/2014	e: 6/2	Analysis Date		Prep Date:
Sum: BFB 950 932.0 102 80 120 Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486	Qual	RPDLimit	%RPD	HighLimit	wLimit	%REC	SPK Ref Val	SPK value	PQL	Result F		Analyte
Sample ID 1406B24-001AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486				132	71.8	96.9	0	23.30	4.7	23	e Organics (GRO)	asoline Range
Client ID: NE - SW @ 5' (95) Batch ID: R19486 RunNo: 19486				120	80	102		932.0		950		Surr: BFB
		е	ne Range	8015D: Gasol	Method 8	Code: EP	Test	D	e: MS	SampType	1406B24-001AMSC	Sample ID
Prep Date: Analysis Date: 6/25/2014 SeqNo: 564556 Units: mg/Kg					6	ınNo: 19	R	9486): R19	Batch ID	NE - SW @ 5' (95)	Client ID:
				Units: mg/Kg	56	eqNo: 56	S	5/2014	e: 6/2	Analysis Date		Prep Date:
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit	Qual	RPDLimit	%RPD	HighLimit	wLimit	%REC	SPK Ref Val	SPK value	PQL	Result P		Analyte

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

96.0

120

932.0

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

Page 5 of 6

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406B24

30-Jun-14

Client:

Blagg Engineering

Project:

GCU # 207E

Sample ID 5ML RB	Samp	ype: M	BLK	Tes						
Client ID: PBS	Batc	Batch ID: R19486 Analysis Date: 6/25/2014			RunNo: 1	9486				
Prep Date:	Analysis [SeqNo: 5	64562	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								
Kylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	80	120	1		
Sample ID 100NG BTEX LCS SampType: LCS				Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batc	n ID: R1	9486	F	RunNo: 1	9486				

Sample ID 100NG BTEX LC	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batc	Batch ID: R19486 Analysis Date: 6/25/2014			RunNo: 19486					
Prep Date:	Analysis [SeqNo: 564563			(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	80	120			
Toluene	1.0	0.050	1.000	0	104	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.3	0.10	3.000	0	110	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 6 of 6



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

Received by/date: Logged By: Lindsay Mangin 6/25/2014 8:10:00 AM Completed By: Lindsay Mangin 6/25/2014 8:18:12 AM Reviewed By: (1 S 06/25/14) Chain of Custody 1. Custody seals intact on sample bottles? Yes No Not Present 12. Is Chain of Custody complete? Yes No Not Present 23. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? Yes No Not Not Present 15. Were all samples received at a temperature of >0° C to 6.0°C Yes No Not Not Not Not Not Not Not Not Not	p: 1
Logged By: Lindsay Mangin 6/25/2014 8:10:00 AM Completed By: Lindsay Mangin 6/25/2014 8:18:12 AM Reviewed By: (\(\) \	
Completed By: Lindsay Mangin 6/25/2014 8:18:12 AM Reviewed By: (\S 06/25/14) Chain of Custody 1. Custody seals intact on sample bottles? Yes No Not Present 2. Is Chain of Custody complete? Yes No Not Present 3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? Yes No No Not Present 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No No NA 6. Sample(s) in proper container(s)? Yes No No NA	
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes ✓ No Not Present Courier No Not Present Courier No Not Present Courier No Not Present Courier No Not Present No Not Present Courier No Not Present No Not Present Courier No Not Present No No Not Present No No Not Present No Not Present No No Not Present No No No No Not Present	
Chain of Custody 1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes ✓ No Not Present Courier No Not Present No Not Present No Not Present Courier Log In 4. Was an attempt made to cool the samples? Yes ✓ No No NA NA Sample(s) in proper container(s)? Yes ✓ No No NA	
1. Custody seals intact on sample bottles? 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes No Not Present Courier No Not Present No	
2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? Yes ✓ No Not Present No Not Present No Not Present Courier No Not Present	
3. How was the sample delivered? Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA NA NA NA NA NA NA NA NA	
Log In 4. Was an attempt made to cool the samples? 5. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA NA NA NA NA NA NA NA NA	
4. Was an attempt made to cool the samples? Yes No No NA NA No NA	
5. Were all samples received at a temperature of >0° C to 6.0°C Yes No No NA	
6. Sample(s) in proper container(s)?	
7. Sufficient sample volume for indicated test(s)? Yes ✓ No	
8. Are samples (except VOA and ONG) properly preserved?	
9. Was preservative added to bottles?	
10.VOA vials have zero headspace?	
11. Were any sample containers received broken?	
# of preserved bottles checked	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	or >12 unless noted)
13 Are matrices correctly identified on Chaln of Custody? Yes ✓ No Adjusted?	
14, Is it clear what analyses were requested?	
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 ✔	
Person Notified: Date:	
By Whom: Via: eMail Phone Fax In Person	
Regarding:	
Client Instructions:	
17. Additional remarks:	
18. Cooler Information	
Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By	
1 2.5 Good Yes	

C	hain-	ot-Cus	tody Record	I dili-Alouid	IIII.	SAME				-	A		F	NI	/TE	20	MI	ME	NT	'AI	
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard Project Name	Rush _	DAY				A	IN	AL	Y	SIS	S L	A		RA	TC		
Mailing Ad	ddress:	P.O. BO	X 87	44.5-	GCU # 207	7E		490	01 H									7109	,		
		BLOOM	FIELD, NM 87413	Project #:						05-34							-410				
Phone #:		(505) 63	2-1199				18				T.	F	Anal	ysis	Red	ques	t				
email or F	ax#:			Project Manag	ger:				AV	-				-				1)		T	T
QA/QC Pad	-		Level 4 (Full Validation)		NELSON VI	LEZ	5 (8021B)	only)	- (OHM			(S)		05,50	PCB's			er - 300.1)			a
Accreditat	ion:			Sampler:	NELSON V	LEZ av	- <u>E</u>	TPH (Gas	DRO /	1)	(1)	8270SIMS)		102,F	/8082			/ wat		- 1	dwe
□ NELAP)	☐ Other	an Handalliness	On Ice;	√√Yes	□ No.	I	TPH	_	418	504	827	S	03,1	35/		(AC	0.00			e S
□ EDD (1	ype)			Sample Temp	erature: Z	5	I	3E +	(GR	poi	pou	or	etal	N,	cide	A	i-V	il - 3		e	osit
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-MHE	BTEX + MTBE	TPH 8015B (GRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or	RCRA 8 Metals	Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄)	8081 Pesticides	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water		Grab sample	5 pt. composite sample
6/24/14	0957	SOIL	NE - SW @ 5' (95)	4 oz 1	Cool	-001	٧		٧									٧		٧	
6/24/14	0958	SOIL	NE - SW @ 7' (95)	4 oz 1	Cool	-002	V		٧									٧		v	+
						400															
																				1	1
							-		_										+	+	+
																			+	\top	1
																			\perp	1	\Box
							-						_		_				+	+	\dashv
			ar e e e	A- 1- 1- 1-								-			-				+	+	+
Date: 6/24/14 Date:	Time:	Relinquishe	half	Received by: Received by	Daete	Date Time	ВІ		RECT	LY TO 200 E			urt,	Farm	ningt	on, N	IM 8	7401			
W/24/14	1930	Chri	stulucus ubmitted to Hall Environmental may be s	M W	Oul	25/4 0810	W	ork O	rder	: _	N15	4649	952	_	Pa	ykey	: Z	DCSC)1GE		_



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

OrderNo.: 1406D42

July 07, 2014

Jeff Blagg

Blagg Engineering

P.O. Box 87

Bloomfield, NM 87413

TEL: (505) 320-1183 FAX (505) 632-3903

RE: GCU 207E

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 7 sample(s) on 6/28/2014 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-5 @ 7.1'-7.6'

Project: GCU 207E

Collection Date: 6/26/2014 1:40:00 PM

Lab ID: 1406D42-001

Matrix: SOIL

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

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE C	RGANICS					Analyst	BCN
Diesel Range Organics (DRO)	2900	100		mg/Kg	10	7/1/2014 10:33:45 AM	13968
Surr: DNOP	0	57.9-140	S	%REC	10	7/1/2014 10:33:45 AM	13968
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	450	25		mg/Kg	5	7/2/2014 12:47:16 AM	13966
Surr: BFB	864	80-120	S	%REC	5	7/2/2014 12:47:16 AM	13966
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	7/2/2014 12:47:16 AM	13966
Toluene	ND	0.25		mg/Kg	5	7/2/2014 12:47:16 AM	13966
Ethylbenzene	ND	0.25		mg/Kg	5	7/2/2014 12:47:16 AM	13966
Xylenes, Total	2.2	0.49		mg/Kg	5	7/2/2014 12:47:16 AM	13966
Surr: 4-Bromofluorobenzene	132	80-120	S	%REC	5	7/2/2014 12:47:16 AM	13966
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	7/1/2014 12:57:17 PM	14002

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 11

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

Analytical Report Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-6 @ 6.0'-7.2'

Project: GCU 207E

Collection Date: 6/26/2014 2:05:00 PM

Lab ID: 1406D42-002

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 C	RGANICS					Analyst	BCN
Diesel Range Organics (DRO)	2200	99		mg/Kg	10	7/1/2014 11:04:35 AM	13968
Surr: DNOP	0	57.9-140	S	%REC	10	7/1/2014 11:04:35 AM	13968
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	NSB
Gasoline Range Organics (GRO)	530	23		mg/Kg	5	7/2/2014 1:15:53 AM	13966
Surr: BFB	883	80-120	S	%REC	5	7/2/2014 1:15:53 AM	13966
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.12		mg/Kg	5	7/2/2014 1:15:53 AM	13966
Toluene	ND	0.23		mg/Kg	5	7/2/2014 1:15:53 AM	13966
Ethylbenzene	ND	0.23		mg/Kg	5	7/2/2014 1:15:53 AM	13966
Xylenes, Total	25	0.47		mg/Kg	5	7/2/2014 1:15:53 AM	13966
Surr: 4-Bromofluorobenzene	167	80-120	S	%REC	5	7/2/2014 1:15:53 AM	13966
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	7/1/2014 1:59:21 PM	14002

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 11

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

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-7 @ 4.0'-4.4'

Project: GCU 207E

Collection Date: 6/26/2014 2:15:00 PM

Lab ID: 1406D42-003

Matrix: SOIL

Received Date: 6/28/2014 6:45:00 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	6/30/2014 7:49:40 PM	13968
Surr: DNOP	84.5	57.9-140	%REC	1	6/30/2014 7:49:40 PM	13968
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/1/2014 5:38:09 PM	13966
Surr: BFB	96.8	80-120	%REC	1	7/1/2014 5:38:09 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	7/1/2014 5:38:09 PM	13966
Toluene	ND	0.048	mg/Kg	1	7/1/2014 5:38:09 PM	13966
Ethylbenzene	ND	0.048	mg/Kg	1	7/1/2014 5:38:09 PM	13966
Xylenes, Total	ND	0.095	mg/Kg	1	7/1/2014 5:38:09 PM	13966
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	7/1/2014 5:38:09 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 2:11:46 PM	14002

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 11

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

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-8 @ 6.6'-7.7'

Project: GCU 207E

Collection Date: 6/26/2014 2:35:00 PM

Lab ID: 1406D42-004

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)	2200	100		mg/Kg	10	7/1/2014 11:35:09 AM	13968
Surr: DNOP	0	57.9-140	S	%REC	10	7/1/2014 11:35:09 AM	13968
EPA METHOD 8015D: GASOLINE RANG	SE .					Analyst:	NSB
Gasoline Range Organics (GRO)	280	24		mg/Kg	5	7/2/2014 1:44:31 AM	13966
Surr: BFB	513	80-120	S	%REC	5	7/2/2014 1:44:31 AM	13966
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.12		mg/Kg	5	7/2/2014 1:44:31 AM	13966
Toluene	ND	0.24		mg/Kg	5	7/2/2014 1:44:31 AM	13966
Ethylbenzene	ND	0.24		mg/Kg	5	7/2/2014 1:44:31 AM	13966
Xylenes, Total	1.1	0.49		mg/Kg	5	7/2/2014 1:44:31 AM	13966
Surr: 4-Bromofluorobenzene	133	80-120	S	%REC	5	7/2/2014 1:44:31 AM	13966
EPA METHOD 300.0: ANIONS						Analyst:	JRR
Chloride	ND	30		mg/Kg	20	7/1/2014 2:24:11 PM	14002

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 4 of 11

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

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: HA-9 @ 6.0'-7.1'

Project: GCU 207E

Collection Date: 6/26/2014 2:57:00 PM

Lab ID: 1406D42-005

CLIENT: Blagg Engineering

Matrix: SOIL

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

Analyses	Result	RL C	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/30/2014 8:50:21 PM	13968
Surr: DNOP	84.4	57.9-140	%REC	1	6/30/2014 8:50:21 PM	13968
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	7/1/2014 9:27:08 PM	13966
Surr: BFB	92.0	80-120	%REC	1	7/1/2014 9:27:08 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.047	mg/Kg	1	7/1/2014 9:27:08 PM	13966
Toluene	ND	0.047	mg/Kg	1	7/1/2014 9:27:08 PM	13966
Ethylbenzene	ND	0.047	mg/Kg	1	7/1/2014 9:27:08 PM	13966
Xylenes, Total	ND	0.095	mg/Kg	1	7/1/2014 9:27:08 PM	13966
Surr: 4-Bromofluorobenzene	99.9	80-120	%REC	1	7/1/2014 9:27:08 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 2:36:35 PM	14002

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 11

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

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-10 @ 5.7'-6.4'

Project: GCU 207E

Collection Date: 6/26/2014 3:14:00 PM

Lab ID: 1406D42-006

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)	2900	100		mg/Kg	10	7/1/2014 12:05:39 PM	13968
Surr: DNOP	0	57.9-140	S	%REC	10	7/1/2014 12:05:39 PM	13968
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	560	47		mg/Kg	10	7/2/2014 2:13:07 AM	13966
Surr: BFB	608	80-120	S	%REC	10	7/2/2014 2:13:07 AM	13966
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	ND	0.23		mg/Kg	10	7/2/2014 2:13:07 AM	13966
Toluene	ND	0.47		mg/Kg	10	7/2/2014 2:13:07 AM	13966
Ethylbenzene	ND	0.47		mg/Kg	10	7/2/2014 2:13:07 AM	13966
Xylenes, Total	2.1	0.93		mg/Kg	10	7/2/2014 2:13:07 AM	13966
Surr: 4-Bromofluorobenzene	138	80-120	S	%REC	10	7/2/2014 2:13:07 AM	13966
EPA METHOD 300.0: ANIONS						Analyst	JRR
Chloride	ND	30		mg/Kg	20	7/1/2014 2:49:00 PM	14002

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 11

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

Lab Order 1406D42

Date Reported: 7/7/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-11 @ 4.5'-5.2'

Project: GCU 207E

Collection Date: 6/26/2014 3:26:00 PM

Lab ID: 1406D

1406D42-007 Matrix: SOIL

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

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS		1.0		Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/30/2014 9:51:00 PM	13968
Surr: DNOP	89.1	57.9-140	%REC	1	6/30/2014 9:51:00 PM	13968
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	7/1/2014 9:55:45 PM	13966
Surr: BFB	93.2	80-120	%REC	1	7/1/2014 9:55:45 PM	13966
EPA METHOD 8021B: VOLATILES					Analyst	NSB
Benzene	ND	0.048	mg/Kg	1	7/1/2014 9:55:45 PM	13966
Toluene	ND	0.048	mg/Kg	1	7/1/2014 9:55:45 PM	13966
Ethylbenzene	ND	0.048	mg/Kg	1	7/1/2014 9:55:45 PM	13966
Xylenes, Total	ND	0.097	mg/Kg	1	7/1/2014 9:55:45 PM	13966
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	7/1/2014 9:55:45 PM	13966
EPA METHOD 300.0: ANIONS					Analyst	JRR
Chloride	ND	30	mg/Kg	20	7/1/2014 3:01:25 PM	14002

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 7 of 11

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

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406D42

07-Jul-14

Client:

Blagg Engineering

Project:

GCU 207E

Sample ID MB-14002 TestCode: EPA Method 300.0: Anions SampType: MBLK Client ID: **PBS** Batch ID: 14002 RunNo: 19637 Prep Date: 7/1/2014 Analysis Date: 7/1/2014 SeqNo: 569535 Units: mg/Kg Analyte SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Chloride ND 1.5

Sample ID LCS-14002 SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 14002 RunNo: 19637 Prep Date: 7/1/2014 Analysis Date: 7/1/2014 SeqNo: 569536 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte PQL HighLimit Qual 14 15.00 92.4 Chloride 1.5 0 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406D42

07-Jul-14

Client:

Blagg Engineering

Project: GCU 2	207E	
Sample ID MB-13968	SampType: MBLK	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: PBS	Batch ID: 13968	RunNo: 19585
Prep Date: 6/30/2014	Analysis Date: 6/30/2014	SeqNo: 567719 Units: mg/Kg
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Surr: DNOP	7.2 10.00	72.1 57.9 140
Sample ID LCS-13968	SampType: LCS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: LCSS	Batch ID: 13968	RunNo: 19585
Prep Date: 6/30/2014	Analysis Date: 6/30/2014	SeqNo: 567720 Units: mg/Kg
Analyte	Result PQL SPK value	e 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 1406D41-001AN	MS SampType: MS	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: BatchQC	Batch ID: 13968	RunNo: 19585
Prep Date: 6/30/2014	Analysis Date: 6/30/2014	SeqNo: 567721 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 1406D41-001AN	MSD SampType: MSD	TestCode: EPA Method 8015D: Diesel Range Organics
Client ID: BatchQC	Batch ID: 13968	RunNo: 19585
Prep Date: 6/30/2014	Analysis Date: 6/30/2014	SeqNo: 567722 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	
Surr: DNOP	3.9 4.995	78.8 57.9 140 0 0

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit 0
- 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
- Sample pH greater than 2.
- Reporting Detection Limit

Page 9 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406D42

07-Jul-14

Client:

Blagg Engineering

Sample ID MB-13966	SampType: M	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	je	
Client ID: PBS	Batch ID: 1:	3966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis Date: 7	/1/2014	5	SeqNo: 5	68837	Units: mg/h	⟨ g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	970	1000	11 1	97.4	80	120			
Sample ID LCS-13966	SampType: Lo	cs	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	je	
Client ID: LCSS	Batch ID: 13	3966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis Date: 7	/1/2014	5	SeqNo: 5	68838	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29 5.0	25.00	0	114	71.7	134		- V	
Surr: BFB	1100	1000		106	80	120			
Sample ID 1406D41-001AMS	SampType: M	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID: BatchQC	Batch ID: 13	3966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis Date: 7	/1/2014	8	SeqNo: 5	68844	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	32 4.9	24.53	0	130	71.8	132			
Surr: BFB	1200	981.4		118	80	120			
Sample ID 1406D41-001AMSI	SampType: M	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	141
Client ID: BatchQC	Batch ID: 13	966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis Date: 7	/1/2014	S	SeqNo: 5	68845	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sasoline Range Organics (GRO)	30 4.9	24.51	0	121	71.8	132	7.31	20	
Surr: BFB	1000	980.4		104	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDImit
- 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
- Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1406D42

07-Jul-14

Client:

Blagg Engineering

Project:

GCU 207E

Sample ID MB-13966	Samp	Type: ME	BLK	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: PBS	Bato	h ID: 13	966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis I	Date: 7/	/1/2014	5	SeqNo: 5	68870	Units: mg/F	(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		110	80	120			
Sample ID LCS-13966	Samp	Type: LC	s	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Bato	h ID: 13	966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis I	Date: 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-Bromofluorobenzene	1.2		1.000		118	80	120			
Sample ID 1406D41-002AM	S Samp	Type: MS	3	Tes	tCode: E	PA Method	8021B: Volat	tiles		
Client ID: BatchQC		h ID: 13		F	RunNo: 1	9616				
	motors.						11000			

Sample ID 1406D41-002AMS	Samp	Type: MS	3	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batcl	h ID: 13	966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis D	Date: 7/	1/2014	5	SeqNo: 5	68878	Units: mg/F	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	0.9940	0	111	77.4	142			
Toluene	1.1	0.050	0.9940	0.007807	108	77	132			
Ethylbenzene	1.1	0.050	0.9940	0	110	77.6	134			
Xylenes, Total	3.3	0.099	2.982	0.01174	110	77.4	132			
Surr: 4-Bromofluorobenzene	1.1		0.9940		112	80	120			

Sample ID 1406D41-002AN	ISD SampT	ype: MS	SD	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: BatchQC	Batch	n ID: 13	966	F	RunNo: 1	9616				
Prep Date: 6/30/2014	Analysis D	ate: 7/	1/2014	5	SeqNo: 5	68879	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.050	0.9970	0	117	77.4	142	5.34	20	
Toluene	1.1	0.050	0.9970	0.007807	112	77	132	3.98	20	
Ethylbenzene	1.2	0.050	0.9970	0	115	77.6	134	4.90	20	
Xylenes, Total	3.4	0.10	2.991	0.01174	114	77.4	132	3.48	20	
Surr: 4-Bromofluorobenzene	1.1		0.9970		112	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 87109

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

Sample Log-In Check List

BLAGG Client Name: Work Order Number: 1406D42 RcptNo: 1 Received by/date: Logged By: 6/28/2014 6:45:00 AM Lindsay Mangin Completed By: Lindsay Mangin 6/28/2014 9:21:19 AM A 06/30/14 Reviewed By: Chain of Custody 1 Custody seals intact on sample bottles? Not Present ✔ Not Present 12. Is Chain of Custody complete? Yes V No 3. How was the sample delivered? Courier Log In 4. Was an attempt made to cool the samples? No NA 5. Were all samples received at a temperature of >0° C to 6.0°C No NA Sample(s) in proper container(s)? No 7. Sufficient sample volume for indicated test(s)? No 8. Are samples (except VOA and ONG) properly preserved? No Yes 9. Was preservative added to bottles? No NA Yes No VOA Vials V 10.VOA vials have zero headspace? Yes No 11. Were any sample containers received broken? Yes No # of preserved bottles checked for pH: 12. Does paperwork match bottle labels? No Yes (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? 13. Are matrices correctly identified on Chain of Custody? No 14. Is it clear what analyses were requested? No Checked by: 15. Were all holding times able to be met? Yes V No (If no, notify customer for authorization.) Special Handling (if applicable) 16. Was client notified of all discrepancies with this order? Yes NA V No Person Notified: Date: By Whom: Via: eMail Phone In Person Fax Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 2.2 Good Yes

C	hain-	-of-Cu	stody Record	Turn-Around	Time:	July 2, 2014	HALL ENVIRONMENTAL					AI									
Client:	BIAC	F. F.	HWEERING INC	☐ Standard	Rush			CHARLES AND ADDRESS OF THE PARTY OF THE PART		- 191-									TO		,
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	BLOOM	MEIFELD	NM 87413	Project #:						5-34						345-					
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email o		_	_	Project Mana	ger:		_	lly)	0					(4)						T	\Box
QA/QC	Package:		☐ Level 4 (Full Validation)	J	BLAGE		s (8021)	(Gas only)	RO (MARO)			SIMS)		PO4,SC	PCB's						
Accredi	itation	□ Othe	er		,∆VAYes	EL-No		+ TPH	0	418.1)	04.1)	8270		3,NO2	3 / 8082		(A)	1.1			or N)
□ EDD	(Type)_			Sample Tem	erature:	49 + 400	H	BE	(GRO	4 bc	od 5	0 or	stals	N,	ides	8	9	DE			3
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX LAN	BTEX + MTB	TPH 8015B	TPH (Method	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anions (F,CI,NO3,NO2,PO4,SO4)	8081 Pesticides / 8082	8260B (VOA)	8270 (Semi-VOA)	CHLORDE			Air Bubbles (Y
26/14	1340	SOIL	HA-507.1-7.6	402×1	COOL	-001	X		X									X			
u	1405	1(HA-6@ 6.0-7.2	. !(1(-002	X		X									X			
1(1415	10	HA-704.0'-4.4'	· t(1(-003	X		X									X			
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V	1457	11	HA-9C6.0-7.1	Ч	1(-005	X		×									X			
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11	1526	11	HA-11@ 4.5-5.2	ų	u/	-007	×		×									×		-	
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Date: 27/14	Time:	Relinquish	led by: 1 Blogg	Received by:	5	Date Time	Rei	nark		BILL			7)	.0	21			4		_
Date:	Time:	Reinquish	ed by:	Received by:		Date Time			4	BAY	lac	<i>t</i> :	J	EF		PE	GE	~	Ł		1



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

June 28, 2016

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199 FAX (505) 632-3903

RE: GCU 207E

OrderNo.: 1606A50

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 5 sample(s) on 6/17/2016 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1606A50

Date Reported: 6/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-101(4.0'-6.0')

Project: GCU 207E

Collection Date: 6/16/2016 9:36:00 AM

Lab ID: 1606A50-001

Matrix: SOIL

Received Date: 6/17/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	6/22/2016 11:40:09 PM	26020
EPA METHOD 8015M/D: DIESEL RA	ANGE ORGANICS	3				Analyst:	JME
Diesel Range Organics (DRO)	770	9.6		mg/Kg	1	6/23/2016 2:29:52 PM	25944
Surr: DNOP	101	70-130		%Rec	1	6/23/2016 2:29:52 PM	25944
EPA METHOD 8015D: GASOLINE F	RANGE					Analyst:	RAA
Gasoline Range Organics (GRO)	21	9.9		mg/Kg	2	6/25/2016 6:53:02 PM	25945
Surr: BFB	201	80-120	S	%Rec	2	6/25/2016 6:53:02 PM	25945
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.050		mg/Kg	2	6/25/2016 6:53:02 PM	25945
Toluene	ND	0.099		mg/Kg	2	6/25/2016 6:53:02 PM	25945
Ethylbenzene	ND	0.099		mg/Kg	2	6/25/2016 6:53:02 PM	25945
Xylenes, Total	ND	0.20		mg/Kg	2	6/25/2016 6:53:02 PM	25945
Surr: 4-Bromofluorobenzene	97.9	80-120		%Rec	2	6/25/2016 6:53:02 PM	25945

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 1 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606A50

Date Reported: 6/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-102(5.0'-6.9')

Project: GCU 207E

Collection Date: 6/16/2016 9:47:00 AM

Lab ID: 1606A50-002

Matrix: SOIL

Received Date: 6/17/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst:	LGT
Chloride	ND	30		mg/Kg	20	6/23/2016 12:42:13 AM	26020
EPA METHOD 8015M/D: DIESEL RAI	NGE ORGANICS					Analyst:	JME
Diesel Range Organics (DRO)	390	9.3		mg/Kg	1	6/23/2016 3:19:43 PM	25944
Surr: DNOP	104	70-130		%Rec	1	6/23/2016 3:19:43 PM	25944
EPA METHOD 8015D: GASOLINE RA	NGE					Analyst:	RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2016 5:41:18 AM	25945
Surr: BFB	131	80-120	S	%Rec	1	6/25/2016 5:41:18 AM	25945
EPA METHOD 8021B: VOLATILES						Analyst:	RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2016 5:41:18 AM	25945
Toluene	ND	0.050		mg/Kg	1	6/25/2016 5:41:18 AM	25945
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2016 5:41:18 AM	25945
Xylenes, Total	ND	0.099		mg/Kg	1	6/25/2016 5:41:18 AM	25945
Surr: 4-Bromofluorobenzene	96.7	80-120		%Rec	1	6/25/2016 5:41:18 AM	25945

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 2 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606A50

Date Reported: 6/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-103(5.4'-7.3')

Project: GCU 207E

Collection Date: 6/16/2016 10:03:00 AM

Lab ID: 1606A50-003

Matrix: SOIL

Received Date: 6/17/2016 7:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	LGT
Chloride	ND	30		mg/Kg	20	6/23/2016 12:54:38 AM	26020
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst	JME
Diesel Range Organics (DRO)	390	9.6		mg/Kg	1	6/23/2016 4:03:12 PM	25944
Surr: DNOP	99.7	70-130		%Rec	1	6/23/2016 4:03:12 PM	25944
EPA METHOD 8015D: GASOLINE RANG	E					Analyst	RAA
Gasoline Range Organics (GRO)	40	4.8		mg/Kg	1	6/25/2016 6:04:44 AM	25945
Surr: BFB	706	80-120	S	%Rec	1	6/25/2016 6:04:44 AM	25945
EPA METHOD 8021B: VOLATILES						Analyst	RAA
Benzene	ND	0.024		mg/Kg	1	6/25/2016 6:04:44 AM	25945
Toluene	ND	0.048		mg/Kg	1	6/25/2016 6:04:44 AM	25945
Ethylbenzene	ND	0.048		mg/Kg	1	6/25/2016 6:04:44 AM	25945
Xylenes, Total	0.12	0.096		mg/Kg	1	6/25/2016 6:04:44 AM	25945
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	6/25/2016 6:04:44 AM	25945

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 3 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606A50

Date Reported: 6/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-104(5.0'-5.8')

Project: GCU 207E

Collection Date: 6/16/2016 10:16:00 AM

Lab ID: 1606A50-004

Matrix: SOIL

Received Date: 6/17/2016 7:45:00 AM

Result	PQL Qua	l Units	DF	Date Analyzed	Batch
				Analyst	LGT
ND	30	mg/Kg	20	6/23/2016 1:07:02 AM	26020
NGE ORGANICS	3			Analyst	JME
65	9.6	mg/Kg	1	6/23/2016 3:14:10 PM	25944
99.6	70-130	%Rec	1	6/23/2016 3:14:10 PM	25944
ANGE				Analyst	RAA
ND	4.8	mg/Kg	1	6/25/2016 6:28:13 AM	25945
115	80-120	%Rec	1	6/25/2016 6:28:13 AM	25945
				Analyst	RAA
ND	0.024	mg/Kg	1	6/25/2016 6:28:13 AM	25945
ND	0.048	mg/Kg	1	6/25/2016 6:28:13 AM	25945
ND	0.048	mg/Kg	1	6/25/2016 6:28:13 AM	25945
ND	0.096	mg/Kg	1	6/25/2016 6:28:13 AM	25945
94.7	80-120	%Rec	1	6/25/2016 6:28:13 AM	25945
	ND NGE ORGANICS 65 99.6 ANGE ND 115 ND ND ND ND	ND 30 NGE ORGANICS 65 9.6 99.6 70-130 ANGE ND 4.8 115 80-120 ND 0.024 ND 0.048 ND 0.048 ND 0.048 ND 0.096	ND 30 mg/Kg NGE ORGANICS 65 9.6 mg/Kg 99.6 70-130 %Rec ANGE ND 4.8 mg/Kg 115 80-120 %Rec ND 0.024 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg ND 0.048 mg/Kg	ND 30 mg/Kg 20 NGE ORGANICS 65 9.6 mg/Kg 1 99.6 70-130 %Rec 1 ANGE ND 4.8 mg/Kg 1 115 80-120 %Rec 1 ND 0.024 mg/Kg 1 ND 0.048 mg/Kg 1	Analyst ND 30 mg/Kg 20 6/23/2016 1:07:02 AM NGE ORGANICS Analyst 65 9.6 mg/Kg 1 6/23/2016 3:14:10 PM 99.6 70-130 %Rec 1 6/23/2016 3:14:10 PM ANGE ND 4.8 mg/Kg 1 6/25/2016 6:28:13 AM 115 80-120 %Rec 1 6/25/2016 6:28:13 AM ND 0.024 mg/Kg 1 6/25/2016 6:28:13 AM ND 0.048 mg/Kg 1 6/25/2016 6:28:13 AM ND 0.096 mg/Kg 1 6/25/2016 6:28:13 AM

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 4 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Lab Order 1606A50

Date Reported: 6/28/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: HA-105(5.7'-7.1')

Project: GCU 207E

Collection Date: 6/16/2016 10:27:00 AM

Lab ID: 1606A50-005

Matrix: SOIL

Received Date: 6/17/2016 7:45:00 AM

Analyses	Result	PQL Qua	l Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	30	mg/Kg	20	6/23/2016 1:19:27 AM	26020
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	;			Analyst	JME
Diesel Range Organics (DRO)	540	9.6	mg/Kg	1	6/23/2016 2:33:06 PM	25944
Surr: DNOP	108	70-130	%Rec	1	6/23/2016 2:33:06 PM	25944
EPA METHOD 8015D: GASOLINE R.	ANGE				Analyst	RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/25/2016 6:51:41 AM	25945
Surr: BFB	104	80-120	%Rec	1	6/25/2016 6:51:41 AM	25945
EPA METHOD 8021B: VOLATILES					Analyst	RAA
Benzene	ND	0.024	mg/Kg	1	6/25/2016 6:51:41 AM	25945
Toluene	ND	0.048	mg/Kg	1	6/25/2016 6:51:41 AM	25945
Ethylbenzene	ND	0.048	mg/Kg	1	6/25/2016 6:51:41 AM	25945
Xylenes, Total	ND	0.096	mg/Kg	1	6/25/2016 6:51:41 AM	25945
Surr: 4-Bromofluorobenzene	94.5	80-120	%Rec	1	6/25/2016 6:51:41 AM	25945

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits Page 5 of 9
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606A50

28-Jun-16

Client:

Blagg Engineering

Project:

GCU 207E

Sample ID MB-26020

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 26020

RunNo: 35114

Prep Date: 6/22/2016

Analysis Date: 6/22/2016

SeqNo: 1086467

Units: mg/Kg

Qual

Analyte

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Chloride

ND

1.5

TestCode: EPA Method 300.0: Anions

Sample ID LCS-26020

Client ID: LCSS

SampType: LCS

Batch ID: 26020

RunNo: 35114

Prep Date:

6/22/2016

Analysis Date: 6/22/2016

SeqNo: 1086468

Units: mg/Kg

Analyte

PQL Result

15.00

%RPD

14

1.5

94.2

90

110

RPDLimit

Qual

Chloride

SPK value SPK Ref Val %REC LowLimit

HighLimit

Page 6 of 9

Qualifiers:

Value exceeds Maximum Contaminant Level.

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

D Sample Diluted Due to Matrix

% Recovery outside of range due to dilution or matrix

RPD outside accepted recovery limits R

Analyte detected in the associated Method Blank

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Detection Limit Sample container temperature is out of limit as specified

Value above quantitation range

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606A50

28-Jun-16

Client:

Blagg Engineering

Project:

GCU 207E

Sample ID MB-25944	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batch I	D: 25	944	F	RunNo: 3	5116				
Prep Date: 6/20/2016	Analysis Da	te: 6/	23/2016	\$	SeqNo: 1	086562	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	8.8		10.00		88.1	70	130			
Sample ID LCS-25944	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: LCSS	Batch I	D: 25	944	F	RunNo: 3	5116				
Prep Date: 6/20/2016	Analysis Da	te: 6/	23/2016	8	SeqNo: 1	086657	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	10	50.00	0	75.2	62.6	124			
Surr: DNOP	4.4		5.000		87.1	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 7 of 9

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#: 1606A50

28-Jun-16

Client:

Blagg Engineering

Project:

GCU 207E

Project: GC	U 207E	
Sample ID MB-25945	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 25945	RunNo: 35048
Prep Date: 6/20/2016	Analysis Date: 6/21/2016	SeqNo: 1084262 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GR Surr: BFB	0) ND 5.0 1100 1000	105 80 120
Sample ID LCS-25945	C SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 25945	RunNo: 35048
Prep Date:	Analysis Date: 6/21/2016	SeqNo: 1084263 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Sasoline Range Organics (GR	0) 25 5.0 25.00	0 99.4 80 120
Surr: BFB	1200 1000	117 80 120
Sample ID 5ML-RB	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: R35158	RunNo: 35158
Prep Date:	Analysis Date: 6/24/2016	SeqNo: 1087655 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	970 1000	97.3 80 120
Sample ID 2.5NG GRO	LCS SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: R35158	RunNo: 35158
Prep Date:	Analysis Date: 6/24/2016	SeqNo: 1088007 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1100 1000	113 80 120
Sample ID LCS-26055	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS	Batch ID: 26055	RunNo: 35174
Prep Date: 6/24/2016	Analysis Date: 6/25/2016	SeqNo: 1088117 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: BFB	1100 1000	107 80 120
Sample ID MB-26055	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range
Client ID: PBS	Batch ID: 26055	RunNo: 35174
Prep Date: 6/24/2016	Analysis Date: 6/25/2016	SeqNo: 1088118
Analyte		SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
a mary to	970 1000	97.4 80 120

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

Page 8 of 9

P Sample pH Not In Range

RL Reporting Detection Limit

W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

WO#:

1606A50 28-Jun-16

Client:

Blagg Engineering

Sample ID LCS-25945	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batc	h ID: 25	945	F	RunNo: 3	5158				
Prep Date: 6/20/2016	Analysis [Date: 6/	24/2016	5	SeqNo: 1	088034	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	98.7	75.3	123		4	
Toluene	0.98	0.050	1.000	0	98.1	80	124			
Ethylbenzene	1.0	0.050	1.000	0	100	82.8	121			
(ylenes, Total	3.0	0.10	3.000	0	99.4	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			
Sample ID MB-25945	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	h ID: 25	945	F	RunNo: 3	5158				
Prep Date: 6/20/2016	Analysis [Date: 6/	25/2016	8	SeqNo: 10	088035	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
oluene	ND	0.050								
thylbenzene	ND	0.050								
(ylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			
Sample ID LCS-26055	SampT	Type: LC	s	Tes	tCode: EF	A Method	8021B: Volati	iles		
Client ID: LCSS	Batch	h ID: 260	055	F	RunNo: 3	5174				
Prep Date: 6/24/2016	Analysis D	Date: 6/2	25/2016	S	SeqNo: 10	088135	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	80	120			
Sample ID MB-26055	SampT	уре: МЕ	LK	Tes	Code: EF	A Method	8021B: Volati	iles		
Client ID: PBS	Batch	n ID: 260	055	R	RunNo: 38	5174				
Prep Date: 6/24/2016	Analysis D	Date: 6/2	25/2016	S	SeqNo: 10	088136	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.94		1.000		94.4	80	120			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits

Page 9 of 9

- P Sample pH Not In Range
- Reporting Detection Limit
- Sample container temperature is out of limit as specified



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

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: BLAGG	Work Order Number:	1606/	A50		RcptNo:	1
Received by/date:	06/17/16					
Logged By: Lindsay Mangin	6/17/2016 7:45:00 AM			Janahy Hongo		
Completed By: Lindsay Mangin	6/20/2016 6:03:17 AM			Janely Hoffe		
Reviewed By:	06/20/16					i
Chain of Custody	0 4/20/10					
1. Custody seals intact on sample bottles?		Yes		No 🗆	Not Present	
2. Is Chain of Custody complete?		Yes	*	No 🗌	Not Present	
3. How was the sample delivered?		Cour	ier			
<u>Log In</u>						
4. Was an attempt made to cool the samp	les?	Yes	*	No 🗌	NA 🗌	
5. Were all samples received at a tempera	ture of >0° C to 6.0°C	Yes	•	No 🗆	NA 🗆	
6. Sample(s) in proper container(s)?		Yes	of the second	No 🗌		
7. Sufficient sample volume for indicated to	est(s)?	Yes	*	No 🗌		
8. Are samples (except VOA and ONG) pro	operly 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 b	roken?	Yes		No 🗹	# of preserved	
				w D	bottles checked	
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes		No L	for pH: (<2.0	or >12 unless noted)
13. Are matrices correctly identified on Chair		Yes		No 🗌	Adjusted?	
14. Is it clear what analyses were requested	?	Yes	*	No 🗆		
15. Were all holding times able to be met?		Yes		No 🗌	Checked by:	
(If no, notify customer for authorization.)						
Special Handling (if applicable)						
16. Was client notified of all discrepancies w	vith this order?	Yes		No 🗌	NA 🖈	
Person Notified:	Date:					1
By Whom:	Via:	eMa	ail [Phone Fax	In Person	i
Regarding:	AND THE RESERVE OF THE PARTY OF	Civi	A 11	Thone Than	_ III T GISON	i e
Client Instructions:		-	-			
17. Additional remarks:						1
18. Cooler Information Cooler No Temp °C Condition	Seal Intact Seal No S	Seal D	ate	Signed By		
1 4.3 Good	Yes			3547		
	The state of the s					

Chain-of-Custody Record			Turn-Around					10		E	MV	TE	20	NIR	AF	NT	AI				
BLAGG ENGINEERING ailing Address:				Project Name: GCU ZOTE Project #:				ANALYSIS LABORATORY www.hallenvironmental.com													
								4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107													
										13	A	naly	ysis	Req	uest	1	10	No.	F		
nall or Fax#:				Project Manager:				Q		1			04)								
VQC Package: Standard □ Level 4 (Full Validation)				J. BLAGG				30/和			SIMS)		PO4,S	PCB's						*	
NELAP Other				Sampler: J. BLAG6 On Ice: AYes P No			+ TPH	-	18.1)	04.1)	8270 8		3,NO2	1 8082		A)				or N	
EDD (Type)			Sample Temperature: 43				BE	(G	4 pc	od 5	0 or	stals	N,K	ides	A)	9	E			ح	
Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO.	BTEX +-14	+	TPH 8015B	TPH (Metho	EDB (Metho	PAH's (831	RCRA 8 Me	Anions (F,C	8081 Pestic	8260B (VO)	8270 (Semi	CHUBRI			Air Bubbles (Y or N)	
0936	SOIL	HA-101(4.0'-6.0')	HOZXI	COOL	* * * * * * * * * * * * * * * * * * * *	X	- 9	×									×				
0947	11		11	E)	-002	×		x									x				
1003	11		и	CI	The same of the sa	X		×									×				
1016	14		ч	ц		×		×									×				
1027	ţ1	HA-105(5.7'-7.1')	14	1(-005	×		×									X				
																			+		
																			1		
																			\perp		
Time: (4)5 Time:	24	1 Blogg	Received by:	nes	Date Time Date Time Date Time	Ren	Remarks: BILL BP CONTACT: STEVE MOSCAL VID: VDRINKWJA1														
	BPA BLAG Address #: SC r Fax#: Package: dard itation AP (Type) Time 0936 0947 1003 1016 1027	BPAMERIC BLAGL ENGN Address: #: \$05-32 r Fax#: Package: dard ftation AP	BP AMERICA BLAGG ENGINEERING Address: #: \$05-320-1183 r Fax#: Package: dard	BP AMERICA BLAGG ENGINEERING Address: #: \$05-320-1183 r Fax#: Package: dard	Standard	Standard	BP America	BP Anerica	BP Rush Project Name: GCU ZOTE A901 H Tel. 50 Sample: J. BLAGG BLAGG	BP America	BP ADERICA Project Name: GCU 207E ANA Ana	BP America Rush BLAG ENGWERIVE ANAL Www.hal Address: GCU 207E Www.hal Aspoil Hawkins NE - Tel. 505-345-3975 Text: Project #: Tel. 505-345-3975 Text: Project Manager: J. BLAGG Black Golden Black Gol	### So = 3 ZO - 1 \ 8 3	Address: Project Name: GCU 207E Www.hallenviron Address: Project Name: GCU 207E Www.hallenviron Address: Project Manager: Frax#: Project Manager: J. BLAGG Sampler: J. Sampler: J. Sampler: J. BLAGG Sampler: J. Sam	Standard	Remarks: Remarks:	## SO5-3ZO-1\23 Project ## Project Manager: ## SO5-3ZO-1\23 Project Manager: ## Package: ## Project Manager: ## Project Manager: ## Package: ## Package: ## Project Manager: ## Package: ## Package:	## HALL ENVIRONME ## ANALYSIS LABORA **Www.hallenvironmental.com** ## Address: Project Manager: Proj	Standard	Standard	