OIL CONS. DIV DIST. 3

JUL 08 2016

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: BP	Contact: Jeff Peace
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9479
Facility Name: Gallegos Canyon Unit 207E	Facility Type: Natural gas well

Surface Owner: Federal	Mineral Owner: Federal	API No. 30045~~11632~~ 23897

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County: San Juan
D	14	28N	12W	950	North	1,070	West	

Latitude 36.6668701 **Longitude** -108.0863876

NATURE OF RELEASE

Type of Release: unknown	Volume of Release: unknown	Volume Recovered: none
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: April 11, 2014 – 11:00 AM
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* During the stripping of a well for recompletion, hydrocarbon impacts were discovered beneath a 95 bbl BGT. The impacts are believed to be historical and are likely impacts of a former earthen pit location. Bedrock sandstone was encountered at 8-12' below ground surface during the remedial excavation. The excavation was ceased due to production equipment in the vicinity.

Describe Area Affected and Cleanup Action Taken.* The initial remedial excavation measured 15'x12'x6.5' deep. The excavation was advanced another 5 feet in all direction with a total of approximately 15 cubic yards of soil removed from the site. The remedial excavation was halted due to the recompleted well being put back into service. The remaining impacts were delineated via the advancement of 17 soil boring via hand auguring. 11 of the 17 soil borings were completed as in-situ, chemical injection points for the application of hydrogen peroxide. After the application of the hydrogen peroxide was complete, 5 additional soil borings were advance for confirmation laboratory samples. The confirmation samples demonstrated the effectiveness of the in-situ chemical treatment, with all results below the site closure standards. Field reports, site diagrams, photos and laboratory results are attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:	
Printed Name: Steve Moskal		
Title: Field Environmental Coordinator	Approval Date: 8/9/16	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached ☐
Date: June 30, 2016 Phone: 505-326-9497		

* Attach Additional Sheets If Necessary #NCS1411151357

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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.

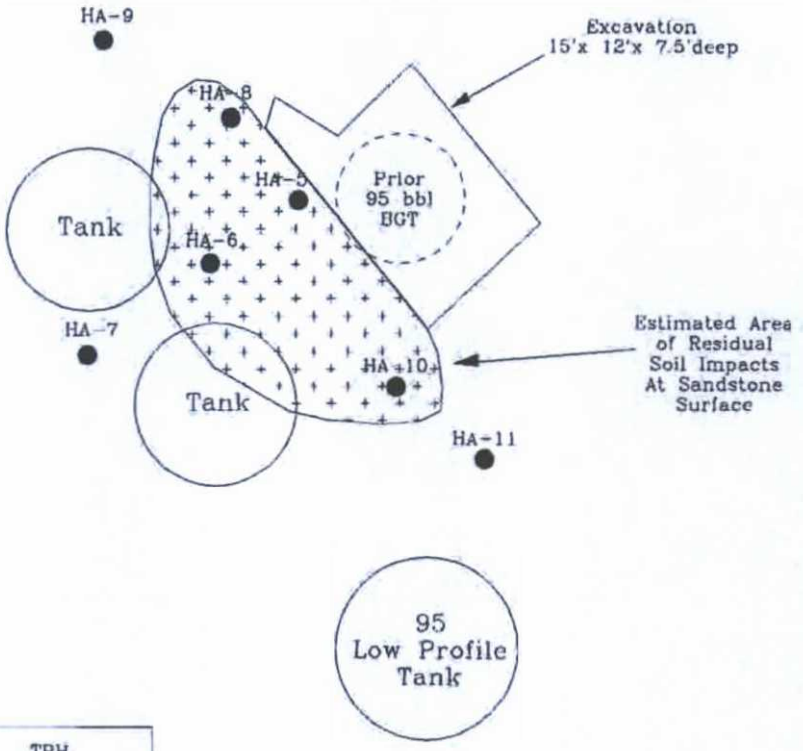
May 20, 2016 — Concentrated hydrogen peroxide (34%) injected into each of the 11 selected treatment points, with 1 gallon used in each well.

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 ID	Sample Depth (feet)	Field OVM (ppm)	TPH (GRO) (mg/KG)	TPH (DRO) (mg/Kg)	TPH (GRO+DRO) (mg/Kg)	BTEX Total (mg/Kg)	Chloride (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



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

LEGEND

N

HA-4 Sample Location

0 15 30 Feet

SITE DIAGRAM

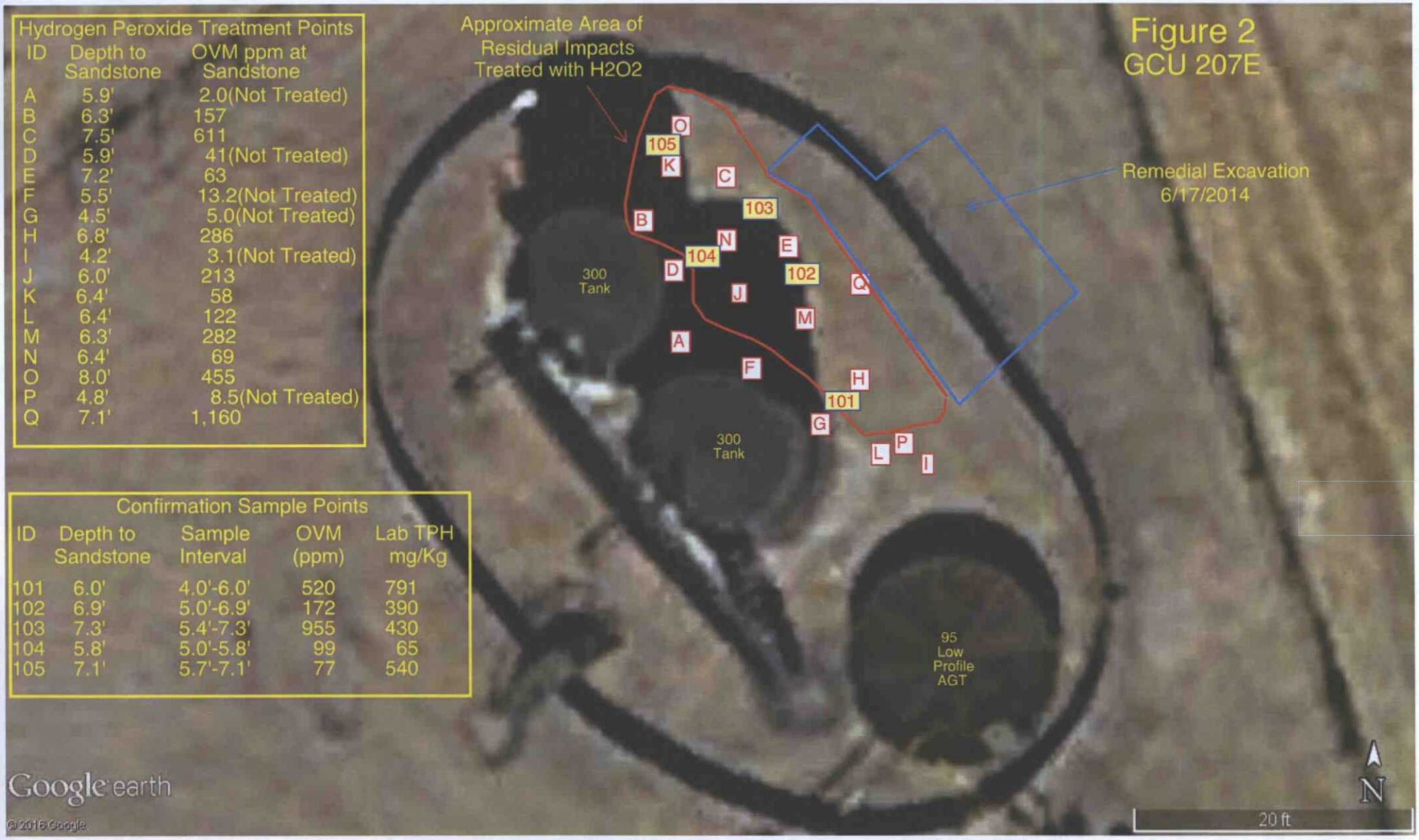
BP ** GCU 207E ** (D)14-T28N-R12W

BLAGG ENGINEERING, INC.

DATE: 6/2014 | FIGURE 1 | BY: JCB

P.O. BOX 87, BLOOMFIELD, NM
PHONE: (505)632-1199

Figure 2
GCU 207E



Hydrogen Peroxide Treatment Points

ID	Depth to Sandstone	OVM ppm at Sandstone
A	5.9'	2.0(Not Treated)
B	6.3'	157
C	7.5'	611
D	5.9'	41(Not Treated)
E	7.2'	63
F	5.5'	13.2(Not Treated)
G	4.5'	5.0(Not Treated)
H	6.8'	286
I	4.2'	3.1(Not Treated)
J	6.0'	213
K	6.4'	58
L	6.4'	122
M	6.3'	282
N	6.4'	69
O	8.0'	455
P	4.8'	8.5(Not Treated)
Q	7.1'	1,160

Confirmation Sample Points

ID	Depth to Sandstone	Sample Interval	OVM (ppm)	Lab TPH 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

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
NMOCD RELEASE CLOSURE STANDARDS (soils) -				**100**	**1,000**	**10**	**50**	

Notes:

OVM -	Organic vapor meter or photo-ionization detector (PID).	ppm -	Parts per million.
TPH -	Total petroleum hydrocarbons by US EPA Method 8015B.	mg/Kg -	Milligram per kilogram.
BTEX -	Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.	ND -	Not detected at Reporting Limit.
NMOCD -	New Mexico Oil Conservation Division.	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

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

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

API #: 3004523897
TANK ID (if applicble): A

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION [OTHER:]
REMEDIATION OF 95 SW/DB BGT - INITIALLY SAMPLED ON 03/31/14

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: GCU # 207E
DATE STARTED: 06/17/14
DATE FINISHED:
QUAD/UNIT: D SEC: 14 TWP: 28N RNG: 12W PM: NM CNTY: SJ ST: NM
1/4 -1/4/FOOTAGE: 950'N / 1,070'W NW/NW LEASE TYPE: [FEDERAL] / STATE / FEE / INDIAN
LEASE #: SF078905 PROD. FORMATION: DK CONTRACTOR: CROSSFIRE MBF - F. ARAGON
ENVIRONMENTAL SPECIALIST(S): JCB

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.66689 X 108.08651 GL ELEV.: 5,702'

		GPS COORD.	DISTANCE/BEARING FROM W.H.
1)	95 BGT (SW/DB)	36.66718 X 108.08597	182', N55E
2)			
3)			
4)			

SAMPLING DATA:

CHAIN OF CUSTODY RECORD(S) # OR LAB USED: HALL

	SAMPLE ID	SAMPLE DATE	SAMPLE TIME	LAB ANALYSIS	OVM READING (ppm)
1)	HA1 @ 7.5' (95)	06/17/14	1106	NA	449
2)	TH1 @ 8' (95)	06/17/14	1119	8015B / 8021B / 300.0 (Cl)	99.5
3)					
4)					

SOIL DESCRIPTION:

SOIL TYPE: [SAND / SILTY SAND] / SILT / SILTY CLAY / CLAY / GRAVEL [OTHER] BEDROCK SANDSTONE @ 7'-7.5' BELOW GRADE - VERY HARD, COMPETENT.
SOIL COLOR: MOSTLY DARK YELLOWISH ORANGE
COHESION (ALL OTHERS): NON COHESIVE [SLIGHTLY COHESIVE] / COHESIVE / HIGHLY COHESIVE
CONSISTENCY (NON COHESIVE SOILS): LOOSE [FIRM] / DENSE / VERY DENSE
MOISTURE: DRY [SLIGHTLY MOIST] / MOIST / WET / SATURATED / SUPER SATURATED
SAMPLE TYPE: [GRAB] / COMPOSITE - # OF PTS. NA
DISCOLORATION/STAINING OBSERVED: [YES] / NO EXPLANATION - VARYING SHADES OF GRAY BETWEEN 6 - 7.5 FEET BELOW GRADE.
PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
HC ODOR DETECTED: [YES] / NO EXPLANATION - STRONG FROM OBVIOUS DISCOLORED SOIL NEAR & WITHIN BEDROCK, SLIGHTLY WITHIN SAMPLE FROM TH1.
ANY AREAS DISPLAYING WETNESS: YES / [NO] EXPLANATION -

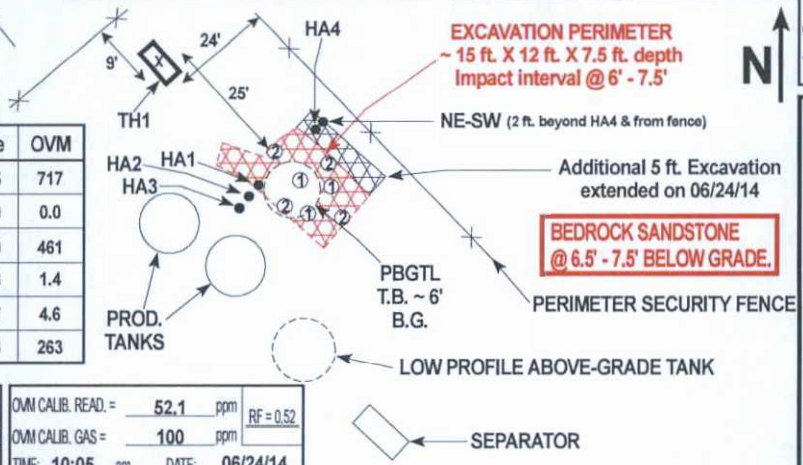
SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: YES / [NO] EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED : [YES] / NO EXPLANATION: DISCOLORATION AND HYDROCARBON ODOR.
EQUIPMENT SET OVER RECLAIMED AREA: YES / [NO] EXPLANATION -
OTHER: SIDEWALLS CONTAIN IMPACTED SOIL APPROX. 1 FT. THICK AT BOTTOMS WITHIN NE, SW, & NW AREA ONLY. TEST HOLE ADVANCED DID NOT REVEAL ANY DISCOLORATION. HAND AUGER (HA) BORINGS SPACED 3 FT. APART & FROM EXCAVATION PERIMETERS. 4 GALLONS H2O2 SPREAD THROUGHOUT EXCAVATION BOTTOM.
SOIL IMPACT DIMENSION ESTIMATION: 15 ft. X 18 ft. X 1.5 ft. IMPACTED SOIL ESTIMATION (Cubic Yards) : 15
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOCD TPH CLOSURE STD: 1,000 ppm

SITE SKETCH

~~BGT Located : off / on site~~

PLOT PLAN circle: attached



Sample ID	Date	Time	OVM
3PC-EB @ 7.5' (95)	06/20/14	0855	717
4PC-SW @ 3' - 6' (95)	06/20/14	0910	0.0
HA3 @ 7' (95)	06/20/14	0930	461
HA4 @ 5.75' (95)	06/20/14	0958	1.4
NE-SW @ 5' (95)	06/24/14	0957	4.6
NE-SW @ 7' (95)	06/24/14	0958	263

OVM CALIB. READ. = 52.5 ppm RF = 0.52
OVM CALIB. GAS = 100 ppm
TIME: 11:32 am/pm DATE: 06/17/14

OVM CALIB. READ. = 52.3 ppm RF = 0.52
OVM CALIB. GAS = 100 ppm
TIME: 9:15 am DATE: 06/20/14

OVM CALIB. READ. = 52.1 ppm RF = 0.52
OVM CALIB. GAS = 100 ppm
TIME: 10:05 am DATE: 06/24/14

MISCELL. NOTES

WO: N15464952
PO #:
PK: ZDCS01GEN1
PJ #:
Permit date(s):
OCD Appr. date(s):

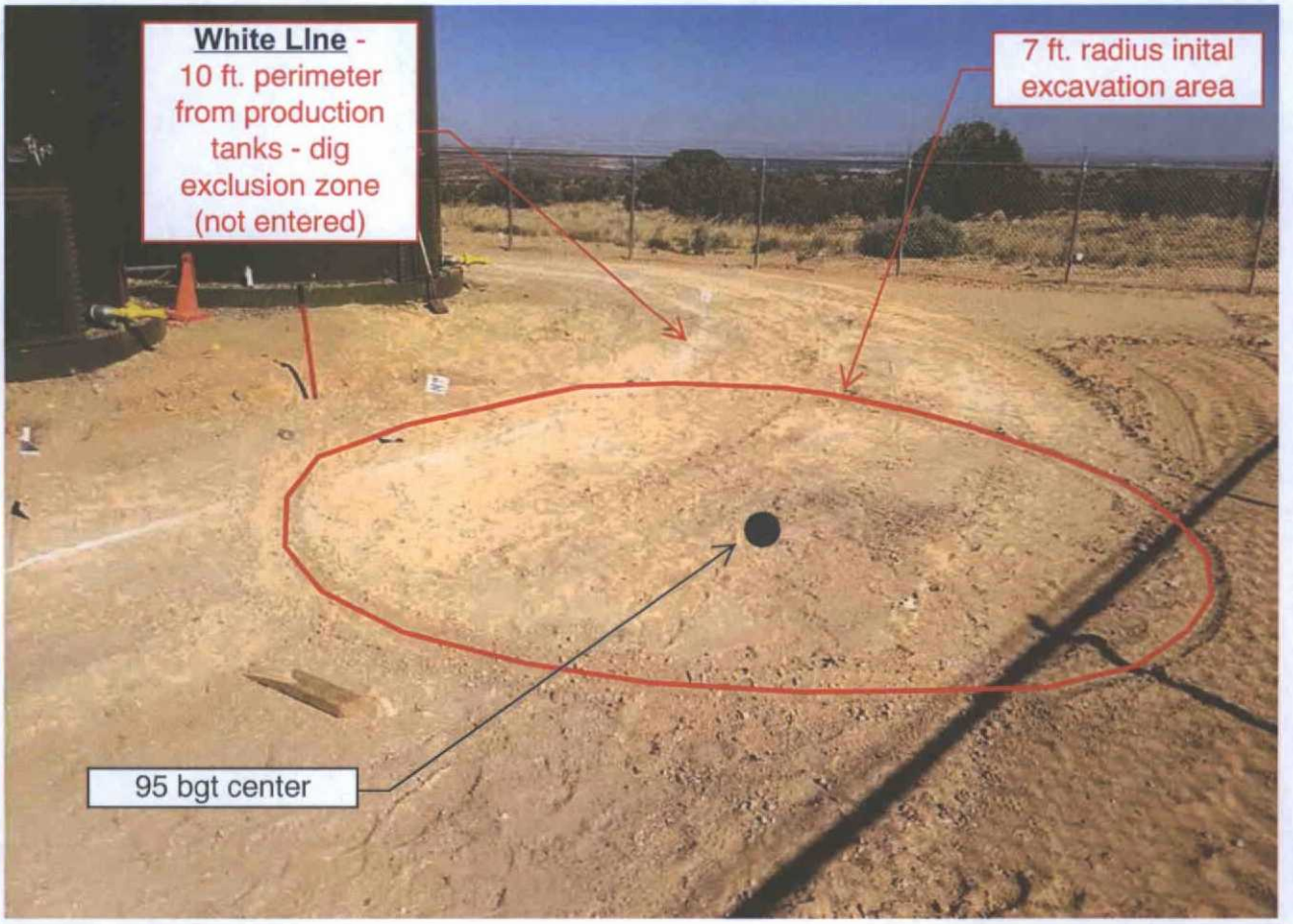
Tank ID	OVM = Organic Vapor Meter ppm = parts per million
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N
	BGT Sidewalls Visible: Y / N

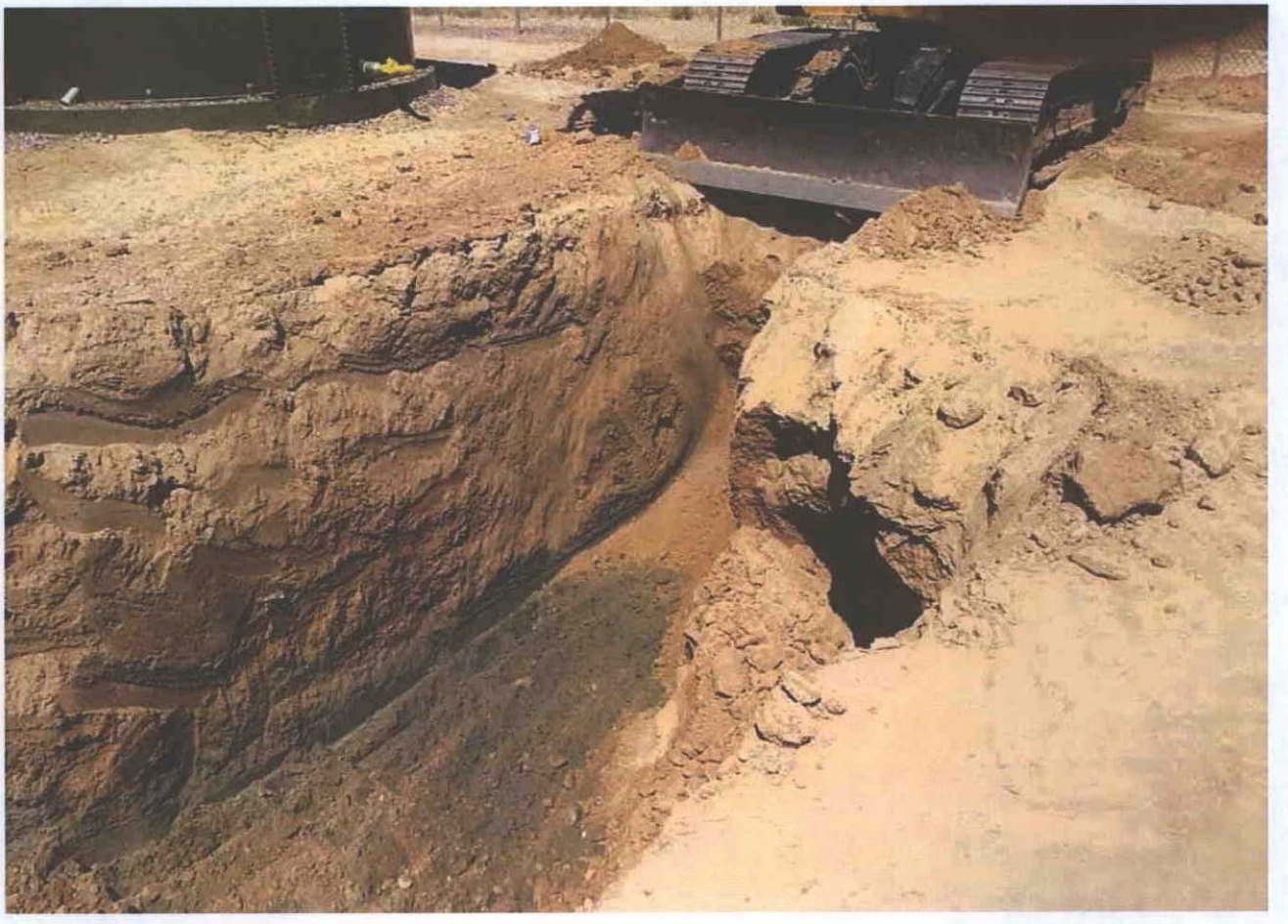
Magnetic declination: 10° E

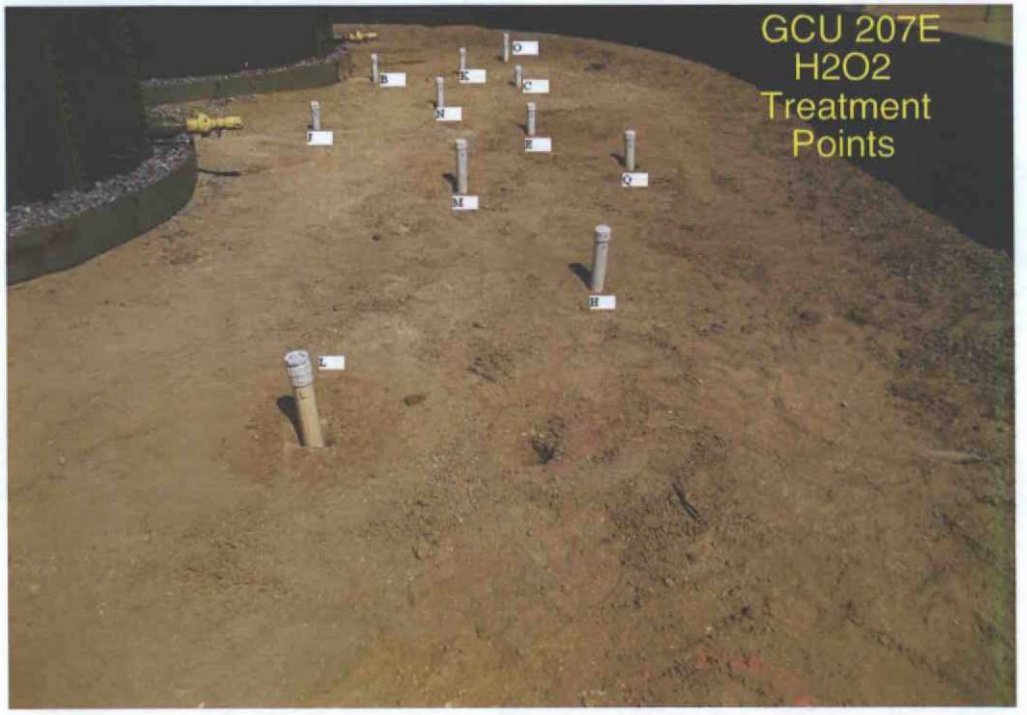
NOTES: BGT = BELOW-GRADE TANK; E.D. = EXCAVATION DEPRESSION; B.G. = BELOW GRADE; B = BELOW; T.H. = TEST HOLE; ~ = APPROX.; W.H. = WELL HEAD; T.B. = TANK BOTTOM; PBGTL = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA - NOT APPLICABLE OR NOT AVAILABLE; SW - SINGLE WALL; DW - DOUBLE WALL; SB - SINGLE BOTTOM; DB - DOUBLE BOTTOM.

NOTES: GOOGLE EARTH IMAGERY DATE: 11/17/2013. ONSITE: 06/17/14, 06/20/14, 06/24/14


BP AMERICA PRODUCTION COMPANY
GALLEGOS CANYON UNIT 207E
API 3004523897 LEASE NMNM78391C
950 FNL 1070 FWL (D) SEC 14 T28N R12W
San Juan County ELEV 5702
LAT 36° 40' 0.840"
LONG 108° 5' 11.436"


White LIne - 10 ft. perimeter from production tanks - dig exclusion zone (not entered)
7 ft. radius inital excavation area
95 bgt center




GCU 207E
H2O2
Treatment
Points
D
B
K
C
N
J
E
Q
M
H
L

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1406820**
Date Reported: **6/20/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU # 207 E
Lab ID: 1406820-001

Client Sample ID: TH1 @ 8' (95)
Collection Date: 6/17/2014 11:19:00 AM
Matrix: MEOH (SOIL) **Received Date:** 6/18/2014 7:40:00 AM

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

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

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406820**

20-Jun-14

Client: Blagg Engineering
Project: GCU # 207 E

Sample ID **MB-13755**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **13755**	RunNo: **19341**
Prep Date: **6/18/2014**	Analysis Date: **6/18/2014**	SeqNo: **559117** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.4		10.00		84.0	57.9	140			

Sample ID **LCS-13755**	SampType: **LCS**	TestCode: **EPA Method 8015D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **13755**	RunNo: **19341**
Prep Date: **6/18/2014**	Analysis Date: **6/18/2014**	SeqNo: **559118** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.5	60.8	145			
Surr: DNOP	4.3		5.000		85.2	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406820**

20-Jun-14

Client: Blagg Engineering

Project: GCU # 207 E

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**	SeqNo: **559936** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406820**

20-Jun-14

Client: Blagg Engineering

Project: GCU # 207 E

Sample ID **MB-13743 MK**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R19352**	RunNo: **19352**
Prep Date:	Analysis Date: **6/18/2014**	SeqNo: **559977** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		102	80	120			

Sample ID **LCS-13743 MK**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19352**	RunNo: **19352**
Prep Date:	Analysis Date: **6/18/2014**	SeqNo: **559979** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.050	1.000	0	96.1	80	120			
Toluene	0.94	0.050	1.000	0	93.5	80	120			
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Sample ID **MB-13743**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **13743**	RunNo: **19352**
Prep Date: **6/17/2014**	Analysis Date: **6/18/2014**	SeqNo: **559985** Units: **%REC**

Analyte	Result	PQL	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: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **13743**	RunNo: **19352**
Prep Date: **6/17/2014**	Analysis Date: **6/18/2014**	SeqNo: **559986** Units: **%REC**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.2		1.000		115	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1406820 RcptNo: 1

Received by/date: 06/18/14

Logged By: Lindsay Mangin 6/18/2014 7:40:00 AM

Completed By: Lindsay Mangin 6/18/2014 8:25:54 AM

Reviewed By: 06/18/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	# 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 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	2.1	Good	Yes			

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client:	BLAGG ENGR. / BP AMERICA
Mailing Address:	P.O. BOX 87
	BLOOMFIELD, NM 87413
Phone #:	(505) 632-1199
email or Fax#:	
QA/QC Package:	☑ Standard ☐ Level 4 (Full Validation)
Accreditation:	☐ NELAP ☐ Other ____
☐ EDD (Type)	____

☐ Standard ☑ Rush SAME DAY

Project Name: GCU # 207E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.1

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1406820	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)		Grab sample	5 pt. composite sample
6/17/14	1119	SOIL	TH1 @ 8' (95)	4 oz. - 1	Cool	-001	✓		✓											✓	

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/17/14	1535		Christine Walker	6/17/14	1535
Date:	Time:	Relinquished by:	Received by:	Date	Time
6/17/14	1725	Christine Walker		06/18/14	0740

Remarks:

BILL DIRECTLY TO BP:

Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N15464952 Paykey: ZDCS01GEN1

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

John Caldwell
Supervisor
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1406A00**
Date Reported: **6/25/2014**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #207E
Lab ID: 1406A00-001

Client Sample ID: 3PC-EB @ 7.5' (95)
Collection Date: 6/20/2014 8:55:00 AM
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 RANGE						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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #207E
Lab ID: 1406A00-002
Matrix: MEOH (SOIL)
Client Sample ID: 4PC-SW @ 3'-6' (95)
Collection Date: 6/20/2014 9:05:00 AM
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)	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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU #207E
Lab ID: 1406A00-003
Matrix: MEOH (SOIL)
Client Sample ID: HA4 @ 5.75' (95)
Collection Date: 6/20/2014 9:58:00 AM
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)	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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **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		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-13840	SampType:	LCS		TestCode:	EPA Method 300.0: Anions				
Client ID:	LCSS	Batch ID:	13840		RunNo:	19468				
Prep Date:	6/23/2014	Analysis Date:	6/23/2014		SeqNo:	563226	Units:	mg/Kg		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.3	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406A00**

26-Jun-14

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406A00**

26-Jun-14

Client: Blagg Engineering
Project: GCU #207E

Sample ID	**MB-13820 MK**	SampType:	**MBLK**		TestCode:	**EPA Method 8015D: Gasoline Range**				
Client ID:	**PBS**	Batch ID:	**R19437**		RunNo:	**19437**				
Prep Date:		Analysis Date:	**6/23/2014**		SeqNo:	**562664**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.1	80	120			

Sample ID	**LCS-13820 MK**	SampType:	**LCS**		TestCode:	**EPA Method 8015D: Gasoline Range**				
Client ID:	**LCSS**	Batch ID:	**R19437**		RunNo:	**19437**				
Prep Date:		Analysis Date:	**6/23/2014**		SeqNo:	**562665**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	91.5	71.7	134			
Surr: BFB	980		1000		98.2	80	120			

Sample ID	**1406A00-002AMS**	SampType:	**MS**		TestCode:	**EPA Method 8015D: Gasoline Range**				
Client ID:	**4PC-SW @ 3'-6' (95)**	Batch ID:	**R19437**		RunNo:	**19437**				
Prep Date:		Analysis Date:	**6/23/2014**		SeqNo:	**562668**	Units:	**mg/Kg**		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.7	23.70	0	80.7	71.8	132			
Surr: BFB	970		947.9		102	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406A00**

26-Jun-14

Client: Blagg Engineering

Project: GCU #207E

Sample ID	**MB-13820 MK**	SampType: **MBLK**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**PBS**	Batch ID: **R19437**		RunNo: **19437**					
Prep Date:		Analysis Date: **6/23/2014**		SeqNo: **562691**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		115	80	120			

Sample ID	**LCS-13820 MK**	SampType: **LCS**		TestCode: **EPA Method 8021B: Volatiles**					
Client ID:	**LCSS**	Batch ID: **R19437**		RunNo: **19437**					
Prep Date:		Analysis Date: **6/23/2014**		SeqNo: **562692**		Units: **mg/Kg**			
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			
Xylenes, Total	3.0	0.10	3.000	0	99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		99.7	80	120			

Qualifiers:

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1406A00 RcptNo: 1

Received by/date: 06/21/2014

Logged By: Ashley Gallegos 6/21/2014 10:00:00 AM

Completed By: Ashley Gallegos 6/21/2014 10:24:37 AM

Reviewed By: 06/21/2014

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
13. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
14. Is it clear what analyses were requested?	Yes ☑	No ☐	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush SAME DAY

Project Name: GCU # 207E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1406A00	BTEX + ~~MTBE~~ + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)		Grab sample	# of pts. composite sample
6/20/14	0855	SOIL	3PC - EB @ 7.5' (95)	4 oz. - 1	Cool	-001	✓		✓									✓			3
6/20/14	0905	SOIL	4PC - SW @ 3' - 6' (95)	4 oz. - 1	Cool	-002	✓		✓									✓			4
6/20/14	0958	SOIL	HA4 @ 5.75' (95)	4 oz. - 1	Cool	-003	✓		✓									✓		✓	

Date	Time	Relinquished by:	Received by:	Date	Time
6/20/14	1550		Christa Walters	6/20/14	1550
6/20/14	1820	Christa Walters		06/21/14	10:00

Remarks:
BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401
Work Order: N15464952 Paykey: ZDCS01GEN1

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 30, 2014

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

RE: GCU # 207E OrderNo.: 1406B24

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 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
4901 Hawkins NE
Albuquerque, NM 87109

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU # 207E
Lab ID: 1406B24-002
Matrix: MEOH (SOIL)
Client Sample ID: NE - SW @ 7' (95)
Collection Date: 6/24/2014 8:58:00 AM
Received Date: 6/25/2014 8:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE 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 RANGE						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/Kg
total 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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **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**	Batch ID:	**13886**	RunNo:	**19526**				
Prep Date:	**6/25/2014**	Analysis Date:	**6/25/2014**	SeqNo:	**565224**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-13886**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**13886**	RunNo:	**19526**				
Prep Date:	**6/25/2014**	Analysis Date:	**6/25/2014**	SeqNo:	**565225**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406B24**

30-Jun-14

Client: Blagg Engineering
Project: GCU # 207E

Sample ID	MB-13880	SampType:	MBLK			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			SeqNo:	563896	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.4		10.00		84.2	57.9	140			

Sample ID	LCS-13880	SampType:	LCS			TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	13880			RunNo:	19466			
Prep Date:	6/25/2014	Analysis Date:	6/25/2014			SeqNo:	563897	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	91.5	68.6	130			
Surr: DNOP	4.1		5.000		82.5	57.9	140			

Sample ID	1406B24-001AMS	SampType:	MS			TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	NE - SW @ 5' (95)	Batch ID:	13880			RunNo:	19466			
Prep Date:	6/25/2014	Analysis Date:	6/25/2014			SeqNo:	564017	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	9.9	49.36	0	95.5	40.1	152			
Surr: DNOP	4.3		4.936		87.9	57.9	140			

Sample ID	1406B24-001AMSD	SampType:	MSD			TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	NE - SW @ 5' (95)	Batch ID:	13880			RunNo:	19466			
Prep Date:	6/25/2014	Analysis Date:	6/25/2014			SeqNo:	564032	Units:	mg/Kg	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.40	0	101	40.1	152	7.25	32.1	
Surr: DNOP	4.7		5.040		94.0	57.9	140	0	0	

Sample ID	MB-13913	SampType:	MBLK			TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	PBS	Batch ID:	13913			RunNo:	19522			
Prep Date:	6/26/2014	Analysis Date:	6/26/2014			SeqNo:	565609	Units:	%REC	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	6.6		10.00		66.4	57.9	140			

Sample ID	LCS-13913	SampType:	LCS			TestCode:	EPA Method 8015D: Diesel Range Organics			
Client ID:	LCSS	Batch ID:	13913			RunNo:	19522			
Prep Date:	6/26/2014	Analysis Date:	6/26/2014			SeqNo:	565610	Units:	%REC	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.1		5.000		61.7	57.9	140			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406B24**

30-Jun-14

Client: Blagg Engineering

Project: GCU # 207E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **R19486**	RunNo: **19486**
Prep Date:	Analysis Date: **6/25/2014**	SeqNo: **564552** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	840		1000		84.1	80	120			

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	Qual
Gasoline 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	Qual
Gasoline 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**
Prep Date:	Analysis Date: **6/25/2014**	SeqNo: **564556** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.30	0	93.1	71.8	132	4.04	20	
Surr: BFB	890		932.0		96.0	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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406B24**

30-Jun-14

Client: Blagg Engineering

Project: GCU # 207E

Sample ID **5ML RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **R19486**	RunNo: **19486**
Prep Date:	Analysis Date: **6/25/2014**	SeqNo: **564562** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		90.7	80	120			

Sample ID **100NG BTEX LCS**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **R19486**	RunNo: **19486**
Prep Date:	Analysis Date: **6/25/2014**	SeqNo: **564563** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1406B24 | RcptNo: 1

Received by/date: 06/25/14

Logged By: Lindsay Mangin 6/25/2014 8:10:00 AM

Completed By: Lindsay Mangin 6/25/2014 8:18:12 AM

Reviewed By: CS 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?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ✓	No	NA
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✓	No	NA
6. Sample(s) in proper container(s)?	Yes ✓	No	
7. Sufficient sample volume for indicated test(s)?	Yes ✓	No	
8. Are samples (except VOA and ONG) properly preserved?	Yes ✓	No	
9. Was preservative added to bottles?	Yes	No ✓	NA
10. VOA vials have zero headspace?	Yes	No	No VOA Vials ✓
11. Were any sample containers received broken?	Yes	No ✓	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✓	No	# 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 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			

Chain-of-Custody Record

Client: BLAGG ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLOOMFIELD, NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☑ Standard ☐ Level 4 (Full Validation)

Accreditation:
☐ NELAP ☐ Other
☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush SAME DAY

Project Name: GCU # 207E

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.5

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1406822	BTEX + ~~MTBE + TMB's~~ (8021B)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride (soil - 300.0 / water - 300.1)		Grab sample	5 pt. composite sample
6/24/14	0957	SOIL	NE - SW @ 5' (95)	4 oz. - 1	Cool	-001	✓		✓									✓		✓	
6/24/14	0958	SOIL	NE - SW @ 7' (95)	4 oz. - 1	Cool	-002	✓		✓									✓		✓	

Date	Time	Relinquished by	Received by	Date	Time
6/24/14	1556		Christy Waets	6/24/14	1556
6/24/14	1930	Christy Waets		06/25/14	0810

Remarks:

BILL DIRECTLY TO BP:
Jeff Peace, 200 Energy Court, Farmington, NM 87401

Work Order: N15464952 Paykey: ZDCS01GEN1

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

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 OrderNo.: 1406D42

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 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
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-001 **Matrix:** SOIL

Client Sample ID: HA-5 @ 7.1'-7.6'
Collection Date: 6/26/2014 1:40:00 PM
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 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 RANGE						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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-002 **Matrix:** SOIL

Client Sample ID: HA-6 @ 6.0'-7.2'
Collection Date: 6/26/2014 2:05:00 PM
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	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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-003 **Matrix:** SOIL

Client Sample ID: HA-7 @ 4.0'-4.4'
Collection Date: 6/26/2014 2:15:00 PM
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)	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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-004 **Matrix:** SOIL

Client Sample ID: HA-8 @ 6.6'-7.7'
Collection Date: 6/26/2014 2:35:00 PM
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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-005 **Matrix:** SOIL

Client Sample ID: HA-9 @ 6.0'-7.1'
Collection Date: 6/26/2014 2:57:00 PM
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)	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 RANGE						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
P	Sample pH greater than 2.
RL	Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-006 **Matrix:** SOIL

Client Sample ID: HA-10 @ 5.7'-6.4'
Collection Date: 6/26/2014 3:14:00 PM
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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1406D42-007 **Matrix:** SOIL

Client Sample ID: HA-11 @ 4.5'-5.2'
Collection Date: 6/26/2014 3:26:00 PM
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)	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 RANGE						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.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
O	RSD is greater than RSDlimit	P	Sample pH greater than 2.
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D42**

07-Jul-14

Client: Blagg Engineering

Project: GCU 207E

Sample ID	**MB-14002**	SampType:	**MBLK**		TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**PBS**	Batch ID:	**14002**		RunNo:	**19637**				
Prep Date:	**7/1/2014**	Analysis Date:	**7/1/2014**		SeqNo:	**569535**	Units:	**mg/Kg**		

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

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.4	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D42**

07-Jul-14

Client: Blagg Engineering

Project: GCU 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	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	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.6	68.6	130			
Surr: DNOP	3.4		5.000		68.8	57.9	140			

Sample ID	1406D41-001AMS	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	1406D41-001AMSD	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	0	111	40.1	152	11.7	32.1	
Surr: DNOP	3.9		4.995		78.8	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- 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

50

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D42**

07-Jul-14

Client: Blagg Engineering

Project: GCU 207E

Sample ID **MB-13966**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568837** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	970		1000		97.4	80	120			

Sample ID **LCS-13966**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568838** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	71.7	134			
Surr: BFB	1100		1000		106	80	120			

Sample ID **1406D41-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568844** Units: **mg/Kg**

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 **1406D41-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **BatchQC**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568845** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline 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.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1406D42**

07-Jul-14

Client: Blagg Engineering
Project: GCU 207E

Sample ID **MB-13966**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568870** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Sample ID **LCS-13966**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568871** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	108	80	120			
Toluene	1.0	0.050	1.000	0	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 **1406D41-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568878** Units: **mg/Kg**

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 **1406D41-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **BatchQC**	Batch ID: **13966**	RunNo: **19616**
Prep Date: **6/30/2014**	Analysis Date: **7/1/2014**	SeqNo: **568879** Units: **mg/Kg**

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: 1406D42 RcptNo: 1

Received by/date: 06/28/14

Logged By: Lindsay Mangin 6/28/2014 6:45:00 AM

Completed By: Lindsay Mangin 6/28/2014 9:21:19 AM

Reviewed By: 06/30/14

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ✔
2. Is Chain of Custody complete?	Yes ✔	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ✔	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ✔	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ✔	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ✔	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ✔	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ✔	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ✔
11. Were any sample containers received broken?	Yes ☐	No ✔	
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ✔	No ☐	# 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 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	2.2	Good	Yes			

Chain-of-Custody Record

Client: BLAGG ENGINEERING INC
BP AMERICA
Mailing Address: P.O. BOX 87
BLOOMFIELD NM 87413
Phone #: 505-320-1183
email or Fax#: —
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Turn-Around Time: By WED July 2, 2014
☐ Standard ☒ Rush _____
Project Name: GCU 207E
Project #:
Project Manager: J. BLAGG
Sampler: J. BLAGG
On Ice: ☒ Yes ☐ No
Sample Temperature: 2.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1406247	BTEX + ~~MTBE~~ + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
6/26/14	1340	SOIL	HA-5 @ 7.1'-7.6'	4oz x1	COOL	-001	X		X									X				
"	1405	"	HA-6 @ 6.0'-7.2'	"	"	-002	X		X									X				
"	1415	"	HA-7 @ 4.0'-4.4'	"	"	-003	X		X									X				
"	1435	"	HA-8 @ 6.6'-7.7'	"	"	-004	X		X									X				
"	1457	"	HA-9 @ 6.0'-7.1'	"	"	-005	X		X									X				
"	1514	"	HA-10 @ 5.7'-6.4'	"	"	-006	X		X									X				
"	1526	"	HA-11 @ 4.5'-5.2'	"	"	-007	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/27/14	1300	Jeff Blagg		06/28/14	0645
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: BILL BP
PAYKEY: ZDCS01GEN1
contact: JEFF PEACE

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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1606A50**
Date Reported: **6/28/2016**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1606A50-001 **Matrix:** SOIL

Client Sample ID: HA-101(4.0'-6.0')
Collection Date: 6/16/2016 9:36:00 AM
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 RANGE ORGANICS						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 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.

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1606A50-002 **Matrix:** SOIL

Client Sample ID: HA-102(5.0'-6.9')
Collection Date: 6/16/2016 9:47:00 AM
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 RANGE 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 RANGE						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.

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1606A50-003 **Matrix:** SOIL

Client Sample ID: HA-103(5.4'-7.3')
Collection Date: 6/16/2016 10:03:00 AM
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 RANGE						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.

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1606A50-004 **Matrix:** SOIL

Client Sample ID: HA-104(5.0'-5.8')
Collection Date: 6/16/2016 10:16:00 AM
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 1:07:02 AM	26020
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	65	9.6		mg/Kg	1	6/23/2016 3:14:10 PM	25944
Surr: DNOP	99.6	70-130		%Rec	1	6/23/2016 3:14:10 PM	25944
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **RAA**	
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	6/25/2016 6:28:13 AM	25945
Surr: BFB	115	80-120		%Rec	1	6/25/2016 6:28:13 AM	25945
EPA METHOD 8021B: VOLATILES						Analyst: **RAA**	
Benzene	ND	0.024		mg/Kg	1	6/25/2016 6:28:13 AM	25945
Toluene	ND	0.048		mg/Kg	1	6/25/2016 6:28:13 AM	25945
Ethylbenzene	ND	0.048		mg/Kg	1	6/25/2016 6:28:13 AM	25945
Xylenes, Total	ND	0.096		mg/Kg	1	6/25/2016 6:28:13 AM	25945
Surr: 4-Bromofluorobenzene	94.7	80-120		%Rec	1	6/25/2016 6:28:13 AM	25945

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

Qualifiers:

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

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
Project: GCU 207E
Lab ID: 1606A50-005 **Matrix:** SOIL

Client Sample ID: HA-105(5.7'-7.1')
Collection Date: 6/16/2016 10:27:00 AM
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 1:19:27 AM	26020
EPA METHOD 8015M/D: DIESEL RANGE 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 RANGE						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.

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **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**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-26020**	SampType:	**LCS**	TestCode:	**EPA Method 300.0: Anions**				
Client ID:	**LCSS**	Batch ID:	**26020**	RunNo:	**35114**				
Prep Date:	**6/22/2016**	Analysis Date:	**6/22/2016**	SeqNo:	**1086468**	Units:	**mg/Kg**		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A50**

28-Jun-16

Client: Blagg Engineering
Project: GCU 207E

Sample ID **MB-25944**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **25944**	RunNo: **35116**
Prep Date: **6/20/2016**	Analysis Date: **6/23/2016**	SeqNo: **1086562** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	8.8		10.00		88.1	70	130			

Sample ID **LCS-25944**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **25944**	RunNo: **35116**
Prep Date: **6/20/2016**	Analysis Date: **6/23/2016**	SeqNo: **1086657** Units: **mg/Kg**

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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A50**

28-Jun-16

Client: Blagg Engineering
Project: GCU 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 (GRO)	ND	5.0								
Surr: BFB	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
Gasoline Range Organics (GRO)	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** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.4	80	120			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1606A50**

28-Jun-16

Client: Blagg Engineering

Project: GCU 207E

Sample ID **LCS-25945**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **25945**	RunNo: **35158**
Prep Date: **6/20/2016**	Analysis Date: **6/24/2016**	SeqNo: **1088034** Units: **mg/Kg**

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			
Toluene	0.98	0.050	1.000	0	98.1	80	124			
Ethylbenzene	1.0	0.050	1.000	0	100	82.8	121			
Xylenes, 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**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **25945**	RunNo: **35158**
Prep Date: **6/20/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088035** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.4	80	120			

Sample ID **LCS-26055**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **26055**	RunNo: **35174**
Prep Date: **6/24/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088135** 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**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **26055**	RunNo: **35174**
Prep Date: **6/24/2016**	Analysis Date: **6/25/2016**	SeqNo: **1088136** 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.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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: **1606A50** RcptNo: **1**

Received by/date: AT 06/17/16
Logged By: **Lindsay Mangin** 6/17/2016 7:45:00 AM
Completed By: **Lindsay Mangin** 6/20/2016 6:03:17 AM
Reviewed By: JR 06/20/16

Chain of Custody

1. Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
2. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
3. How was the sample delivered?	Courier		

Log In

4. Was an attempt made to cool the samples?	Yes ☑	No ☐	NA ☐
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes ☑	No ☐	NA ☐
6. Sample(s) in proper container(s)?	Yes ☑	No ☐	
7. Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
8. Are samples (except VOA and ONG) properly preserved?	Yes ☑	No ☐	
9. Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
10. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
11. Were any sample containers received broken?	Yes ☐	No ☑	# of preserved bottles checked for pH:
12. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	(<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 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	4.3	Good	Yes			

Chain-of-Custody Record

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: BP AMERICA

BLAGG ENGINEERING

Mailing Address:

Phone #: 505-320-1183

Email or Fax#:

QA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)

Accreditation: NELAP ☐ Other

EDD (Type)

Turn-Around Time: ☒ Standard ☐ Rush

Project Name: GCU 207E

Project #:

Project Manager: J. BLAGG

Sampler: J. BLAGG

On Ice: ☒ Yes ☐ No

Sample Temperature: 4.3

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1606A50	BTEX + ~~MTBE + TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / ~~MRO~~)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
6/2016	0936	SOIL	HA-101(4.0'-6.0')	4 oz x 1	COOL	-001	X		X									X				
"	0947	"	HA-102(5.0'-6.9')	"	"	-002	X		X									X				
"	1003	"	HA-103(5.4'-7.3')	"	"	-003	X		X									X				
"	1016	"	HA-104(5.0'-5.8')	"	"	-004	X		X									X				
"	1027	"	HA-105(5.7'-7.1')	"	"	-005	X		X									X				

Date: 6/6/16 Time: 1415 Relinquished by: JH Blagg Received by: Date 06/17/16 Time 0745

Date: Time: Relinquished by: Received by: Date Time

Remarks: BILL BP
CONTACT: STEVE MOSCAL
VID: VDRINKWJA1

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