

CLIENT: BP **BLAGG ENGINEERING, INC.**
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199 API #: 30-045-27582
 TANK ID (if applicable): —

FIELD REPORT:

(circle one): BGT CONFIRMATION / RELEASE INVESTIGATION / **(OTHER)**
WATER RELEASE SAMPLING

PAGE #: 1 of 1

SITE INFORMATION:

SITE NAME: NEBU 482

DATE STARTED: 6/28/2018

QUAD/UNIT: M SEC: 15 TWP: 31N RING: 7W PM: NM CNTY: SJ ST: NM

DATE FINISHED: 6/28/2018

1/4-1/4 FOOTAGE: 890 FSL x 790 FWL LEASE TYPE: FEDERAL/STATE/FEE/INDIAN

ENVIRONMENTAL SPECIALIST(S): JCB

LEASE #: NM 03356 PROD. FORMATION: FC CONTRACTOR: —

REFERENCE POINT:

WELL HEAD (W.H.) GPS COORD.: 36.89471 x 107.56473 GLELEV.: 6,543

- 1) _____ GPS COORD.: _____ DISTANCE BEARING FROM WH.: _____
- 2) _____ GPS COORD.: _____ DISTANCE BEARING FROM WH.: _____
- 3) _____ GPS COORD.: _____ DISTANCE BEARING FROM WH.: _____
- 4) _____ GPS COORD.: _____ DISTANCE BEARING FROM WH.: _____

SAMPLING DATA:

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

OVM READING (ppm): 5.2

- 1) SAMPLE ID: 5-pt @ 6" SAMPLE DATE: 6/28/2018 SAMPLE TIME: 1015 LAB ANALYSIS: TPH/BTEX/CL
- 2) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____
- 3) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____
- 4) SAMPLE ID: _____ SAMPLE DATE: _____ SAMPLE TIME: _____ LAB ANALYSIS: _____

SOIL DESCRIPTION:

SOIL TYPE: SAND / **(SILTY SAND)** / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER _____

SOIL COLOR: TAN PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC
 COHESION (ALL OTHERS): NON COHESIVE / **(SLIGHTLY COHESIVE)** / COHESIVE / HIGHLY COHESIVE DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD
 CONSISTENCY (NON COHESIVE SOILS): LOOSE / **(FIRM)** / DENSE / VERY DENSE HC ODOR DETECTED: YES / **(NO)** / EXPLANATION - _____
 MOISTURE: **(DRY)** / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED
 SAMPLE TYPE: GRAB / **(COMPOSITE)** # OF PTS. 5 ANY AREAS DISPLAYING WETNESS: YES / NO / EXPLANATION - _____
 DISCOLORATION/STAINING OBSERVED: **(YES)** / NO / EXPLANATION - Very Minor White Crust

SITE OBSERVATIONS:

LOST INTEGRITY OF EQUIPMENT: **(YES)** / NO / EXPLANATION: Wellhead GASKET (since repaired)

APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: **(YES)** / NO / EXPLANATION: Very minor white stain on ground

EQUIPMENT SET OVER RECLAIMED AREA: YES / **(NO)** / EXPLANATION - _____

OTHER: SPREAD 40# Gypsum over Release Area After Sampling

SOIL IMPACT DIMENSION ESTIMATION: 18 R X 9 R X 0.5 R EXCAVATION ESTIMATION (Cubic Yards): —

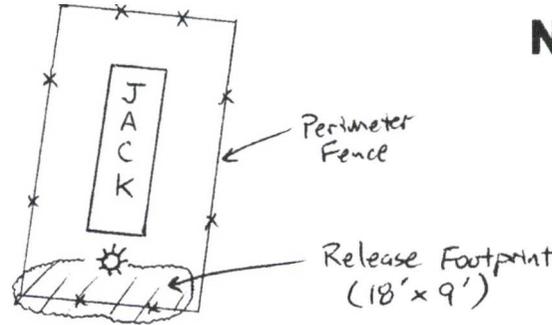
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000 NMCD TPH CLOSURE STD: 5,000 ppm

SITE SKETCH

BGT Located: off / on site

PLOT PLAN circle: attached

OVM CALIB. READ. = 100.7 ppm RF = 0.92
 OVM CALIB. GAS = 100.0 ppm
 TIME 1020 am/pm DATE 6/28/18



MISCELL. NOTES

WO: _____
 PO #: _____
 PK: _____
 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; PBGT = PREVIOUS BELOW-GRADE TANK LOCATION; SPD = SAMPLE POINT DESIGNATION; R.W. = RETAINING WALL; NA = NOT APPLICABLE OR NOT AVAILABLE; SW = SINGLE WALL; DW = DOUBLE WALL; SB = SINGLE BOTTOM; DB = DOUBLE BOTTOM

NOTES: 6/27/2018 ONSITE: 6/28/2018

NEBU 482
June 28, 2018

Release Footprint
18' x 9'





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

July 11, 2018

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

RE: NEBU 482

OrderNo.: 1806H61

Dear Steven Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/29/2018 for the analyses presented in the following report.

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

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

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Project: NEBU 482

Lab ID: 1806H61-001

Matrix: SOIL

Client Sample ID: Spill 5-pt Comp.@6

Collection Date: 6/28/2018 10:15:00 AM

Received Date: 6/29/2018 8:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	520	30		mg/Kg	20	7/9/2018 12:03:52 PM	39097
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: Irm
Diesel Range Organics (DRO)	230	10		mg/Kg	1	7/2/2018 5:20:34 PM	38981
Motor Oil Range Organics (MRO)	610	50		mg/Kg	1	7/2/2018 5:20:34 PM	38981
Surr: DNOP	111	70-130		%Rec	1	7/2/2018 5:20:34 PM	38981
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/2/2018 10:55:52 AM	38979
Surr: BFB	90.2	15-316		%Rec	1	7/2/2018 10:55:52 AM	38979
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	7/2/2018 10:55:52 AM	38979
Toluene	ND	0.049		mg/Kg	1	7/2/2018 10:55:52 AM	38979
Ethylbenzene	ND	0.049		mg/Kg	1	7/2/2018 10:55:52 AM	38979
Xylenes, Total	0.12	0.098		mg/Kg	1	7/2/2018 10:55:52 AM	38979
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	7/2/2018 10:55:52 AM	38979

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
	PQL	Practical Quantitative Limit	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#: 1806H61
11-Jul-18

Client: Blagg Engineering
Project: NEBU 482

Sample ID	MB-39097	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	39097	RunNo:	52563					
Prep Date:	7/9/2018	Analysis Date:	7/9/2018	SeqNo:	1724219	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39097	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39097	RunNo:	52563					
Prep Date:	7/9/2018	Analysis Date:	7/9/2018	SeqNo:	1724220	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.8	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 |
| PQL Practical Quantitative Limit | 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#: 1806H61
11-Jul-18

Client: Blagg Engineering
Project: NEBU 482

Sample ID	MB-38981	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	38981	RunNo:	52397					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1719410	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	10		10.00		102	70	130			

Sample ID	LCS-38981	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	38981	RunNo:	52397					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1719411	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	93.9	70	130			
Surr: DNOP	4.7		5.000		94.2	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 |
| PQL Practical Quantitative Limit | 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#: 1806H61
11-Jul-18

Client: Blagg Engineering
Project: NEBU 482

Sample ID	MB-38979	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	38979	RunNo:	52429					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1718661	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	950		1000		94.5	15	316			

Sample ID	LCS-38979	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	38979	RunNo:	52429					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1718662	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	103	75.9	131			
Surr: BFB	1000		1000		103	15	316			

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 |
| PQL Practical Quantitative Limit | 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#: 1806H61
11-Jul-18

Client: Blagg Engineering
Project: NEBU 482

Sample ID	MB-38979	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	38979	RunNo:	52429					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1718709	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	1.1		1.000		106	80	120			

Sample ID	LCS-38979	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	38979	RunNo:	52429					
Prep Date:	6/29/2018	Analysis Date:	7/2/2018	SeqNo:	1718710	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.3	77.3	128			
Toluene	0.98	0.050	1.000	0	97.6	79.2	125			
Ethylbenzene	0.98	0.050	1.000	0	97.6	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.3	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		106	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 |
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| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



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

Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1806H61**

RcptNo: **1**

Received By: **Anne Thorne** 6/29/2018 8:00:00 AM

Anne Thorne

Completed By: **Isaiah Ortiz** 6/29/2018 8:44:48 AM

IO

Reviewed By: *JUG 6/29/18*
LB: MW 6/29/18

Chain of Custody

1. Is Chain of Custody complete? Yes No Not Present
 2. How was the sample delivered? Courier

Log In

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

of preserved bottles checked for pH: MW 6/29/18
 (<2 of 12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes No NA

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.3	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**

Mailing Address: **BLAGG ENGINEERING INC.**

Phone #: **505-320-1193**

email or Fax#:

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

Accreditation
 NELAP Other _____

EDD (Type) _____

Turn-Around Time:

Standard Rush

Project Name:
NEBU 482

Project #:

Project Manager:
STEVE MOSKAL

Sampler: **JEFF BLAGG**

On Ice: Yes No

Sample Temperature: **2.3 CF-10=1.3**

Analysis Request

BTEX + MTBE + THMs (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)
X	X										X	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
6/28/2007	1015	SOIL	SPILL 5-pt comp. @ 6"	4oz x 1	COOL	1806H61 -001

Date: 6/29/2008	Time: 1553	Relinquished by: Jeff Blagg	Received by: [Signature]	Date: 6/28/08	Time: 1553
Date: 6/20/08	Time: 1754	Relinquished by: [Signature]	Received by: [Signature]	Date: 06/29/08	Time: 0800

Remarks: **Bill BP CONTACT: STEVE MOSKAL**

USE GENERAL P.O.

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.