

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: Steve Moskal
Address: 200 Energy Court, Farmington, NM 87401	Telephone No.: 505-326-9497
Facility Name: Fields A 001A	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004522398	

LOCATION OF RELEASE

Unit Letter D	Section 25	Township 32N	Range 11W	Feet from the 980	North/South Line North	Feet from the 1.460	East/West Line West	County: San Juan
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Latitude 36.960778° Longitude -107.945354°

NATURE OF RELEASE

Type of Release: none	Volume of Release: unknown	Volume Recovered: N/A
Source of Release: below grade tank – 95 bbl	Date and Hour of Occurrence: none	Date and Hour of Discovery: none
Was Immediate Notice Given? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* Sampling of the soil beneath the BGT was done during removal. Soil analysis resulted for BTEX and chlorides below BGT closure standards. TPH exceeded the BGT closure requirements. Approximately 20 cubic yards of impacted soil were removed from the BGT location prior to backfill. Field reports and laboratory results are attached.		
Describe Area Affected and Cleanup Action Taken.* No further action necessary. Impacted material was removed during the BGT closure activity and will be addressed via the spill and release guidelines. Final laboratory analysis determined no remedial action is required.		
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	
Printed Name: Steve Moskal	Approved by Environmental Specialist 	
Title: Field Environmental Coordinator	Approval Date: <u>7/25/2017</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: May 17, 2017	Phone: 505-326-9497	

* Attach Additional Sheets If Necessary

NVF1720637542

OIL CONS. DIV DIST. 3

MAY 18 2017

CLIENT: BP	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	API #: 3004522398
		TANK ID (if applicable): A

FIELD REPORT: (circle one): <input checked="" type="checkbox"/> BGT CONFIRMATION / <input type="checkbox"/> RELEASE INVESTIGATION / <input type="checkbox"/> OTHER:	PAGE #: 1 of 1
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SITE INFORMATION:	SITE NAME: FIELDS A # 1A	DATE STARTED: 03/24/17
QUAD/UNIT: C SEC: 25 TWP: 32N RNG: 11W PM: NM CNTY: SJ ST: NM		DATE FINISHED:
1/4 -1/4/FOOTAGE: 980'N / 1,460'W NE/NW LEASE TYPE: <input checked="" type="checkbox"/> FEDERAL / <input type="checkbox"/> STATE / <input type="checkbox"/> FEE / <input type="checkbox"/> INDIAN		ENVIRONMENTAL SPECIALIST(S): JCB
LEASE #: NM010989 PROD. FORMATION: MV CONTRACTOR: STRIKE MBF - R. POWELL		

REFERENCE POINT:	WELL HEAD (W.H.) GPS COORD.: 36.96062 X 107.94559 GL ELEV.: 6,268'	
1) 95 BGT (SW/DB) - A	GPS COORD.: 36.960778 X 107.945354	DISTANCE/BEARING FROM WH.: 87', N44E
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): 0.0
1) SAMPLE ID: 95 BGT 5-pt. @ 5' SAMPLE DATE: 03/24/17 SAMPLE TIME: 0855 LAB ANALYSIS: 8015B/8021B/300.0 (CI)		
2) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:
3) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:
4) SAMPLE ID:	SAMPLE DATE:	SAMPLE TIME:

SOIL DESCRIPTION:	SOIL TYPE: <input checked="" type="checkbox"/> SAND / <input type="checkbox"/> SILTY SAND / <input type="checkbox"/> SILT / <input type="checkbox"/> SILTY CLAY / <input type="checkbox"/> CLAY / <input type="checkbox"/> GRAVEL / <input checked="" type="checkbox"/> OTHER BEDROCK (SANDSTONE)
SOIL COLOR: DARK YELLOWISH ORANGE	PLASTICITY (CLAYS): <input type="checkbox"/> NON PLASTIC / <input type="checkbox"/> SLIGHTLY PLASTIC / <input type="checkbox"/> COHESIVE / <input type="checkbox"/> MEDIUM PLASTIC / <input type="checkbox"/> HIGHLY PLASTIC
COHESION (ALL OTHERS): <input checked="" type="checkbox"/> NON COHESIVE / <input type="checkbox"/> SLIGHTLY COHESIVE / <input type="checkbox"/> COHESIVE / <input type="checkbox"/> HIGHLY COHESIVE	DENSITY (COHESIVE CLAYS & SILTS): <input type="checkbox"/> SOFT / <input type="checkbox"/> FIRM / <input type="checkbox"/> STIFF / <input type="checkbox"/> VERY STIFF / <input type="checkbox"/> HARD
CONSISTENCY (NON COHESIVE SOILS): <input type="checkbox"/> LOOSE / <input type="checkbox"/> FIRM / <input type="checkbox"/> DENSE / <input checked="" type="checkbox"/> VERY DENSE	HC ODOR DETECTED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EXPLANATION -
MOISTURE: DRY / <input checked="" type="checkbox"/> SLIGHTLY MOIST / <input type="checkbox"/> MOIST / <input type="checkbox"/> WET / <input type="checkbox"/> SATURATED / <input type="checkbox"/> SUPER SATURATED	ANY AREAS DISPLAYING WETNESS: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EXPLANATION -
SAMPLE TYPE: GRAB / <input checked="" type="checkbox"/> COMPOSITE # OF PTS. 5	DISCOLORATION/STAINING OBSERVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EXPLANATION -

SITE OBSERVATIONS:	LOST INTEGRITY OF EQUIPMENT: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EXPLANATION -
APPARENT EVIDENCE OF A RELEASE OBSERVED AND/OR OCCURRED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> EXPLANATION:	
EQUIPMENT SET OVER RECLAIMED AREA: <input checked="" type="checkbox"/> YES / <input type="checkbox"/> NO EXPLANATION -	105 BBL SHALLOW LOW PROFILE ABOVE-GRADE TANK TO BE SET ATOP BGT LOCATION.
OTHER:	

SOIL IMPACT DIMENSION ESTIMATION: NA ft. X NA ft. X NA ft.	EXCAVATION ESTIMATION (Cubic Yards): NA
DEPTH TO GROUNDWATER: <100' NEAREST WATER SOURCE: >1,000' NEAREST SURFACE WATER: <1,000' NMOC D TPH CLOSURE STD: 100 ppm	

SITE SKETCH BGT Located: <input checked="" type="checkbox"/> off / <input type="checkbox"/> on site PLOT PLAN circle: <input checked="" type="checkbox"/> attached <p style="text-align: center;">X - S.P.D.</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>OVM CALIB. READ. = 99.8 ppm</td> <td>RF = 0.52</td> </tr> <tr> <td>OVM CALIB. GAS = 100 ppm</td> <td></td> </tr> <tr> <td>TIME: 9:00 am/pm</td> <td>DATE: 03/24/17</td> </tr> </table> MISCELL. NOTES WO: REF. #: P-686 VID: VHIXONEVB2 PJ #: Permit date(s): 06/03/10 OCD Appr. date(s): 04/08/16 <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>Tank ID</td> <td>OVM = Organic Vapor Meter ppm = parts per million</td> </tr> <tr> <td>A</td> <td>BGT Sidewalls Visible: Y / <input checked="" type="checkbox"/> N</td> </tr> <tr> <td></td> <td>BGT Sidewalls Visible: Y / N</td> </tr> <tr> <td></td> <td>BGT Sidewalls Visible: Y / N</td> </tr> </table> Magnetic declination: 10° E	OVM CALIB. READ. = 99.8 ppm	RF = 0.52	OVM CALIB. GAS = 100 ppm		TIME: 9:00 am/pm	DATE: 03/24/17	Tank ID	OVM = Organic Vapor Meter ppm = parts per million	A	BGT Sidewalls Visible: Y / <input checked="" type="checkbox"/> N		BGT Sidewalls Visible: Y / N		BGT Sidewalls Visible: Y / N
OVM CALIB. READ. = 99.8 ppm	RF = 0.52														
OVM CALIB. GAS = 100 ppm															
TIME: 9:00 am/pm	DATE: 03/24/17														
Tank ID	OVM = Organic Vapor Meter ppm = parts per million														
A	BGT Sidewalls Visible: Y / <input checked="" type="checkbox"/> N														
	BGT Sidewalls Visible: Y / N														
	BGT Sidewalls Visible: Y / N														

NOTES: GOOGLE EARTH IMAGERY DATE: 3/15/2015.	ONSITE: 03/24/17
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Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering
 Project: Fields A 1A
 Lab ID: 1703C94-001

Client Sample ID: 95 BGT 5-pt@5'
 Collection Date: 3/24/2017 8:55:00 AM
 Received Date: 3/25/2017 8:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	3/27/2017 9:57:25 AM	30913
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	180	9.7		mg/Kg	1	3/27/2017 9:54:11 AM	30906
Motor Oil Range Organics (MRO)	360	49		mg/Kg	1	3/27/2017 9:54:11 AM	30906
Surr: DNOP	113	70-130		%Rec	1	3/27/2017 9:54:11 AM	30906
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/27/2017 10:28:34 AM	30878
Surr: BFB	85.7	54-150		%Rec	1	3/27/2017 10:28:34 AM	30878
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	3/27/2017 10:28:34 AM	30878
Toluene	ND	0.035		mg/Kg	1	3/27/2017 10:28:34 AM	30878
Ethylbenzene	ND	0.035		mg/Kg	1	3/27/2017 10:28:34 AM	30878
Xylenes, Total	ND	0.069		mg/Kg	1	3/27/2017 10:28:34 AM	30878
Surr: 4-Bromofluorobenzene	93.8	66.6-132		%Rec	1	3/27/2017 10:28:34 AM	30878

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#: 1703C94

28-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID	MB-30913	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	30913	RunNo:	41666					
Prep Date:	3/27/2017	Analysis Date:	3/27/2017	SeqNo:	1308419	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-30913	SampType:	ics	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	30913	RunNo:	41666					
Prep Date:	3/27/2017	Analysis Date:	3/27/2017	SeqNo:	1308420	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.5	90	110			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C94

28-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID: MB-30906	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 30906	RunNo: 41655								
Prep Date: 3/27/2017	Analysis Date: 3/27/2017	SeqNo: 1307466	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		101	70	130			

Sample ID: LCS-30906	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 30906	RunNo: 41655								
Prep Date: 3/27/2017	Analysis Date: 3/27/2017	SeqNo: 1307467	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	50	10	50.00	0	100	63.8	116			
Surr: DNOP	4.6		5.000		91.4	70	130			

Sample ID: 1703C94-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: 95 BGT 5-pt@5'	Batch ID: 30906	RunNo: 41655								
Prep Date: 3/27/2017	Analysis Date: 3/27/2017	SeqNo: 1307589	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	200	10	50.25	182.5	40.9	51.6	130			S
Surr: DNOP	5.7		5.025		113	70	130			

Sample ID: 1703C94-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: 95 BGT 5-pt@5'	Batch ID: 30906	RunNo: 41655								
Prep Date: 3/27/2017	Analysis Date: 3/27/2017	SeqNo: 1307590	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)	140	10	50.35	182.5	-90.7	51.6	130	39.0	20	RS
Surr: DNOP	5.7		5.035		112	70	130	0	0	

Sample ID: MB-30886	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 30886	RunNo: 41655								
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeqNo: 1307787	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Surr: DNOP	11		10.00		112	70	130			
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Sample ID: LCS-30886	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 30886	RunNo: 41655								
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeqNo: 1307789	Units: %Rec							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C94
28-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID	LCS-30886	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30886	RunNo:	41655					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307789	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.2		5.000		105	70	130			

Sample ID	ADOCP JME 2	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30886	RunNo:	41655					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307790	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.4		5.000		107	70	130			

Sample ID	ADOCP JME 3	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30886	RunNo:	41655					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307791	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		106	70	130			

Sample ID	ADOCP JME 4	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30886	RunNo:	41655					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307792	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.1		5.000		102	70	130			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C94
 28-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID MB-30878	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 30878	RunNo: 41673								
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeqNo: 1307786	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	630		1000		62.9	54	150			

Sample ID LCS-30878	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 30878	RunNo: 41673								
Prep Date: 3/24/2017	Analysis Date: 3/27/2017	SeqNo: 1307788	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	76.4	125			
Surr: BFB	770		1000		77.4	54	150			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1703C94
 28-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID	MB-30878	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	30878	RunNo:	41673					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307844	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	0.70		1.000		69.7	66.6	132			

Sample ID	LCS-30878	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	30878	RunNo:	41673					
Prep Date:	3/24/2017	Analysis Date:	3/27/2017	SeqNo:	1307845	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80	120			
Xylenes, Total	2.9	0.10	3.000	0	97.8	80	120			
Surr: 4-Bromofluorobenzene	0.73		1.000		72.7	66.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank
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- P Sample pH Not In Range
- RL Reporting Detection Limit
- 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: **1703C94**

RcptNo: **1**

Received by/date:

[Signature] **03/25/17**

Logged By: **Lindsay Mangin**

3/25/2017 8:15:00 AM

[Signature]

Completed By: **Lindsay Mangin**

3/27/2017 7:30:15 AM

[Signature]

Reviewed By:

[Signature] **03/27/17**

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)

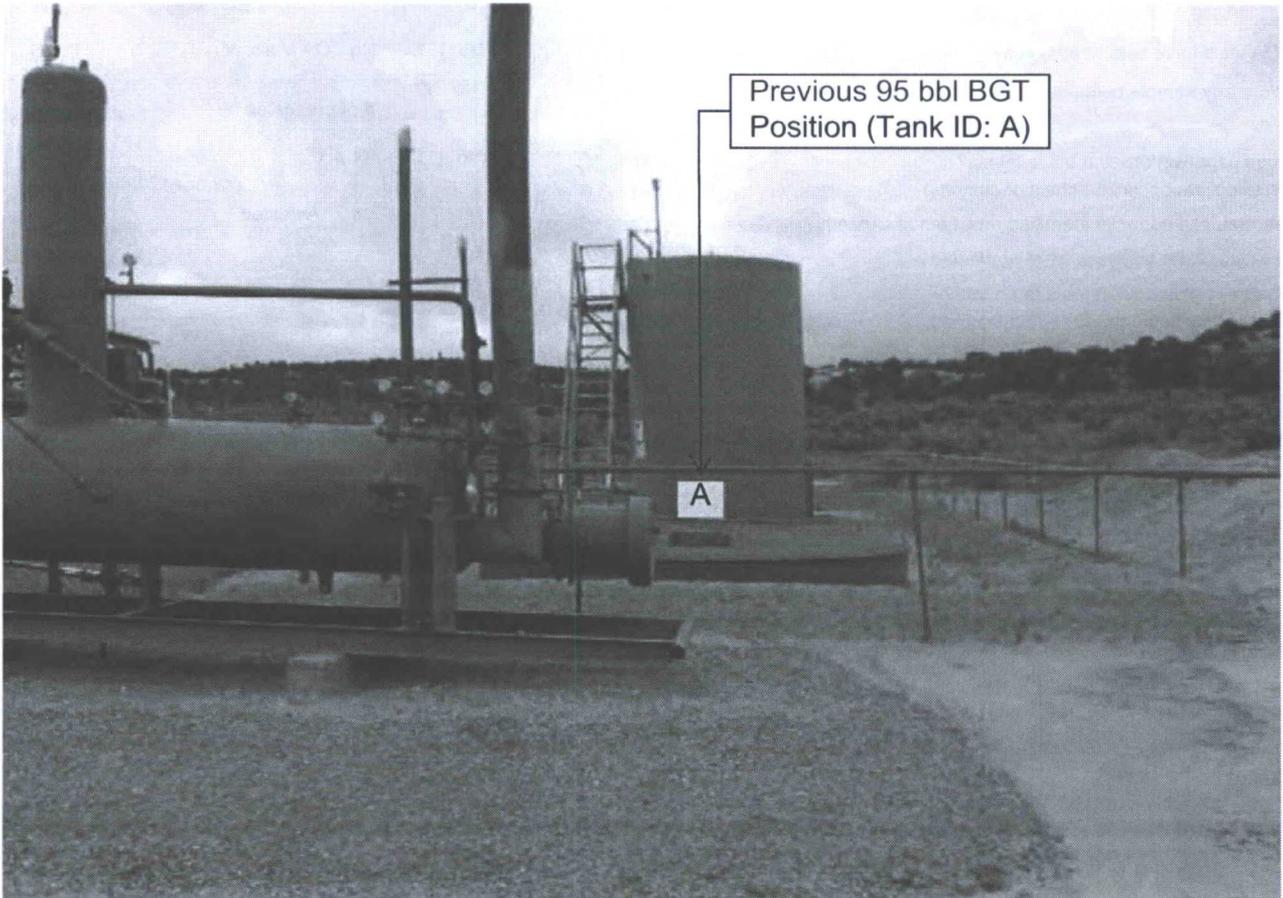
- 16. Was client notified of all discrepancies with this order? Yes No NA

Person Notified: _____ Date: _____
 By Whom: _____ Via: eMail Phone Fax In Person
 Regarding: _____
 Client Instructions: _____

17. Additional remarks:

Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.2	Good	Yes			



Analytical Report

Lab Order 1703E00

Date Reported: 3/30/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 95 BGT 5-pt @ 5'-7'

Project: Fields A 1A

Collection Date: 3/28/2017 9:40:00 AM

Lab ID: 1703E00-001

Matrix: MEOH (SOIL)

Received Date: 3/29/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	3/29/2017 9:17:12 AM	30953
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	3/29/2017 9:17:12 AM	30953
Surr: DNOP	110	70-130		%Rec	1	3/29/2017 9:17:12 AM	30953
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	3/29/2017 8:55:27 AM	30945
Surr: BFB	84.4	54-150		%Rec	1	3/29/2017 8:55:27 AM	30945

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#: 1703E00

30-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID	LCS-30953	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	30953	RunNo:	41718					
Prep Date:	3/29/2017	Analysis Date:	3/29/2017	SeqNo:	1309557	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	94.4	63.8	116			
Surr: DNOP	4.7		5.000		93.0	70	130			

Sample ID	MB-30953	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	30953	RunNo:	41718					
Prep Date:	3/29/2017	Analysis Date:	3/29/2017	SeqNo:	1309558	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	11		10.00		105	70	130			

Sample ID	1703E00-001AMS	SampType:	MS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	95 BGT 5-pt @ 5'-7'	Batch ID:	30953	RunNo:	41718					
Prep Date:	3/29/2017	Analysis Date:	3/29/2017	SeqNo:	1310025	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.66	1.773	96.4	51.6	130			
Surr: DNOP	5.3		5.066		104	70	130			

Sample ID	1703E00-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	95 BGT 5-pt @ 5'-7'	Batch ID:	30953	RunNo:	41718					
Prep Date:	3/29/2017	Analysis Date:	3/29/2017	SeqNo:	1310071	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.8	49.16	1.773	99.0	51.6	130	0.301	20	
Surr: DNOP	5.3		4.916		107	70	130	0	0	

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1703E00

30-Mar-17

Client: Blagg Engineering
Project: Fields A 1A

Sample ID MB-30945	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 30945		RunNo: 41734							
Prep Date: 3/28/2017	Analysis Date: 3/29/2017		SeqNo: 1310271		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	670		1000		66.8	54	150			

Sample ID LCS-30945	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 30945		RunNo: 41734							
Prep Date: 3/28/2017	Analysis Date: 3/29/2017		SeqNo: 1310272		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	76.4	125			
Surr: BFB	930		1000		92.9	54	150			

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
 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: 1703E00

RcptNo: 1

Received by/date: AT 03/29/17

Logged By: **Lindsay Mangin** 3/29/2017 7:15:00 AM *[Signature]*

Completed By: **Lindsay Mangin** 3/29/2017 7:38:53 AM *[Signature]*

Reviewed By: SRE 03/29/17

Chain of Custody

- Custody seals intact on sample bottles? Yes No Not Present
- Is Chain of Custody complete? Yes No Not Present
- How was the sample delivered? Courier

Log In

- Was an attempt made to cool the samples? Yes No NA
- Were all samples received at a temperature of >0° C to 6.0°C Yes No NA
- Sample(s) in proper container(s)? Yes No
- Sufficient sample volume for indicated test(s)? Yes No
- Are samples (except VOA and ONG) properly preserved? Yes No
- Was preservative added to bottles? Yes No NA
- VOA vials have zero headspace? Yes No No VOA Vials
- Were any sample containers received broken? Yes No
- Does paperwork match bottle labels? Yes No
- Are matrices correctly identified on Chain of Custody? Yes No
- Is it clear what analyses were requested? Yes No
- Were all holding times able to be met? Yes No

of preserved bottles checked for pH: _____
 (<2 or >12 unless noted)
 Adjusted? _____
 Checked by: _____

Special Handling (if applicable)

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

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

17. Additional remarks:

18. Cooler Information

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

