

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: State Com H 009	Facility Type: Natural gas well

Surface Owner: State	Mineral Owner: State	API No. 3004520060
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**LOCATION OF RELEASE**

Unit Letter B	Section 16	Township 30N	Range 09W	Feet from the 1,045	North/South Line North	Feet from the 1,575	East/West Line East	County: San Juan
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Latitude 36.81604° Longitude -107.78260°

**NATURE OF RELEASE**



Type of Release: Unknown - hydrocarbon	Volume of Release: unknown	Volume Recovered: none
Source of Release: Unknown - suspect earthen pit	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: December 5, 2016
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>OIL CONS. DIV DIST. 3</b>	
By Whom? Steve Moskal	Date and Hour: <b>AUG 09 2017</b>	
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.\* During equipment removal after the production well was plugged and abandoned, the construction crew discovered what appears to be hydrocarbon impacts to the soil, likely associated with an earthen pit. The soil was remediated via soil shredding.

Describe Area Affected and Cleanup Action Taken.\* The total disturbance was approximately 50'x45'x 16' deep. A total of 800 cubic yards were successfully treated and used for backfill. No further action required. The site is currently being reclaimed.

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: <b>9/13/17</b>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 8, 2017	Phone: 505-326-9497	

\* Attach Additional Sheets If Necessary

#NVF11447215

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**BP America**  
**State Com H 9**  
**(B) Sec 16 – T30N – R9W**  
**San Juan County, New Mexico**  
**API: 30-045-20060**

Summary Record of Impact Remediation

December 2, 2016 Soils impacted with hydrocarbons encountered during reclamation of PxA wellpad. The original source could not be identified. Initial sampling of impacted media at the 4' depth tested total TPH following U.S.EPA Method 8015 at 6,700 mg/Kg. A sample collected at the 12' depth tested total TPH at non-detect.

Site Closure Standard Determined at 100 ppm TPH based on:

Depth to Groundwater based on BGT permit research > 100 feet (0 points)  
Distance to water well > 1,000' based on BGT permit research (0 points)  
Distance to dry wash < 200' based on site measurements (20 points)

Total Site Ranking: 20

April 20, 2017 Begin site remediation via excavation at the initial impact discovery center. Prepare to treat impacted material on-site via soil shredding and chemical treatment.

April 24, 2017 Conduct witnessed sampling of remedial excavation. Final top perimeter of excavation approximately 50' x 45', base perimeter at 16' below grade approximately 25' x 20'. Begin treating impacted soils via soil shredding.

April 25, 2017 Conduct sampling of 8 x 100 CY piles of treated soils.

April 26, 2017 Conduct re-sampling of 2 x 100 CY piles that failed on initial testing.

April 27, 2017 Final review of laboratory analytical reports on excavation and treated soils indicates that remedial excavation and treated soils meet NMOCD standards for closure.

May 5, 2017 Complete backfilling of excavation using treated soils.

Summary laboratory data documenting remedial excavation closure:

Sample ID	Date	TPH Total (mg/Kg)	BTEX Total (mg/Kg)	Benzene (mg/Kg)	Comments
B: Base 5-pt. comp @ 16'	4/24/2017	ND	ND	ND	
N: North Wall 5- pt. comp @ 3' – 13'	4/24/2017	ND	ND	ND	
W: West Wall 5- pt. comp @ 3' – 13'	4/24/2017	ND	ND	ND	
E: East Wall 5- pt. comp @ 3' – 13'	4/24/2017	ND	ND	ND	
S: South Wall 5- pt. comp @ 3' – 13'	4/24/2017	ND	ND	ND	
NMOCD Closure Standard		100	50	10	

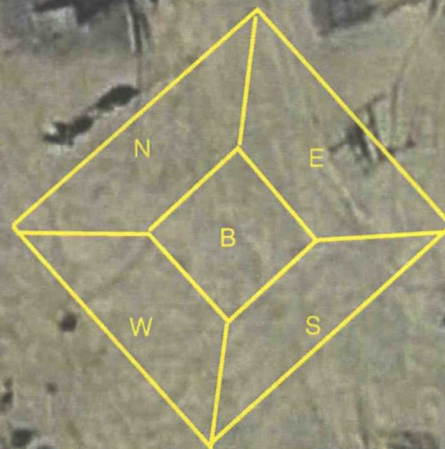
Summary laboratory data documenting treated soil closure:

[illegible]

## State Com H 9

(B) Sec 16 - T30N - R9W  
API: 30-045-20060

North



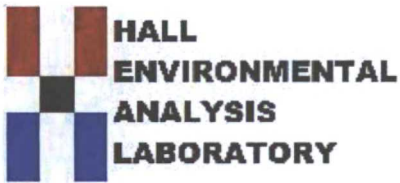
Final Remedial Excavation  
(Apr 25, 2017)  
(Top Perimeter 50' x 45')  
(Base 25' x 20' x 15' Deep)

### Closure Sampling (Apr 24, 2017)

B: Base 5-pt @ 16' OVM = 0.0, TPH = ND  
N: North Wall 5-pt OVM = 0.2, TPH = ND  
W: West Wall 5-pt OVM = 0.0, TPH = ND  
E: East Wall 5-pt OVM = 0.0, TPH = ND  
S: South Wall 5-pt OVM = 0.0, TPH = ND

# Laboratory Analytical Reports





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

April 26, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL:

FAX

RE: State COM H 9

OrderNo.: 1704A78

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/25/2017 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1704A78

Date Reported: 4/26/2017

CLIENT: Blagg Engineering

Client Sample ID: Base@16' (5-pt)

Project: State COM H 9

Collection Date: 4/24/2017 10:56:00 AM

Lab ID: 1704A78-001

Matrix: MEOH (SOIL)

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/25/2017 10:22:27 AM	31409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/25/2017 11:16:32 AM	31408
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2017 11:16:32 AM	31408
Surr: DNOP	106	70-130		%Rec	1	4/25/2017 11:16:32 AM	31408
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	4/25/2017 8:52:48 AM	G42346
Surr: BFB	100	54-150		%Rec	1	4/25/2017 8:52:48 AM	G42346
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	4/25/2017 8:52:48 AM	B42346
Toluene	ND	0.039		mg/Kg	1	4/25/2017 8:52:48 AM	B42346
Ethylbenzene	ND	0.039		mg/Kg	1	4/25/2017 8:52:48 AM	B42346
Xylenes, Total	ND	0.079		mg/Kg	1	4/25/2017 8:52:48 AM	B42346
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	4/25/2017 8:52:48 AM	B42346

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.

## Analytical Report

Lab Order 1704A78

Date Reported: 4/26/2017

CLIENT: Blagg Engineering

Client Sample ID: North Wall (5-pt)

Project: State COM H 9

Collection Date: 4/24/2017 10:59:00 AM

Lab ID: 1704A78-002

Matrix: MEOH (SOIL)

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/25/2017 10:34:52 AM	31409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/25/2017 11:38:25 AM	31408
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/25/2017 11:38:25 AM	31408
Surr: DNOP	108	70-130		%Rec	1	4/25/2017 11:38:25 AM	31408
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.3		mg/Kg	1	4/25/2017 9:16:49 AM	G42346
Surr: BFB	98.4	54-150		%Rec	1	4/25/2017 9:16:49 AM	G42346
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	4/25/2017 9:16:49 AM	B42346
Toluene	ND	0.033		mg/Kg	1	4/25/2017 9:16:49 AM	B42346
Ethylbenzene	ND	0.033		mg/Kg	1	4/25/2017 9:16:49 AM	B42346
Xylenes, Total	ND	0.066		mg/Kg	1	4/25/2017 9:16:49 AM	B42346
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	1	4/25/2017 9:16:49 AM	B42346

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.

## Analytical Report

Lab Order 1704A78

Date Reported: 4/26/2017

CLIENT: Blagg Engineering

Client Sample ID: West Wall (5-pt)

Project: State COM H 9

Collection Date: 4/24/2017 11:01:00 AM

Lab ID: 1704A78-003

Matrix: MEOH (SOIL)

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	44	30		mg/Kg	20	4/25/2017 10:47:16 AM	31409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/25/2017 10:54:31 AM	31408
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/25/2017 10:54:31 AM	31408
Surr: DNOP	108	70-130		%Rec	1	4/25/2017 10:54:31 AM	31408
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/25/2017 9:40:46 AM	G42346
Surr: BFB	102	54-150		%Rec	1	4/25/2017 9:40:46 AM	G42346
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	4/25/2017 9:40:46 AM	B42346
Toluene	ND	0.034		mg/Kg	1	4/25/2017 9:40:46 AM	B42346
Ethylbenzene	ND	0.034		mg/Kg	1	4/25/2017 9:40:46 AM	B42346
Xylenes, Total	ND	0.068		mg/Kg	1	4/25/2017 9:40:46 AM	B42346
Surr: 4-Bromofluorobenzene	113	66.6-132		%Rec	1	4/25/2017 9:40:46 AM	B42346

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

**Analytical Report**

Lab Order 1704A78

Date Reported: 4/26/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** East Wall (5-pt)**Project:** State COM H 9**Collection Date:** 4/24/2017 11:04:00 AM**Lab ID:** 1704A78-004**Matrix:** MEOH (SOIL)**Received Date:** 4/25/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/25/2017 10:59:40 AM	31409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	4/25/2017 12:00:16 PM	31408
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2017 12:00:16 PM	31408
Surr: DNOP	104	70-130		%Rec	1	4/25/2017 12:00:16 PM	31408
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/25/2017 10:04:44 AM	G42346
Surr: BFB	99.6	54-150		%Rec	1	4/25/2017 10:04:44 AM	G42346
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	4/25/2017 10:04:44 AM	B42346
Toluene	ND	0.034		mg/Kg	1	4/25/2017 10:04:44 AM	B42346
Ethylbenzene	ND	0.034		mg/Kg	1	4/25/2017 10:04:44 AM	B42346
Xylenes, Total	ND	0.068		mg/Kg	1	4/25/2017 10:04:44 AM	B42346
Surr: 4-Bromofluorobenzene	109	66.6-132		%Rec	1	4/25/2017 10:04:44 AM	B42346

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

<b>Qualifiers:</b>	*	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.

## Analytical Report

Lab Order 1704A78

Date Reported: 4/26/2017

CLIENT: Blagg Engineering

Client Sample ID: South Wall (5-pt)

Project: State COM H 9

Collection Date: 4/24/2017 11:07:00 AM

Lab ID: 1704A78-005

Matrix: MEOH (SOIL)

Received Date: 4/25/2017 7:15:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/25/2017 11:12:05 AM	31409
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/25/2017 12:22:10 PM	31408
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/25/2017 12:22:10 PM	31408
Surr: DNOP	102	70-130		%Rec	1	4/25/2017 12:22:10 PM	31408
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/25/2017 10:28:41 AM	G42346
Surr: BFB	101	54-150		%Rec	1	4/25/2017 10:28:41 AM	G42346
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	4/25/2017 10:28:41 AM	B42346
Toluene	ND	0.034		mg/Kg	1	4/25/2017 10:28:41 AM	B42346
Ethylbenzene	ND	0.034		mg/Kg	1	4/25/2017 10:28:41 AM	B42346
Xylenes, Total	ND	0.068		mg/Kg	1	4/25/2017 10:28:41 AM	B42346
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	1	4/25/2017 10:28:41 AM	B42346

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#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	MB-31409	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31409	RunNo:	42344					
Prep Date:	4/25/2017	Analysis Date:	4/25/2017	SeqNo:	1331679	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31409	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31409	RunNo:	42344					
Prep Date:	4/25/2017	Analysis Date:	4/25/2017	SeqNo:	1331680	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	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                                    |
| 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#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	LCS-31408		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31408		RunNo: 42335					
Prep Date:	4/25/2017		Analysis Date: 4/25/2017		SeqNo: 1330932		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	93.3	63.8	116			
Surr: DNOP	4.5		5.000		89.4	70	130			

Sample ID	MB-31408	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	31408		RunNo:	42335				
Prep Date:	4/25/2017	Analysis Date:	4/25/2017		SeqNo:	1330933	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		108	70	130			

Sample ID	1704A78-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	Base@16' (5-pt)		Batch ID: 31408		RunNo: 42335					
Prep Date:	4/25/2017		Analysis Date: 4/25/2017		SeqNo: 1331304		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	9.6	48.17	3.475	95.7	51.6	130			
Surr: DNOP	4.6		4.817		95.3	70	130			

Sample ID	1704A78-001AMSD		SampType:	MSD		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	Base@16' (5-pt)		Batch ID:	31408		RunNo:	42335				
Prep Date:	4/25/2017		Analysis Date:	4/25/2017		SeqNo:	1331305		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	54	9.7	48.69	3.475	104	51.6	130	9.07	20		
Surr: DNOP	4.9		4.869		100	70	130	0	0		

Sample ID	LCS-31395		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31395		RunNo: 42335					
Prep Date:	4/24/2017		Analysis Date: 4/25/2017		SeqNo: 1331306		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.6		5.000		92.8	70	130			

Sample ID	MB-31395		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31395		RunNo: 42335					
Prep Date:	4/24/2017		Analysis Date: 4/25/2017		SeqNo: 1331307		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#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	MB-31395	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31395	RunNo:	42335					
Prep Date:	4/24/2017	Analysis Date:	4/25/2017	SeqNo:	1331307	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	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                                    |
| 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#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331528	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	1000		1000		99.7	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331529	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	76.4	125			
Surr: BFB	1100		1000		114	54	150			

Sample ID	1704A78-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Base@16' (5-pt)	Batch ID:	G42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331530	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	3.9	19.72	0	98.1	61.3	150			
Surr: BFB	920		788.6		117	54	150			

Sample ID	1704A78-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	Base@16' (5-pt)	Batch ID:	G42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331531	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.9	19.72	0	93.3	61.3	150	5.01	20	
Surr: BFB	900		788.6		114	54	150	0	0	

Sample ID	MB-31392	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	31392	RunNo:	42346					
Prep Date:	4/24/2017	Analysis Date:	4/25/2017	SeqNo:	1331541	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		102	54	150			

Sample ID	LCS-31392	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	31392	RunNo:	42346					
Prep Date:	4/24/2017	Analysis Date:	4/25/2017	SeqNo:	1331542	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		111	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 |

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331563	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		109	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331564	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.7	80	120			
Toluene	0.93	0.050	1.000	0	92.8	80	120			
Ethylbenzene	0.93	0.050	1.000	0	92.8	80	120			
Xylenes, Total	2.8	0.10	3.000	0	94.8	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		113	66.6	132			

Sample ID	1704A78-002AMS	SampType:	MS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	North Wall (5-pt)	Batch ID:	B42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331565	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.59	0.016	0.6553	0	89.6	61.5	138			
Toluene	0.60	0.033	0.6553	0	91.5	71.4	127			
Ethylbenzene	0.61	0.033	0.6553	0	93.0	70.9	132			
Xylenes, Total	1.9	0.066	1.966	0	94.4	76.2	123			
Surr: 4-Bromofluorobenzene	0.76		0.6553		115	66.6	132			

Sample ID	1704A78-002AMSD	SampType:	MSD	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	North Wall (5-pt)	Batch ID:	B42346	RunNo:	42346					
Prep Date:		Analysis Date:	4/25/2017	SeqNo:	1331566	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.57	0.016	0.6553	0	87.3	61.5	138	2.52	20	
Toluene	0.58	0.033	0.6553	0	88.6	71.4	127	3.19	20	
Ethylbenzene	0.59	0.033	0.6553	0	89.8	70.9	132	3.57	20	
Xylenes, Total	1.8	0.066	1.966	0	91.7	76.2	123	2.95	20	
Surr: 4-Bromofluorobenzene	0.73		0.6553		112	66.6	132	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#: 1704A78

26-Apr-17

Client: Blagg Engineering

Project: State COM H 9

Sample ID	MB-31392	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	31392	RunNo:	42346					
Prep Date:	4/24/2017	Analysis Date:	4/25/2017	SeqNo:	1331567	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		111	66.6	132			

Sample ID	LCS-31392	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	31392	RunNo:	42346					
Prep Date:	4/24/2017	Analysis Date:	4/25/2017	SeqNo:	1331568	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		112	66.6	132			

## 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: 1704A78

RcptNo: 1

Received By: Lindsay Mangin

4/25/2017 7:15:00 AM

Completed By: Lindsay Mangin

4/25/2017 7:28:12 AM

Reviewed By: ENM

4/25/17

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			

# Chain-of-Custody Record

Client: **BP America**

Mailing Address: **Blatt Engineering Inc.**

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:

**STATE CON H 9**

Project #:

Project Manager:

**J. Butts**

Sampler: **J. Butts**

Container Type and #

Preservative Type

HEADING

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

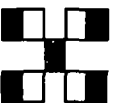
DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME



**HALL ENVIRONMENTAL ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

<input checked="" type="checkbox"/>	BTEX + MTBE + TPB's (8021)
<input checked="" type="checkbox"/>	BTEX + MTBE + TPH (Gas only)
<input checked="" type="checkbox"/>	TPH 8015B (GRO / DRO / MRO)
<input checked="" type="checkbox"/>	TPH (Method 418.1)
<input checked="" type="checkbox"/>	EDB (Method 504.1)
<input checked="" type="checkbox"/>	PAH's (8310 or 8270 SIMS)
<input checked="" type="checkbox"/>	RCRA 8 Metals
<input checked="" type="checkbox"/>	Anions (F, Cl, NO <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
<input checked="" type="checkbox"/>	8081 Pesticides / 8082 PCB's
<input checked="" type="checkbox"/>	8260B (VOA)
<input checked="" type="checkbox"/>	8270 (Semi-VOA)
<input checked="" type="checkbox"/>	CHLORIDE
<input checked="" type="checkbox"/>	Air Bubbles (Y or N)

X

X

X

X

X

X

X

X

X

X

X

X

Remarks:

**Bill BP Contact: Steve Wastal**

**UD: VBEEB50PL6**

Relinquished by:

Relinquished by:

Relinquished by:

Relinquished by:

Received by:

Received by:

Received by:

Received by:

Date:

Date:

Date:

Date:

Time:

Time:

Time:

Time:

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



*Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [www.hallenvironmental.com](http://www.hallenvironmental.com)*

April 28, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL:

FAX

RE: State Com H9

OrderNo.: 1704B31

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 8 sample(s) on 4/26/2017 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109



# Hall Environmental Analysis Laboratory, Inc.

## Analytical Report

Lab Order 1704B31

Date Reported: 4/28/2017

CLIENT: Blagg Engineering

Client Sample ID: TSP-1

Project: State Com H9

Collection Date: 4/25/2017 1:10:00 PM

Lab ID: 1704B31-001

Matrix: MEOH (SOIL)

Received Date: 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/26/2017 11:31:50 AM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: TOM
Diesel Range Organics (DRO)	58	9.6		mg/Kg	1	4/26/2017 11:12:10 AM	31426
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2017 11:12:10 AM	31426
Surr: DNOP	105	70-130		%Rec	1	4/26/2017 11:12:10 AM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: NSB
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/26/2017 10:31:00 AM	SG42379
Surr: BFB	101	54-150		%Rec	5	4/26/2017 10:31:00 AM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: NSB
Benzene	ND	0.092		mg/Kg	5	4/26/2017 10:31:00 AM	B42379
Toluene	ND	0.18		mg/Kg	5	4/26/2017 10:31:00 AM	B42379
Ethylbenzene	ND	0.18		mg/Kg	5	4/26/2017 10:31:00 AM	B42379
Xylenes, Total	ND	0.37		mg/Kg	5	4/26/2017 10:31:00 AM	B42379
Surr: 4-Bromofluorobenzene	112	66.6-132		%Rec	5	4/26/2017 10:31:00 AM	B42379

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

# Analytical Report

Lab Order 1704B31

Date Reported: 4/28/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-2

Project: State Com H9

Collection Date: 4/25/2017 1:13:00 PM

Lab ID: 1704B31-002

Matrix: MEOH (SOIL)

Received Date: 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 11:44:14 AM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	120	10		mg/Kg	1	4/26/2017 11:34:09 AM	31426
Motor Oil Range Organics (MRO)	59	50		mg/Kg	1	4/26/2017 11:34:09 AM	31426
Surr: DNOP	109	70-130		%Rec	1	4/26/2017 11:34:09 AM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/26/2017 10:55:00 AM	SG42379
Surr: BFB	103	54-150		%Rec	5	4/26/2017 10:55:00 AM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.089		mg/Kg	5	4/26/2017 10:55:00 AM	B42379
Toluene	ND	0.18		mg/Kg	5	4/26/2017 10:55:00 AM	B42379
Ethylbenzene	ND	0.18		mg/Kg	5	4/26/2017 10:55:00 AM	B42379
Xylenes, Total	ND	0.36		mg/Kg	5	4/26/2017 10:55:00 AM	B42379
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	5	4/26/2017 10:55:00 AM	B42379

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

<b>Qualifiers:</b>	*	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.****Analytical Report**

Lab Order 1704B31

Date Reported: 4/28/2017

**CLIENT:** Blagg Engineering**Client Sample ID:** TSP-3**Project:** State Com H9**Collection Date:** 4/25/2017 1:16:00 PM**Lab ID:** 1704B31-003**Matrix:** MEOH (SOIL)**Received Date:** 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 11:56:39 AM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	72	9.9		mg/Kg	1	4/26/2017 11:56:01 AM	31426
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/26/2017 11:56:01 AM	31426
Surr: DNOP	107	70-130		%Rec	1	4/26/2017 11:56:01 AM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/26/2017 11:19:02 AM	SG42379
Surr: BFB	100	54-150		%Rec	5	4/26/2017 11:19:02 AM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.091		mg/Kg	5	4/26/2017 11:19:02 AM	B42379
Toluene	ND	0.18		mg/Kg	5	4/26/2017 11:19:02 AM	B42379
Ethylbenzene	ND	0.18		mg/Kg	5	4/26/2017 11:19:02 AM	B42379
Xylenes, Total	ND	0.36		mg/Kg	5	4/26/2017 11:19:02 AM	B42379
Surr: 4-Bromofluorobenzene	111	66.6-132		%Rec	5	4/26/2017 11:19:02 AM	B42379

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

<b>Qualifiers:</b>	* 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.

## Analytical Report

Lab Order 1704B31

Date Reported: 4/28/2017

CLIENT: Blagg Engineering

Client Sample ID: TSP-4

Project: State Com H9

Collection Date: 4/25/2017 1:19:00 PM

Lab ID: 1704B31-004

Matrix: MEOH (SOIL)

Received Date: 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 12:09:03 PM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	96	9.6		mg/Kg	1	4/26/2017 12:17:45 PM	31426
Motor Oil Range Organics (MRO)	57	48		mg/Kg	1	4/26/2017 12:17:45 PM	31426
Surr: DNOP	103	70-130		%Rec	1	4/26/2017 12:17:45 PM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	4/26/2017 11:43:02 AM	SG42379
Surr: BFB	103	54-150		%Rec	5	4/26/2017 11:43:02 AM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.096		mg/Kg	5	4/26/2017 11:43:02 AM	B42379
Toluene	ND	0.19		mg/Kg	5	4/26/2017 11:43:02 AM	B42379
Ethylbenzene	ND	0.19		mg/Kg	5	4/26/2017 11:43:02 AM	B42379
Xylenes, Total	ND	0.38		mg/Kg	5	4/26/2017 11:43:02 AM	B42379
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	5	4/26/2017 11:43:02 AM	B42379

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

**Analytical Report**

Lab Order 1704B31

Date Reported: 4/28/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** TSP-5**Project:** State Com H9**Collection Date:** 4/25/2017 1:22:00 PM**Lab ID:** 1704B31-005**Matrix:** MEOH (SOIL)**Received Date:** 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 12:46:17 PM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	34	9.6		mg/Kg	1	4/26/2017 12:39:43 PM	31426
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2017 12:39:43 PM	31426
Surr: DNOP	101	70-130		%Rec	1	4/26/2017 12:39:43 PM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	19		mg/Kg	5	4/26/2017 12:07:13 PM	SG42379
Surr: BFB	99.5	54-150		%Rec	5	4/26/2017 12:07:13 PM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.093		mg/Kg	5	4/26/2017 12:07:13 PM	B42379
Toluene	ND	0.19		mg/Kg	5	4/26/2017 12:07:13 PM	B42379
Ethylbenzene	ND	0.19		mg/Kg	5	4/26/2017 12:07:13 PM	B42379
Xylenes, Total	ND	0.37		mg/Kg	5	4/26/2017 12:07:13 PM	B42379
Surr: 4-Bromofluorobenzene	108	66.6-132		%Rec	5	4/26/2017 12:07:13 PM	B42379

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

<b>Qualifiers:</b>	* 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

# Analytical Report

Lab Order 1704B31

Date Reported: 4/28/2017

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-6

Project: State Com H9

Collection Date: 4/25/2017 1:25:00 PM

Lab ID: 1704B31-006

Matrix: MEOH (SOIL)

Received Date: 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 12:58:41 PM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	60	9.6		mg/Kg	1	4/26/2017 1:01:39 PM	31426
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2017 1:01:39 PM	31426
Surr: DNOP	103	70-130		%Rec	1	4/26/2017 1:01:39 PM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	17		mg/Kg	5	4/26/2017 12:31:27 PM	SG42379
Surr: BFB	99.8	54-150		%Rec	5	4/26/2017 12:31:27 PM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.085		mg/Kg	5	4/26/2017 12:31:27 PM	B42379
Toluene	ND	0.17		mg/Kg	5	4/26/2017 12:31:27 PM	B42379
Ethylbenzene	ND	0.17		mg/Kg	5	4/26/2017 12:31:27 PM	B42379
Xylenes, Total	ND	0.34		mg/Kg	5	4/26/2017 12:31:27 PM	B42379
Surr: 4-Bromofluorobenzene	107	66.6-132		%Rec	5	4/26/2017 12:31:27 PM	B42379

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

<b>Qualifiers:</b>	*	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.****Analytical Report**

Lab Order 1704B31

Date Reported: 4/28/2017

**CLIENT:** Blagg Engineering**Client Sample ID:** TSP-7**Project:** State Com H9**Collection Date:** 4/25/2017 1:28:00 PM**Lab ID:** 1704B31-007**Matrix:** MEOH (SOIL)**Received Date:** 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 1:11:06 PM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	73	9.6		mg/Kg	1	4/26/2017 1:23:41 PM	31426
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/26/2017 1:23:41 PM	31426
Surr: DNOP	103	70-130		%Rec	1	4/26/2017 1:23:41 PM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/26/2017 12:55:38 PM	SG42379
Surr: BFB	99.9	54-150		%Rec	5	4/26/2017 12:55:38 PM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.089		mg/Kg	5	4/26/2017 12:55:38 PM	B42379
Toluene	ND	0.18		mg/Kg	5	4/26/2017 12:55:38 PM	B42379
Ethylbenzene	ND	0.18		mg/Kg	5	4/26/2017 12:55:38 PM	B42379
Xylenes, Total	ND	0.36		mg/Kg	5	4/26/2017 12:55:38 PM	B42379
Surr: 4-Bromofluorobenzene	110	66.6-132		%Rec	5	4/26/2017 12:55:38 PM	B42379

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

<b>Qualifiers:</b>	*	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

**Analytical Report**

Lab Order 1704B31

Date Reported: 4/28/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** TSP-8**Project:** State Com H9**Collection Date:** 4/25/2017 1:31:00 PM**Lab ID:** 1704B31-008**Matrix:** MEOH (SOIL)**Received Date:** 4/26/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/26/2017 1:23:31 PM	31436
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	49	9.9		mg/Kg	1	4/26/2017 1:45:40 PM	31426
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/26/2017 1:45:40 PM	31426
Surr: DNOP	102	70-130		%Rec	1	4/26/2017 1:45:40 PM	31426
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	18		mg/Kg	5	4/26/2017 1:19:45 PM	SG42379
Surr: BFB	96.9	54-150		%Rec	5	4/26/2017 1:19:45 PM	SG42379
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.091		mg/Kg	5	4/26/2017 1:19:45 PM	B42379
Toluene	ND	0.18		mg/Kg	5	4/26/2017 1:19:45 PM	B42379
Ethylbenzene	ND	0.18		mg/Kg	5	4/26/2017 1:19:45 PM	B42379
Xylenes, Total	ND	0.36		mg/Kg	5	4/26/2017 1:19:45 PM	B42379
Surr: 4-Bromofluorobenzene	106	66.6-132		%Rec	5	4/26/2017 1:19:45 PM	B42379

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

<b>Qualifiers:</b>	* 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#: 1704B31

28-Apr-17

Client: Blagg Engineering

Project: State Com H9

Sample ID	MB-31436	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31436	RunNo:	42382					
Prep Date:	4/26/2017	Analysis Date:	4/26/2017	SeqNo:	1332968	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31436	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31436	RunNo:	42382					
Prep Date:	4/26/2017	Analysis Date:	4/26/2017	SeqNo:	1332969	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	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                                    |
| 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#: 1704B31

28-Apr-17

Client: Blagg Engineering

Project: State Com H9

Sample ID	LCS-31426		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31426		RunNo: 42362					
Prep Date:	4/26/2017		Analysis Date: 4/26/2017		SeqNo: 1331951		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	63.8	116			
Surr: DNOP	4.7		5.000		93.5	70	130			

Sample ID	MB-31426		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31426		RunNo: 42362					
Prep Date:	4/26/2017		Analysis Date: 4/26/2017		SeqNo: 1331952		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	9.8		10.00		98.2	70	130			

Sample ID	LCS-31439		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31439		RunNo: 42363					
Prep Date:	4/26/2017		Analysis Date: 4/26/2017		SeqNo: 1332305		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.3		5.000		86.0	70	130			

Sample ID	MB-31439		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31439		RunNo: 42363					
Prep Date:	4/26/2017		Analysis Date: 4/26/2017		SeqNo: 1332306		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.1		10.00		80.6	70	130			

Sample ID	LCS-31410		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 31410		RunNo: 42363					
Prep Date:	4/25/2017		Analysis Date: 4/26/2017		SeqNo: 1332922		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		89.5	70	130			

Sample ID	MB-31410		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 31410		RunNo: 42363					
Prep Date:	4/25/2017		Analysis Date: 4/26/2017		SeqNo: 1332923		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		81.8	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                                    |
| 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#: 1704B31

28-Apr-17

Client: Blagg Engineering

Project: State Com H9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	SG42379	RunNo:	42379					
Prep Date:		Analysis Date:	4/26/2017	SeqNo:	1332720	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	1000		1000		101	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	SG42379	RunNo:	42379					
Prep Date:		Analysis Date:	4/26/2017	SeqNo:	1332721	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	98.7	76.4	125			
Surr: BFB	1200		1000		116	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#: 1704B31

28-Apr-17

Client: Blagg Engineering

Project: State Com H9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B42379	RunNo:	42379					
Prep Date:		Analysis Date:	4/26/2017	SeqNo:	1332736	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		112	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B42379	RunNo:	42379					
Prep Date:		Analysis Date:	4/26/2017	SeqNo:	1332737	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	80	120			
Toluene	0.92	0.050	1.000	0	91.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	93.9	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	66.6	132			

## 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: 1704B31

RcptNo: 1

Received By: Sophia Campuzano

4/26/2017 7:00:00 AM

*Sophia Campuzano*

Completed By: Lindsay Mangin

4/26/2017 7:43:48 AM

*Lindsay Mangin*

Reviewed By: ENM

04/26/17

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.4	Good	Yes			

# Chain-of-Custody Record

Client: **BP AMERICA**

**Blagg Engineering Inc.**

Mailing Address:

Phone #: **(505) 320-1103**

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time: **SAME DAY**

☐ Standard ☒ Rush

Project Name:

**STATE COM H 9**

Project #:

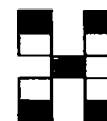
Project Manager:

**J. Blagg**

Sampler: **J. Blagg**

On-site: **NO**

Sample Temperature: **15**



**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	BEAL No	BTEX + MTBE (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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORANE	Air Bubbles (Y or N)
4/25/17	1310	SOIL	TSP-1	4oz x1	COOL	170-1831	-001	X	X									X	
	1313		TSP-2				-002												
	1316		TSP-3				-003												
	1319		TSP-4				-004												
	1322		TSP-5				-005												
	1325		TSP-6				-006												
	1328		TSP-7				-007												
	1331		TSP-8				-008												

Date: **4/25/17** Time: **1553** Relinquished by: **JH Olyy**

Received by: **Christina Waelen** Date: **4/25/17** Time: **1553**

Remarks: **Bill BP** Contact: **Steve Maska**

Date: **4/25/17** Time: **1847** Relinquished by: **Christina Waelen**

Received by: **Sophy C...** Date: **04/26/17** Time: **0700**

VID: **VBEEBSOPL6**

Date: **4/25/17** Time: **1847** Relinquished by: **Christina Waelen**

Received by: **Sophy C...** Date: **04/26/17** Time: **0700**

**Samples treated with H<sub>2</sub>O<sub>2</sub>**



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

April 28, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL:

FAX

RE: State Com H 9

OrderNo.: 1704C05

Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 4/27/2017 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

**Analytical Report**

Lab Order 1704C05

Date Reported: 4/28/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** TSP-2R**Project:** State Com H 9**Collection Date:** 4/26/2017 3:50:00 PM**Lab ID:** 1704C05-001**Matrix:** MEOH (SOIL)**Received Date:** 4/27/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/27/2017 11:43:50 AM	31463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	49	9.4		mg/Kg	1	4/27/2017 9:02:47 AM	31461
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/27/2017 9:02:47 AM	31461
Surr: DNOP	86.1	70-130		%Rec	1	4/27/2017 9:02:47 AM	31461
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/27/2017 10:52:27 AM	G42416
Surr: BFB	120	54-150		%Rec	1	4/27/2017 10:52:27 AM	G42416
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	4/27/2017 10:52:27 AM	B42416
Toluene	ND	0.035		mg/Kg	1	4/27/2017 10:52:27 AM	B42416
Ethylbenzene	ND	0.035		mg/Kg	1	4/27/2017 10:52:27 AM	B42416
Xylenes, Total	ND	0.070		mg/Kg	1	4/27/2017 10:52:27 AM	B42416
Surr: 4-Bromofluorobenzene	119	66.6-132		%Rec	1	4/27/2017 10:52:27 AM	B42416

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

<b>Qualifiers:</b>	*	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

**Analytical Report**

Lab Order 1704C05

Date Reported: 4/28/2017

**Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Blagg Engineering**Client Sample ID:** TSP-4R**Project:** State Com H 9**Collection Date:** 4/26/2017 4:00:00 PM**Lab ID:** 1704C05-002**Matrix:** MEOH (SOIL)**Received Date:** 4/27/2017 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>MRA</b>
Chloride	ND	30		mg/Kg	20	4/27/2017 11:56:14 AM	31463
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	34	9.3		mg/Kg	1	4/27/2017 9:30:04 AM	31461
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	4/27/2017 9:30:04 AM	31461
Surr: DNOP	86.7	70-130		%Rec	1	4/27/2017 9:30:04 AM	31461
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	4/27/2017 11:16:38 AM	G42416
Surr: BFB	117	54-150		%Rec	1	4/27/2017 11:16:38 AM	G42416
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	4/27/2017 11:16:38 AM	B42416
Toluene	ND	0.035		mg/Kg	1	4/27/2017 11:16:38 AM	B42416
Ethylbenzene	ND	0.035		mg/Kg	1	4/27/2017 11:16:38 AM	B42416
Xylenes, Total	ND	0.070		mg/Kg	1	4/27/2017 11:16:38 AM	B42416
Surr: 4-Bromofluorobenzene	114	66.6-132		%Rec	1	4/27/2017 11:16:38 AM	B42416

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

<b>Qualifiers:</b>	*	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#: 1704C05

28-Apr-17

Client: Blagg Engineering

Project: State Com H 9

Sample ID	MB-31463	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31463	RunNo:	42410					
Prep Date:	4/27/2017	Analysis Date:	4/27/2017	SeqNo:	1333834	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31463	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	31463	RunNo:	42410					
Prep Date:	4/27/2017	Analysis Date:	4/27/2017	SeqNo:	1333835	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	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                                    |
| 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#: 1704C05

28-Apr-17

Client: Blagg Engineering

Project: State Com H 9

Sample ID	LCS-31461	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31461	RunNo:	42401					
Prep Date:	4/27/2017	Analysis Date:	4/27/2017	SeqNo:	1333045	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.0	63.8	116			
Surr: DNOP	4.2		5.000		85.0	70	130			

Sample ID	MB-31461	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31461	RunNo:	42401					
Prep Date:	4/27/2017	Analysis Date:	4/27/2017	SeqNo:	1333046	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		100	70	130			

Sample ID	LCS-31456	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	31456	RunNo:	42401					
Prep Date:	4/26/2017	Analysis Date:	4/27/2017	SeqNo:	1333965	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.8		5.000		95.7	70	130			

Sample ID	MB-31456	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	31456	RunNo:	42401					
Prep Date:	4/26/2017	Analysis Date:	4/27/2017	SeqNo:	1333966	Units:	%Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		107	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                                    |
| 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#: 1704C05

28-Apr-17

Client: Blagg Engineering

Project: State Com H 9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G42416	RunNo:	42416					
Prep Date:		Analysis Date:	4/27/2017	SeqNo:	1333745	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	1200		1000		116	54	150			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G42416	RunNo:	42416					
Prep Date:		Analysis Date:	4/27/2017	SeqNo:	1333746	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	76.4	125			
Surr: BFB	1200		1000		115	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 |



# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1704C05

28-Apr-17

Client: Blagg Engineering

Project: State Com H 9

Sample ID	RB	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	B42416	RunNo:	42416					
Prep Date:		Analysis Date:	4/27/2017	SeqNo:	1333768	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	1.3		1.000		128	66.6	132			

Sample ID	100NG BTEX LCS	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	B42416	RunNo:	42416					
Prep Date:		Analysis Date:	4/27/2017	SeqNo:	1333819	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.7	80	120			
Toluene	0.95	0.050	1.000	0	94.9	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.7	80	120			
Surr: 4-Bromofluorobenzene	1.2		1.000		119	66.6	132			

## 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: 1704C05

RcptNo: 1

Received By: Sophia Campuzano

4/27/2017 7:00:00 AM

*Sophia Campuzano*

Completed By: Lindsay Mangin

4/27/2017 7:25:33 AM

*Lindsay Mangin*

Reviewed By:

*[Signature]* SRE

04/27/17

### 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  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? 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:	<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	4.6	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:	SAME DAY
Client:	BP AMERICA	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush
	BLADE ENGINEERING INC.	Project Name:	
Mailing Address:		STATE COM HQ	
		Project #:	
Phone #:	(505) 320-1183	Project Manager:	
email or Fax#:		J. BLADE	
QA/QC Package:		Sampler:	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	J. BLADE	
Accreditation		On Site: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	Sample Signature: J. BLADE	
<input type="checkbox"/> EDD (Type)			

☐ Standard ☒ Rush

Project Name:

STATE COM H9

Project #:

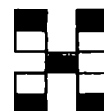
**Project Manager.**

J. Blalock

Sampler: J. Blab

Sample temperature: 4.6

SAME  
DAY-



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

**www.hallenvironmental.com**

4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

	X	X	BTEX + MTBE + THMs (8021)
			BTEX + MTBE + TPH (Gas only)
	X	X	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 <sub>3</sub> , NO <sub>2</sub> , PO <sub>4</sub> , SO <sub>4</sub> )
			8081 Pesticides / 8082 PCB's
			8260B (VOA)
			8270 (Semi-VOA)
	X	X	CHLORIDE
			Air Rubbles (Y or N)

Date: 4/26/2017	Time: 1700	Relinquished by: Jeff Blagg	Received by: Christina White	Date 4/26/2017	Time 1700
Date: 4/26/17	Time: 1813	Relinquished by: Christina White	Received by: Sophi Cruz	Date 04/27/17	Time 0700

Remarks: Bill BP Contact: Steve Moskowitz  
VID: VBEEBSO PLG

Samples Treated with  $H_2O_2$

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.