

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

Form C-141  
Revised August 8, 2011

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

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: 380 Airport Rd., Durango, CO 81303	Telephone No.: 505-330-9179
Facility Name: Gartner A 005R	Facility Type: Natural gas well
Surface Owner: Federal	Mineral Owner: Federal
API No. 3004526961	

**LOCATION OF RELEASE**

Unit Letter L	Section 27	Township 30N	Range 08W	Feet from the 1,620	North/South Line South	Feet from the 1,005	East/West Line West	County: San Juan
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Latitude 36.78041° Longitude -107.66881°

**NATURE OF RELEASE**

Type of Release: Unknown - hydrocarbon	Volume of Release: unknown	Volume Recovered: none
Source of Release: Unknown - suspect earthen pit; 95 bbl BGT	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: January 2, 2018
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom? Steve Moskal	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.* During the closure of a below grade tank sampling indicated what appears to be hydrocarbon impacts to the soil, likely associated with an earthen pit. All excavation sidewalls and base were sampled with results below the site closure standard. Approximately 700 cubic yards of soil was successfully treated and placed back into the excavation.		
Describe Area Affected and Cleanup Action Taken.* BP proposes to employ soil shredding to remediate hydrocarbon impacted soils at the location. The area of concern was excavated and soil treated onsite. All excavation sidewalls and base were sampled with results below the site closure standard. Approximately 700 cubic yards of soil was successfully treated and placed back into the excavation. BP requests no further action at this time.		
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: <u>10/21/18</u>	Expiration Date:
E-mail Address: steven.moskal@bp.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: August 22, 2018	Phone: 505-330-9179	

\* Attach Additional Sheets If Necessary

NCS1802249990

NMOCD  
AUG 22 2018  
DISTRICT III 41

**BP America**  
**Gartner A 5R**  
(L) Sec 27 – T30N – R8W  
San Juan County, New Mexico  
API: 30-045-26961

Summary Record of Impact Remediation

January 2, 2018 Hydrocarbon impacted soils discovered during closure sampling of a 95 barrel below grade tank (BGT). Samples collected of impacted media immediately below the BGT at 5'. Vertical delineation grab sample collected at the 12' depth below the BGT.

January 4, 2018 Laboratory results received from BGT sampling. The 5-point composite of hydrocarbon impacted media tested at 1,788 mg/kg TPH and the sample collected at 12' tested at 253 mg/kg. NMOCD/BLM site closure standard determined at 1,000 mg/kg TPH based on:

- Distance to nearest water source: > 1,000'
- Distance to groundwater: > 100'
- Distance to surface water (dry wash): < 1,000' and > 200'

April 17, 2018 Initiate remediation via soil excavation and on-site shredding.

April 18, 2018 Complete excavation of impacted media and conduct closure sampling. Final excavation 36'x36'x12' deep. Begin soil shredding.

April 19, 2018 Receive rush lab results from closure sampling. All samples pass site closure standard.

Excavation Closure Sample Laboratory Analytical Results  
April 19, 2018

Sample ID (5-pt Comps)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
North Wall (3'-11')	2.9	86	ND	ND	46
East Wall (3'-11')	19	ND	ND	ND	ND
South Wall (3'-11')	5.5	ND	ND	ND	ND
West Wall (3'-11')	0.4	ND	ND	ND	ND
Base @ 12'	209	290	11.46	0.26	ND

April 20, 2018 Conduct treated pile sampling (7 each x 100 cubic yard piles).

April 21, 2018 Receive treated pile laboratory reports. All samples pass site closure standard.

Treated Soil Pile Laboratory Analytical Results  
April 20, 2018

Treated Pile ID (5-pt Comps)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
TSP-1	26.9	48	1.4	ND	ND
TSP-2	17.0	76	1.6	ND	ND
TSP-3	11.9	57	1.2	ND	ND
TSP-4	24.9	95	4.059	ND	ND
TSP-5	68	108	3.801	0.031	ND
TSP-6	16.6	80	2.680	ND	ND
TSP-7	16.3	62	2.867	0.021	ND

April 24, 2018 Complete excavation backfilling.

August 2, 2018 Conduct treated pile stacking area vadose zone sampling (2 each 5-point composites).

August 16, 2018 Receive laboratory analytical test reports from vadose zone sampling. All samples pass.

Treated Pile Stacking Area Vadose Zone Laboratory Analytical Results  
August 2, 2018

Vadose Zone ID (5-pt Comps)	Field OVM (ppm)	TPH (GRO+DRO+MRO) (mg/Kg)	Total BTEX (mg/Kg)	Benzene (mg/Kg)	Chloride (mg/Kg)
TSP BG-1(East)	0.0	ND	ND	ND	ND
TSP BG-2(West)	0.1	ND	ND	ND	ND

Gartner A 005F  
(L) Sec 27 - T30N - R6W  
API: 30-045-26961



April 18, 2017  
Excavation:  
36' x 36' x 12' Deep

Gartner A 5R

Closure Sampling - April 18, 2018  
All 5-Point Composites:  
North Wall (3'-11") OVM = 2.9 ppm, TPH = 86 ppm  
East Wall (3'-11") OVM = 19 ppm, TPH = ND  
South Wall (3'-11") OVM = 5.5 ppm, TPH = ND  
West Wall (3'-11") OVM = 0.4 ppm, TPH = ND  
Base @ 12" OVM = 209 ppm, TPH = 290 ppm

100 ft



Google earth



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 20, 2018

Steve Moskal

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL:

FAX

RE: Gartner A 5R

OrderNo.: 1804A25

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 5 sample(s) on 4/19/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: North Wall (3-11)  
 Project: Gartner A 5R Collection Date: 4/18/2018 2:05:00 PM  
 Lab ID: 1804A25-001 Matrix: MEOH (SOIL) Received Date: 4/19/2018 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	46	30		mg/Kg	20	4/19/2018 11:08:56 AM	37692
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	36	9.7		mg/Kg	1	4/19/2018 10:26:12 AM	37688
Motor Oil Range Organics (MRO)	50	48		mg/Kg	1	4/19/2018 10:26:12 AM	37688
Surr: DNOP	93.2	70-130		%Rec	1	4/19/2018 10:26:12 AM	37688
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	4/19/2018 9:56:41 AM	G50698
Surr: BFB	85.9	15-316		%Rec	1	4/19/2018 9:56:41 AM	G50698
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	4/19/2018 9:56:41 AM	B50698
Toluene	ND	0.034		mg/Kg	1	4/19/2018 9:56:41 AM	B50698
Ethylbenzene	ND	0.034		mg/Kg	1	4/19/2018 9:56:41 AM	B50698
Xylenes, Total	ND	0.069		mg/Kg	1	4/19/2018 9:56:41 AM	B50698
Surr: 4-Bromofluorobenzene	77.3	80-120	S	%Rec	1	4/19/2018 9:56:41 AM	B50698

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering  
 Project: Gartner A 5R  
 Lab ID: 1804A25-002

Client Sample ID: East Wall (3-11)  
 Collection Date: 4/18/2018 2:08:00 PM  
 Matrix: MEOH (SOIL) Received Date: 4/19/2018 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	4/19/2018 11:21:20 AM	37692
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	4/19/2018 10:49:59 AM	37688
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	4/19/2018 10:49:59 AM	37688
Surr: DNOP	96.5	70-130		%Rec	1	4/19/2018 10:49:59 AM	37688
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	4/19/2018 10:20:14 AM	G50698
Surr: BFB	90.0	15-316		%Rec	1	4/19/2018 10:20:14 AM	G50698
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	4/19/2018 10:20:14 AM	B50698
Toluene	ND	0.036		mg/Kg	1	4/19/2018 10:20:14 AM	B50698
Ethylbenzene	ND	0.036		mg/Kg	1	4/19/2018 10:20:14 AM	B50698
Xylenes, Total	ND	0.071		mg/Kg	1	4/19/2018 10:20:14 AM	B50698
Surr: 4-Bromofluorobenzene	80.4	80-120		%Rec	1	4/19/2018 10:20:14 AM	B50698

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering

**Client Sample ID:** South Wall (3-11)

**Project:** Gartner A 5R

**Collection Date:** 4/18/2018 2:11:00 PM

**Lab ID:** 1804A25-003

**Matrix:** MEOH (SOIL)

**Received Date:** 4/19/2018 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	4/19/2018 11:33:45 AM	37692
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	4/19/2018 11:13:37 AM	37688
Motor Oil Range Organics (MRO)	ND	51		mg/Kg	1	4/19/2018 11:13:37 AM	37688
Surr: DNOP	89.3	70-130		%Rec	1	4/19/2018 11:13:37 AM	37688
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	4/19/2018 10:43:49 AM	G50698
Surr: BFB	88.1	15-316		%Rec	1	4/19/2018 10:43:49 AM	G50698
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	4/19/2018 10:43:49 AM	B50698
Toluene	ND	0.041		mg/Kg	1	4/19/2018 10:43:49 AM	B50698
Ethylbenzene	ND	0.041		mg/Kg	1	4/19/2018 10:43:49 AM	B50698
Xylenes, Total	ND	0.083		mg/Kg	1	4/19/2018 10:43:49 AM	B50698
Surr: 4-Bromofluorobenzene	80.9	80-120		%Rec	1	4/19/2018 10:43:49 AM	B50698

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: West Wall (3-11)

Project: Gartner A 5R

Collection Date: 4/18/2018 2:14:00 PM

Lab ID: 1804A25-004

Matrix: MEOH (SOIL)

Received Date: 4/19/2018 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	4/19/2018 11:46:10 AM	37692
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/19/2018 11:37:28 AM	37688
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	4/19/2018 11:37:28 AM	37688
Surr: DNOP	91.2	70-130		%Rec	1	4/19/2018 11:37:28 AM	37688
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	4/19/2018 11:07:23 AM	G50698
Surr: BFB	86.8	15-316		%Rec	1	4/19/2018 11:07:23 AM	G50698
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	4/19/2018 11:07:23 AM	B50698
Toluene	ND	0.037		mg/Kg	1	4/19/2018 11:07:23 AM	B50698
Ethylbenzene	ND	0.037		mg/Kg	1	4/19/2018 11:07:23 AM	B50698
Xylenes, Total	ND	0.073		mg/Kg	1	4/19/2018 11:07:23 AM	B50698
Surr: 4-Bromofluorobenzene	79.2	80-120	S	%Rec	1	4/19/2018 11:07:23 AM	B50698

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Client Sample ID: Base @12  
 Project: Gartner A 5R Collection Date: 4/18/2018 2:16:00 PM  
 Lab ID: 1804A25-005 Matrix: MEOH (SOIL) Received Date: 4/19/2018 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	4/19/2018 11:58:34 AM	37692
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	100	9.4		mg/Kg	1	4/19/2018 12:01:06 PM	37688
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/19/2018 12:01:06 PM	37688
Surr: DNOP	92.8	70-130		%Rec	1	4/19/2018 12:01:06 PM	37688
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	190	19		mg/Kg	5	4/19/2018 9:33:06 AM	G50698
Surr: BFB	191	15-316		%Rec	5	4/19/2018 9:33:06 AM	G50698
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.26	0.093		mg/Kg	5	4/19/2018 9:33:06 AM	B50698
Toluene	0.85	0.19		mg/Kg	5	4/19/2018 9:33:06 AM	B50698
Ethylbenzene	0.75	0.19		mg/Kg	5	4/19/2018 9:33:06 AM	B50698
Xylenes, Total	9.6	0.37		mg/Kg	5	4/19/2018 9:33:06 AM	B50698
Surr: 4-Bromofluorobenzene	86.9	80-120		%Rec	5	4/19/2018 9:33:06 AM	B50698

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

WO#: 1804A25

## Hall Environmental Analysis Laboratory, Inc.

20-Apr-18

Client: Blagg Engineering

Project: Gartner A 5R

Sample ID	<b>MB-37692</b>	SampType:	<b>mblk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37692</b>	RunNo:	<b>50704</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1645307</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-37692</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37692</b>	RunNo:	<b>50704</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1645308</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	90	110			

### Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1804A25

20-Apr-18

Client: Blagg Engineering

Project: Gartner A 5R

Sample ID	<b>LCS-37688</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37688</b>	RunNo:	<b>50692</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644090</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	97.7	70	130			
Surr: DNOP	4.0		5.000		80.7	70	130			

Sample ID	<b>MB-37688</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37688</b>	RunNo:	<b>50692</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644091</b>	Units:	<b>mg/Kg</b>			
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	9.6		10.00		96.1	70	130			

Sample ID	<b>1804A25-001AMS</b>	SampType:	<b>MS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>North Wall (3-11)</b>	Batch ID:	<b>37688</b>	RunNo:	<b>50693</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644421</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	74	9.7	48.59	35.68	79.1	55.8	125			
Surr: DNOP	4.3		4.859		88.4	70	130			

Sample ID	<b>1804A25-001AMSD</b>	SampType:	<b>MSD</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>North Wall (3-11)</b>	Batch ID:	<b>37688</b>	RunNo:	<b>50693</b>					
Prep Date:	<b>4/19/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644505</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	68	9.8	48.88	35.68	66.1	55.8	125	8.64	20	
Surr: DNOP	4.6		4.888		93.5	70	130	0	0	

Sample ID	<b>LCS-37670</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37670</b>	RunNo:	<b>50693</b>					
Prep Date:	<b>4/18/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644506</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.2		5.000		84.7	70	130			

Sample ID	<b>MB-37670</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37670</b>	RunNo:	<b>50693</b>					
Prep Date:	<b>4/18/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644507</b>	Units:	<b>%Rec</b>			
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
- PQL Practical Quantitative Limit
- 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#: 1804A25  
20-Apr-18

**Client:** Blagg Engineering  
**Project:** Gartner A 5R

Sample ID	<b>MB-37670</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37670</b>	RunNo:	<b>50693</b>					
Prep Date:	<b>4/18/2018</b>	Analysis Date:	<b>4/19/2018</b>	SeqNo:	<b>1644507</b>	Units:	<b>%Rec</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.6		10.00		96.1	70	130			

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1804A25  
20-Apr-18

Client: Blagg Engineering  
Project: Gartner A 5R

Sample ID <b>RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>G50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644629</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	850		1000		84.6	15	316			

Sample ID <b>2.5UG GRO LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>G50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644630</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	105	75.9	131			
Surr: BFB	980		1000		98.4	15	316			

Sample ID <b>1804A25-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>North Wall (3-11)</b>	Batch ID: <b>G50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644631</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.4	17.14	0	106	77.8	128			
Surr: BFB	730		685.4		106	15	316			

Sample ID <b>1804A25-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>North Wall (3-11)</b>	Batch ID: <b>G50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644632</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	18	3.4	17.14	0	105	77.8	128	0.417	20	
Surr: BFB	710		685.4		104	15	316	0	0	

### Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1804A25

20-Apr-18

Client: Blagg Engineering

Project: Gartner A 5R

Sample ID <b>RB</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>PBS</b>	Batch ID: <b>B50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644647</b>							Units: <b>mg/Kg</b>	
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	0.81		1.000		80.7	80	120			

Sample ID <b>100NG BTEX LCS</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>B50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644648</b>							Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.5	77.3	128			
Toluene	0.92	0.050	1.000	0	92.3	79.2	125			
Ethylbenzene	0.92	0.050	1.000	0	91.6	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	93.5	81.6	129			
Surr: 4-Bromofluorobenzene	0.81		1.000		81.3	80	120			

Sample ID <b>1804A25-002AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>East Wall (3-11)</b>	Batch ID: <b>B50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644649</b>							Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.018	0.7138	0	95.1	68.5	133			
Toluene	0.68	0.036	0.7138	0.006852	93.7	75	130			
Ethylbenzene	0.67	0.036	0.7138	0	93.3	79.4	128			
Xylenes, Total	2.0	0.071	2.141	0	95.4	77.3	131			
Surr: 4-Bromofluorobenzene	0.61		0.7138		85.4	80	120			

Sample ID <b>1804A25-002AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8021B: Volatiles</b>								
Client ID: <b>East Wall (3-11)</b>	Batch ID: <b>B50698</b>	RunNo: <b>50698</b>								
Prep Date:	Analysis Date: <b>4/19/2018</b>	SeqNo: <b>1644650</b>							Units: <b>mg/Kg</b>	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.66	0.018	0.7138	0	92.4	68.5	133	2.80	20	
Toluene	0.66	0.036	0.7138	0.006852	91.2	75	130	2.63	20	
Ethylbenzene	0.65	0.036	0.7138	0	91.3	79.4	128	2.23	20	
Xylenes, Total	2.0	0.071	2.141	0	93.2	77.3	131	2.34	20	
Surr: 4-Bromofluorobenzene	0.59		0.7138		83.0	80	120	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
- PQL Practical Quantitative Limit
- 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



# Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1804A25**

RcptNo: **1**

Received By: **Isaiah Ortiz** 4/19/2018 7:15:00 AM *IO*

Completed By: **Isaiah Ortiz** 4/19/2018 7:34:44 AM *IO*

Reviewed By: *572 04119118*  
*LB: ENM*

**Chain of Custody**

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

**Log In**

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

*ENM 4/19/18*  
 # of preserved bottles checked for pH: \_\_\_\_\_  
 Adjusted?  or >12 unless noted  
 Checked by: \_\_\_\_\_

**Special Handling (if applicable)**

15. 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:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

# Chain-of-Custody Record

Turn-Around Time:  
 Standard  Rush SAME DAY  
 Project Name:  
GARTNER A 5R  
 Project #:



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: BP AMERICA  
BLAGG ENGINEERING INC.  
 Mailing Address:  
 Phone #: (505) 320-1193  
 email or Fax#:  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Project Manager:  
STEVE MOSKAL  
 Sampler: JEFF BLAGG  
 On Ice:  Yes  No  
 Sample Temperature: 0.6-0.2(CF) 0.4

### Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <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)	CHLORIDE	Air Bubbles (Y or N)
X		X									X	

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4/18/2018	1405	SOIL	NORTH Wall (3'-11")	4oz x 1	COOL	1804A25 -001
	1409		EAST Wall (3'-11")			-002
	1411		SOUTH Wall (3'-11")			-003
	1414		West Wall (3'-11")			-004
	1416		BASE @ 12"			-005

Date: 4/18/2018 Time: 1647 Relinquished by: Jeff Blagg  
 Received by: Christa Wheeler Date: 4/18/2018 Time: 1647  
 Date: 4/18/18 Time: 1556 Relinquished by: Christa Wheeler  
 Received by: IA Date: 4/19/18 Time: 0715

Remarks: Bill BP  
CONTACT: STEVE MOSKAL  
WBS ELEMENT: LI-DOCT-E: GARTNER A5R  
All 5-pt Composites

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 24, 2018

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

RE: GARTNER A 5R

OrderNo.: 1804B34

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 7 sample(s) on 4/21/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 white background.

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering

**Client Sample ID:** TSP-1

**Project:** GARTNER A 5R

**Collection Date:** 4/20/2018 1:34:00 PM

**Lab ID:** 1804B34-001

**Matrix:** SOIL

**Received Date:** 4/21/2018 9:40:00 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	4/23/2018 11:42:23 AM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/23/2018 11:06:46 AM	37738
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/23/2018 11:06:46 AM	37738
Surr: DNOP	89.4	70-130		%Rec	1	4/23/2018 11:06:46 AM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	48	3.5		mg/Kg	1	4/23/2018 9:56:26 AM	37717
Surr: BFB	468	15-316	S	%Rec	1	4/23/2018 9:56:26 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.017		mg/Kg	1	4/23/2018 9:56:26 AM	37717
Toluene	ND	0.035		mg/Kg	1	4/23/2018 9:56:26 AM	37717
Ethylbenzene	ND	0.035		mg/Kg	1	4/23/2018 9:56:26 AM	37717
Xylenes, Total	1.4	0.069		mg/Kg	1	4/23/2018 9:56:26 AM	37717
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	4/23/2018 9:56:26 AM	37717

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: TSP-2

Project: GARTNER A 5R

Collection Date: 4/20/2018 1:38:00 PM

Lab ID: 1804B34-002

Matrix: SOIL

Received Date: 4/21/2018 9:40:00 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	4/23/2018 11:54:47 AM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	11	10		mg/Kg	1	4/23/2018 11:30:31 AM	37738
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/23/2018 11:30:31 AM	37738
Surr: DNOP	90.5	70-130		%Rec	1	4/23/2018 11:30:31 AM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	66	3.2		mg/Kg	1	4/23/2018 10:19:46 AM	37717
Surr: BFB	562	15-316	S	%Rec	1	4/23/2018 10:19:46 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.016		mg/Kg	1	4/23/2018 10:19:46 AM	37717
Toluene	ND	0.032		mg/Kg	1	4/23/2018 10:19:46 AM	37717
Ethylbenzene	ND	0.032		mg/Kg	1	4/23/2018 10:19:46 AM	37717
Xylenes, Total	1.6	0.064		mg/Kg	1	4/23/2018 10:19:46 AM	37717
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	4/23/2018 10:19:46 AM	37717

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order 1804B34

Date Reported: 4/24/2018

CLIENT: Blagg Engineering

Client Sample ID: TSP-3

Project: GARTNER A 5R

Collection Date: 4/20/2018 1:42:00 PM

Lab ID: 1804B34-003

Matrix: SOIL

Received Date: 4/21/2018 9:40:00 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	4/23/2018 12:07:12 PM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	4/23/2018 11:54:19 AM	37738
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	4/23/2018 11:54:19 AM	37738
Surr: DNOP	88.1	70-130		%Rec	1	4/23/2018 11:54:19 AM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	57	3.6		mg/Kg	1	4/23/2018 10:43:01 AM	37717
Surr: BFB	420	15-316	S	%Rec	1	4/23/2018 10:43:01 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.018		mg/Kg	1	4/23/2018 10:43:01 AM	37717
Toluene	ND	0.036		mg/Kg	1	4/23/2018 10:43:01 AM	37717
Ethylbenzene	ND	0.036		mg/Kg	1	4/23/2018 10:43:01 AM	37717
Xylenes, Total	1.2	0.071		mg/Kg	1	4/23/2018 10:43:01 AM	37717
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	4/23/2018 10:43:01 AM	37717

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering  
**Project:** GARTNER A 5R  
**Lab ID:** 1804B34-004

**Matrix:** SOIL

**Client Sample ID:** TSP-4  
**Collection Date:** 4/20/2018 1:46:00 PM  
**Received Date:** 4/21/2018 9:40:00 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	4/23/2018 12:19:37 PM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/23/2018 12:18:09 PM	37738
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/23/2018 12:18:09 PM	37738
Surr: DNOP	91.1	70-130		%Rec	1	4/23/2018 12:18:09 PM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	95	4.0		mg/Kg	1	4/23/2018 11:06:18 AM	37717
Surr: BFB	510	15-316	S	%Rec	1	4/23/2018 11:06:18 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.020		mg/Kg	1	4/23/2018 11:06:18 AM	37717
Toluene	0.089	0.040		mg/Kg	1	4/23/2018 11:06:18 AM	37717
Ethylbenzene	0.27	0.040		mg/Kg	1	4/23/2018 11:06:18 AM	37717
Xylenes, Total	3.7	0.080		mg/Kg	1	4/23/2018 11:06:18 AM	37717
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	4/23/2018 11:06:18 AM	37717

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering  
 Project: GARTNER A 5R  
 Lab ID: 1804B34-005

Matrix: SOIL

Client Sample ID: TSP-5  
 Collection Date: 4/20/2018 1:49:00 PM  
 Received Date: 4/21/2018 9:40:00 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	4/23/2018 12:32:02 PM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	13	9.9		mg/Kg	1	4/23/2018 12:41:55 PM	37738
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/23/2018 12:41:55 PM	37738
Surr: DNOP	91.8	70-130		%Rec	1	4/23/2018 12:41:55 PM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	95	3.6		mg/Kg	1	4/23/2018 11:29:30 AM	37717
Surr: BFB	608	15-316	S	%Rec	1	4/23/2018 11:29:30 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.031	0.018		mg/Kg	1	4/23/2018 11:29:30 AM	37717
Toluene	0.12	0.036		mg/Kg	1	4/23/2018 11:29:30 AM	37717
Ethylbenzene	0.25	0.036		mg/Kg	1	4/23/2018 11:29:30 AM	37717
Xylenes, Total	3.4	0.071		mg/Kg	1	4/23/2018 11:29:30 AM	37717
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	4/23/2018 11:29:30 AM	37717

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
	PQL	Practical Quantitative Limit	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering  
 Project: GARTNER A 5R  
 Lab ID: 1804B34-006

Matrix: SOIL

Client Sample ID: TSP-6  
 Collection Date: 4/20/2018 1:52:00 PM  
 Received Date: 4/21/2018 9:40:00 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	4/23/2018 12:44:26 PM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	4/23/2018 1:05:42 PM	37738
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	4/23/2018 1:05:42 PM	37738
Surr: DNOP	89.7	70-130		%Rec	1	4/23/2018 1:05:42 PM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	80	4.2		mg/Kg	1	4/23/2018 11:52:48 AM	37717
Surr: BFB	501	15-316	S	%Rec	1	4/23/2018 11:52:48 AM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	ND	0.021		mg/Kg	1	4/23/2018 11:52:48 AM	37717
Toluene	ND	0.042		mg/Kg	1	4/23/2018 11:52:48 AM	37717
Ethylbenzene	0.18	0.042		mg/Kg	1	4/23/2018 11:52:48 AM	37717
Xylenes, Total	2.5	0.084		mg/Kg	1	4/23/2018 11:52:48 AM	37717
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	4/23/2018 11:52:48 AM	37717

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering **Client Sample ID:** TSP-7  
**Project:** GARTNER A 5R **Collection Date:** 4/20/2018 1:55:00 PM  
**Lab ID:** 1804B34-007 **Matrix:** SOIL **Received Date:** 4/21/2018 9:40:00 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	4/23/2018 12:56:50 PM	37741
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>TOM</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	4/23/2018 1:29:35 PM	37738
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	4/23/2018 1:29:35 PM	37738
Surr: DNOP	90.6	70-130		%Rec	1	4/23/2018 1:29:35 PM	37738
<b>EPA METHOD 8015D: GASOLINE RANGE</b>							Analyst: <b>NSB</b>
Gasoline Range Organics (GRO)	62	3.1		mg/Kg	1	4/23/2018 12:16:07 PM	37717
Surr: BFB	465	15-316	S	%Rec	1	4/23/2018 12:16:07 PM	37717
<b>EPA METHOD 8021B: VOLATILES</b>							Analyst: <b>NSB</b>
Benzene	0.021	0.015		mg/Kg	1	4/23/2018 12:16:07 PM	37717
Toluene	0.066	0.031		mg/Kg	1	4/23/2018 12:16:07 PM	37717
Ethylbenzene	0.18	0.031		mg/Kg	1	4/23/2018 12:16:07 PM	37717
Xylenes, Total	2.6	0.061		mg/Kg	1	4/23/2018 12:16:07 PM	37717
Surr: 4-Bromofluorobenzene	114	80-120		%Rec	1	4/23/2018 12:16:07 PM	37717

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

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1804B34  
24-Apr-18

**Client:** Blagg Engineering  
**Project:** GARTNER A 5R

Sample ID	<b>MB-37741</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37741</b>	RunNo:	<b>50775</b>					
Prep Date:	<b>4/23/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1647500</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-37741</b>	SampType:	<b>ics</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37741</b>	RunNo:	<b>50775</b>					
Prep Date:	<b>4/23/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1647501</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.1	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
- PQL Practical Quantitative Limit
- 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#: 1804B34

24-Apr-18

**Client:** Blagg Engineering  
**Project:** GARTNER A 5R

Sample ID	<b>LCS-37738</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37738</b>	RunNo:	<b>50757</b>					
Prep Date:	<b>4/23/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1646530</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	70	130			
Surr: DNOP	3.8		5.000		76.9	70	130			

Sample ID	<b>MB-37738</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015M/D: Diesel Range Organics</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37738</b>	RunNo:	<b>50757</b>					
Prep Date:	<b>4/23/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1646531</b>	Units:	<b>mg/Kg</b>			
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	8.4		10.00		84.3	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
- PQL Practical Quantitative Limit
- 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#: 1804B34

24-Apr-18

Client: Blagg Engineering

Project: GARTNER A 5R

Sample ID <b>MB-37717</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>PBS</b>	Batch ID: <b>37717</b>	RunNo: <b>50769</b>								
Prep Date: <b>4/20/2018</b>	Analysis Date: <b>4/23/2018</b>	SeqNo: <b>1647174</b>			Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	860		1000		85.8	15	316			

Sample ID <b>LCS-37717</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015D: Gasoline Range</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>37717</b>	RunNo: <b>50769</b>								
Prep Date: <b>4/20/2018</b>	Analysis Date: <b>4/23/2018</b>	SeqNo: <b>1647175</b>			Units: <b>mg/Kg</b>					
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	75.9	131			
Surr: BFB	970		1000		97.5	15	316			

## Qualifiers:

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

# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 1804B34  
24-Apr-18

Client: Blagg Engineering  
Project: GARTNER A 5R

Sample ID	<b>MB-37717</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>37717</b>	RunNo:	<b>50769</b>					
Prep Date:	<b>4/20/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1647188</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		94.8	80	120			

Sample ID	<b>LCS-37717</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8021B: Volatiles</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>37717</b>	RunNo:	<b>50769</b>					
Prep Date:	<b>4/20/2018</b>	Analysis Date:	<b>4/23/2018</b>	SeqNo:	<b>1647189</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	77.3	128			
Toluene	1.0	0.050	1.000	0	104	79.2	125			
Ethylbenzene	1.0	0.050	1.000	0	103	80.7	127			
Xylenes, Total	3.2	0.10	3.000	0	106	81.6	129			
Surr: 4-Bromofluorobenzene	0.98		1.000		97.5	80	120			

### Qualifiers:

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



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: 1804B34

RcptNo: 1

Received By: **Isaiah Ortiz**

4/21/2018 9:40:00 AM

*IO*

Completed By: **Anne Thorne**

4/23/2018 6:50:32 AM

*Anne Thorne*

Reviewed By: *JMO*

4/23/18

### Chain of Custody

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

### Log In

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

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

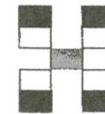
Person Notified: _____	Date: _____
By Whom: _____	Via: <input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding: _____	
Client Instructions: _____	

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Yes			

# Chain-of-Custody Record



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: **BP AMERICA**  
**BLACC ENGINEERING INC.**  
 Mailing Address:  
 Project #: **GARTNER A SR**  
 Project Manager: **STEVE MOSKAL**  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation:  
 NELAP  Other \_\_\_\_\_  
 EDD (Type) \_\_\_\_\_

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
4/20/2018	1334	Soil	TSP-1	4oz x 1	COOL	201
	1338		TSP-2			202
	1342		TSP-3			203
	1346		TSP-4			204
	1349		TSP-5			205
	1352		TSP-6			206
	1355		TSP-7			207

Analysis Request											
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BTEX + MTBE + WBS (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)	CHLORIDE
X	X										X

Date: 4/20/2018 Time: 1515 Relinquished by: *Jeff Blagg*  
 Date: 4/20/2018 Time: 1515 Received by: *[Signature]*  
 Date: 4/20/18 Time: 1846 Relinquished by: *[Signature]*  
 Date: 4/21/18 Time: 0940 Received by: *[Signature]*

Remarks: **Bill BP**  
**CONTACT: STEVE MOSKAL**  
**WBS ELEMENT: L1-00CT-E:GARTNERA5R**  
 NOTE: SAMPLES TREATED WITH H<sub>2</sub>O<sub>2</sub>

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)

August 16, 2018

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

RE: GARTNER A 5R

OrderNo.: 1808221

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 2 sample(s) on 8/3/2018 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](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 #NM0901

Sincerely,

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

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

**Hall Environmental Analysis Laboratory, Inc.**

CLIENT: Blagg Engineering

Client Sample ID: TSP BG-1 (EAST)

Project: GARTNER A 5R

Collection Date: 8/2/2018 9:27:00 AM

Lab ID: 1808221-001

Matrix: SOIL

Received Date: 8/3/2018 7:30:00 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	8/14/2018 3:37:33 PM	39747
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	8/6/2018 11:30:26 PM	39589
Surr: BFB	115	70-130		%Rec	1	8/6/2018 11:30:26 PM	39589
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>Irm</b>
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/8/2018 1:14:07 PM	39630
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/8/2018 1:14:07 PM	39630
Surr: DNOP	76.6	50.6-138		%Rec	1	8/8/2018 1:14:07 PM	39630
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.023		mg/Kg	1	8/6/2018 11:30:26 PM	39589
Toluene	ND	0.047		mg/Kg	1	8/6/2018 11:30:26 PM	39589
Ethylbenzene	ND	0.047		mg/Kg	1	8/6/2018 11:30:26 PM	39589
Xylenes, Total	ND	0.093		mg/Kg	1	8/6/2018 11:30:26 PM	39589
Surr: 4-Bromofluorobenzene	129	70-130		%Rec	1	8/6/2018 11:30:26 PM	39589
Surr: Toluene-d8	97.1	70-130		%Rec	1	8/6/2018 11:30:26 PM	39589

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

**Analytical Report**

Lab Order **1808221**

Date Reported: **8/16/2018**

**Hall Environmental Analysis Laboratory, Inc.**

**CLIENT:** Blagg Engineering

**Client Sample ID:** TSP BG-2 (WEST)

**Project:** GARTNER A 5R

**Collection Date:** 8/2/2018 9:29:00 AM

**Lab ID:** 1808221-002

**Matrix:** SOIL

**Received Date:** 8/3/2018 7:30:00 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	8/14/2018 3:49:58 PM	39747
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>AG</b>
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	8/8/2018 4:10:58 AM	39617
Surr: BFB	112	70-130		%Rec	1	8/8/2018 4:10:58 AM	39617
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>lrm</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	8/8/2018 1:38:42 PM	39630
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/8/2018 1:38:42 PM	39630
Surr: DNOP	65.2	50.6-138		%Rec	1	8/8/2018 1:38:42 PM	39630
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>AG</b>
Benzene	ND	0.024		mg/Kg	1	8/8/2018 4:10:58 AM	39617
Toluene	ND	0.049		mg/Kg	1	8/8/2018 4:10:58 AM	39617
Ethylbenzene	ND	0.049		mg/Kg	1	8/8/2018 4:10:58 AM	39617
Xylenes, Total	ND	0.097		mg/Kg	1	8/8/2018 4:10:58 AM	39617
Surr: 4-Bromofluorobenzene	126	70-130		%Rec	1	8/8/2018 4:10:58 AM	39617
Surr: Toluene-d8	94.8	70-130		%Rec	1	8/8/2018 4:10:58 AM	39617

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
	PQL Practical Quantitative Limit	RL Reporting Detection Limit
	S % Recovery outside of range due to dilution or matrix	W Sample container temperature is out of limit as specified

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808221

16-Aug-18

Client: Blagg Engineering  
Project: GARTNER A 5R

Sample ID	<b>MB-39747</b>	SampType:	<b>mbk</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>39747</b>	RunNo:	<b>53422</b>					
Prep Date:	<b>8/13/2018</b>	Analysis Date:	<b>8/14/2018</b>	SeqNo:	<b>1760975</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	<b>LCS-39747</b>	SampType:	<b>lcs</b>	TestCode:	<b>EPA Method 300.0: Anions</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>39747</b>	RunNo:	<b>53422</b>					
Prep Date:	<b>8/13/2018</b>	Analysis Date:	<b>8/14/2018</b>	SeqNo:	<b>1760976</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.4	90	110			

## Qualifiers:

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- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- 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#: 1808221

16-Aug-18

**Client:** Blagg Engineering  
**Project:** GARTNER A 5R

Sample ID <b>MB-39630</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>39630</b>	RunNo: <b>53282</b>								
Prep Date: <b>8/7/2018</b>	Analysis Date: <b>8/8/2018</b>	SeqNo: <b>1753763</b>	Units: <b>mg/Kg</b>							
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	8.0		10.00		80.2	50.6	138			

Sample ID <b>LCS-39630</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>39630</b>	RunNo: <b>53282</b>								
Prep Date: <b>8/7/2018</b>	Analysis Date: <b>8/8/2018</b>	SeqNo: <b>1753885</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	88.5	70	130			
Surr: DNOP	3.9		5.000		78.8	50.6	138			

**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
- PQL Practical Quantitative Limit
- 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#: 1808221

16-Aug-18

**Client:** Blagg Engineering  
**Project:** GARTNER A 5R

Sample ID	<b>ics-39589</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>39589</b>	RunNo: <b>53243</b>						
Prep Date:	<b>8/3/2018</b>		Analysis Date: <b>8/6/2018</b>	SeqNo: <b>1752198</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.8	80	120			
Toluene	0.95	0.050	1.000	0	95.5	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	0.56		0.5000		111	70	130			
Surr: Toluene-d8	0.45		0.5000		89.4	70	130			

Sample ID	<b>mb-39589</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>39589</b>	RunNo: <b>53243</b>						
Prep Date:	<b>8/3/2018</b>		Analysis Date: <b>8/6/2018</b>	SeqNo: <b>1752199</b>	Units: <b>mg/Kg</b>					
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	0.63		0.5000		125	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			

Sample ID	<b>ics-39617</b>		SampType: <b>LCS4</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>BatchQC</b>		Batch ID: <b>39617</b>	RunNo: <b>53276</b>						
Prep Date:	<b>8/6/2018</b>		Analysis Date: <b>8/7/2018</b>	SeqNo: <b>1753620</b>	Units: <b>mg/Kg</b>					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	88.7	80	120			
Toluene	0.98	0.050	1.000	0	97.8	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.2	80	120			
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	70	130			
Surr: Toluene-d8	0.47		0.5000		93.4	70	130			

Sample ID	<b>mb-39617</b>		SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>						
Client ID:	<b>PBS</b>		Batch ID: <b>39617</b>	RunNo: <b>53276</b>						
Prep Date:	<b>8/6/2018</b>		Analysis Date: <b>8/7/2018</b>	SeqNo: <b>1753621</b>	Units: <b>mg/Kg</b>					
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								

**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
- PQL Practical Quantitative Limit
- 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#: 1808221

16-Aug-18

Client: Blagg Engineering

Project: GARTNER A 5R

Sample ID	mb-39617	SampType:	MBLK	TestCode:	EPA Method 8260B: Volatiles Short List					
Client ID:	PBS	Batch ID:	39617	RunNo:	53276					
Prep Date:	8/6/2018	Analysis Date:	8/7/2018	SeqNo:	1753621	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.64		0.5000		129	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

## Qualifiers:

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

# QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1808221

16-Aug-18

Client: Blagg Engineering  
Project: GARTNER A 5R

Sample ID	<b>Ics-39589</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>39589</b>	RunNo:	<b>53243</b>					
Prep Date:	<b>8/3/2018</b>	Analysis Date:	<b>8/6/2018</b>	SeqNo:	<b>1752062</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	110	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID	<b>mb-39589</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>39589</b>	RunNo:	<b>53243</b>					
Prep Date:	<b>8/3/2018</b>	Analysis Date:	<b>8/6/2018</b>	SeqNo:	<b>1752063</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	560		500.0		112	70	130			

Sample ID	<b>Ics-39617</b>	SampType:	<b>LCS</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>LCSS</b>	Batch ID:	<b>39617</b>	RunNo:	<b>53276</b>					
Prep Date:	<b>8/6/2018</b>	Analysis Date:	<b>8/7/2018</b>	SeqNo:	<b>1753428</b>	Units:	<b>mg/Kg</b>			
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	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID	<b>mb-39617</b>	SampType:	<b>MBLK</b>	TestCode:	<b>EPA Method 8015D Mod: Gasoline Range</b>					
Client ID:	<b>PBS</b>	Batch ID:	<b>39617</b>	RunNo:	<b>53276</b>					
Prep Date:	<b>8/6/2018</b>	Analysis Date:	<b>8/7/2018</b>	SeqNo:	<b>1753429</b>	Units:	<b>mg/Kg</b>			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

## Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
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- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix
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Hall Environmental Analysis Laboratory  
 4901 Hawkins NE  
 Albuquerque, NM 87109  
 TEL: 505-345-3975 FAX: 505-345-4107  
 Website: www.hallenvironmental.com

# Sample Log-In Check List

Client Name: **BLAGG**

Work Order Number: **1808221**

RcptNo: **1**

Received By: **Anne Thorne** 8/3/2018 7:30:00 AM

*Anne Thorne*

Completed By: **Anne Thorne** 8/3/2018 1:37:25 PM

*Anne Thorne*

Reviewed By: **AT** 8/3/18

*Labeled by AT 08/03/18*

**Chain of Custody**

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

**Log In**

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

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

**Special Handling (if applicable)**

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

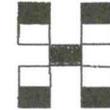
Person Notified:	_____	Date:	_____
By Whom:	_____	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	_____		
Client Instructions:	_____		

16. Additional remarks:

**17. Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

# Chain-of-Custody Record



## HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Client: **BP AMERICA**  
**BLAKE ENGINEERING**  
 Mailing Address:  
 Phone #: **505-320-1193**  
 email or Fax#:  
 QA/QC Package:  
 Standard  Level 4 (Full Validation)  
 Accreditation  
 NELAP  Other \_\_\_\_\_  
 EDD (Type)

Turn-Around Time:  
 Standard  Rush  
 Project Name:  
**GARTNER A 5R**  
 Project #:  
 Project Manager:  
**STEVE MOSKAL**  
 Sampler: **JEFF BLAKE**  
 On Ice:  Yes  No  
 Sample Temperature: **24.0C-1.0=1.4**

### Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	BTEX + MTBE + THMs (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO <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)	CHLORIDE	Air Bubbles (Y or N)
8/2/18	0927	SOIL	TSP BG-1 (EAST)	402x1	COOC	201	X	X										X	
"	0929	"	TSP BG-2 (WEST)	"	"	202	X	X										X	

Date: 8/2/18 Time: 1730 Relinquished by: **Jeff Blake**

Date: 8/2/18 Time: 1810 Relinquished by: **Christa Waet**

Received by: **Christa Waet** Date: 8/2/18 Time: 1730

Received by: **Christa Waet** Date: 8/03/18 Time: 0730

Remarks: **BILL BP**  
**CONTACT: STEVE MOSKAL**  
**VID: VHIXOWEVRM**  
**WBS: LL-001CT-E:GARTNERA5R**

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.