

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: 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


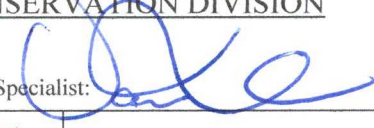
Type of Release: Unknown - hydrocarbon	Volume of Release: unknown	Volume Recovered: none
Source of Release: Unknown - suspect earthen pit; 95 bbl BGT	Date and Hour of Occurrence: unknown	Date and Hour of Discovery: January 2, 2018
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> 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: 	OIL CONSERVATION DIVISION	
Printed Name: Steve Moskal	Approved by Environmental Specialist: 	
Title: Field Environmental Coordinator	Approval Date: 10/12/18	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

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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

Google earth

100 ft





Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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 1804A25

Date Reported: 4/20/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	46	30		mg/Kg	20	4/19/2018 11:08:56 AM	37692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order 1804A25

Date Reported: 4/20/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/19/2018 11:21:20 AM	37692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order 1804A25

Date Reported: 4/20/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/19/2018 11:33:45 AM	37692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical ReportLab Order **1804A25**Date Reported: **4/20/2018****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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/19/2018 11:46:10 AM	37692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order 1804A25

Date Reported: 4/20/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/19/2018 11:58:34 AM	37692
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Sample ID	LCS-37692	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	37692	RunNo:	50704					
Prep Date:	4/19/2018	Analysis Date:	4/19/2018	SeqNo:	1645308	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.6	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#: 1804A25

20-Apr-18

Client: Blagg Engineering

Project: Gartner A 5R

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

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

Sample ID	1804A25-001AMS		SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	North Wall (3-11)		Batch ID: 37688		RunNo: 50693					
Prep Date:	4/19/2018		Analysis Date: 4/19/2018		SeqNo: 1644421		Units: mg/Kg			
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	1804A25-001AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	North Wall (3-11)		Batch ID: 37688		RunNo: 50693					
Prep Date:	4/19/2018		Analysis Date: 4/19/2018		SeqNo: 1644505		Units: mg/Kg			
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	LCS-37670		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37670		RunNo: 50693					
Prep Date:	4/18/2018		Analysis Date: 4/19/2018		SeqNo: 1644506		Units: %Rec			
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	MB-37670		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	37670		RunNo:	50693				
Prep Date:	4/18/2018		Analysis Date:	4/19/2018		SeqNo:	1644507		Units: %Rec		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	

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	MB-37670		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	37670		RunNo:	50693				
Prep Date:	4/18/2018		Analysis Date:	4/19/2018		SeqNo:	1644507		Units: %Rec		
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	RB	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	G50698	RunNo:	50698					
Prep Date:		Analysis Date:	4/19/2018	SeqNo:	1644629	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	850		1000		84.6	15	316			

Sample ID	2.5UG GRO LCS	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	G50698	RunNo:	50698					
Prep Date:		Analysis Date:	4/19/2018	SeqNo:	1644630	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	105	75.9	131			
Surr: BFB	980		1000		98.4	15	316			

Sample ID	1804A25-001AMS	SampType:	MS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	North Wall (3-11)	Batch ID:	G50698	RunNo:	50698					
Prep Date:		Analysis Date:	4/19/2018	SeqNo:	1644631	Units:	mg/Kg			
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	1804A25-001AMSD	SampType:	MSD	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	North Wall (3-11)	Batch ID:	G50698	RunNo:	50698					
Prep Date:		Analysis Date:	4/19/2018	SeqNo:	1644632	Units:	mg/Kg			
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.
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 RB	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: B50698		RunNo: 50698							
Prep Date:	Analysis Date: 4/19/2018		SeqNo: 1644647		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.81		1.000		80.7	80	120			

Sample ID 100NG BTEX LCS	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: B50698		RunNo: 50698							
Prep Date:	Analysis Date: 4/19/2018		SeqNo: 1644648		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	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 1804A25-002AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: East Wall (3-11)	Batch ID: B50698		RunNo: 50698							
Prep Date:	Analysis Date: 4/19/2018		SeqNo: 1644649		Units: mg/Kg					
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 1804A25-002AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: East Wall (3-11)	Batch ID: B50698		RunNo: 50698							
Prep Date:	Analysis Date: 4/19/2018		SeqNo: 1644650		Units: mg/Kg					
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



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: **1804A25**

RcptNo: 1

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

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

Reviewed By: **572 04/19/18**

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 $>0^{\circ}\text{C}$ 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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

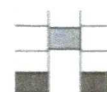
17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.4	Good	Yes			

Client: BP AMERICA
BLACK ENGINEERING INC.
Mailing Address:
Phone #: (505) 320-1183
email or Fax#:
QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
Accreditation
☐ NELAP ☐ Other _____
☐ EDD (Type) _____

Sample Temperature: 0.6-0.2 (CF) 0.4

Date: 4/13/2018	Time: 1647	Relinquished by: Jeff Blagoy	Received by: Kristen Wheeler	Date: 4/13/2018	Time: 1647
Date: 4/18/18	Time: 1550	Relinquished by: Kristen Wheeler	Received by: I.D.	Date: 4/19/18	Time: 0715



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

Remarks: Bill BP
CONTACT: STEVE MOSKAL
WBS ELEMENT: L9-DOCT-E: GARTNER A5R

An 5-pt Composite



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: 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 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 1804B34

Date Reported: 4/24/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 11:42:23 AM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical ReportLab Order **1804B34**

Date Reported: 4/24/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 11:54:47 AM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order 1804B34

Date Reported: 4/24/2018

Hall Environmental Analysis Laboratory, Inc.

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 12:07:12 PM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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, Inc.

CLIENT: Blagg Engineering

Client Sample ID: TSP-4

Project: GARTNER A 5R

Collection Date: 4/20/2018 1:46:00 PM

Lab ID: 1804B34-004

Matrix: SOIL

Received Date: 4/21/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 12:19:37 PM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical ReportLab Order **1804B34**

Date Reported: 4/24/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Client Sample ID:** TSP-5**Project:** GARTNER A 5R**Collection Date:** 4/20/2018 1:49:00 PM**Lab ID:** 1804B34-005**Matrix:** SOIL**Received Date:** 4/21/2018 9:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 12:32:02 PM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order **1804B34**

Date Reported: 4/24/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 12:44:26 PM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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.

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

Analytical Report

Lab Order 1804B34

Date Reported: 4/24/2018

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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	4/23/2018 12:56:50 PM	37741
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
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
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
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
EPA METHOD 8021B: VOLATILES							Analyst: NSB
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	MB-37741	SampType:	mbk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	37741	RunNo:	50775					
Prep Date:	4/23/2018	Analysis Date:	4/23/2018	SeqNo:	1647500	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-37741	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	37741	RunNo:	50775					
Prep Date:	4/23/2018	Analysis Date:	4/23/2018	SeqNo:	1647501	Units:	mg/Kg			
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	LCS-37738		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 37738		RunNo: 50757					
Prep Date:	4/23/2018		Analysis Date: 4/23/2018		SeqNo: 1646530		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.1	70	130			
Surr: DNOP	3.8		5.000		76.9	70	130			

Sample ID	MB-37738	SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS	Batch ID:	37738		RunNo:	50757				
Prep Date:	4/23/2018	Analysis Date:	4/23/2018		SeqNo:	1646531		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	8.4		10.00		84.3	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#: 1804B34

24-Apr-18

Client: Blagg Engineering

Project: GARTNER A 5R

Sample ID	MB-37717	SampType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	37717	RunNo:	50769					
Prep Date:	4/20/2018	Analysis Date:	4/23/2018	SeqNo:	1647174	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	860		1000		85.8	15	316			

Sample ID	LCS-37717	SampType:	LCS	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	LCSS	Batch ID:	37717	RunNo:	50769					
Prep Date:	4/20/2018	Analysis Date:	4/23/2018	SeqNo:	1647175	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	75.9	131			
Surr: BFB	970		1000		97.5	15	316			

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

Sample ID	LCS-37717		SampType:	LCS		TestCode:	EPA Method 8021B: Volatiles			
Client ID:	LCSS		Batch ID:	37717		RunNo:	50769			
Prep Date:	4/20/2018		Analysis Date:	4/23/2018		SeqNo:	1647189		Units: mg/Kg	
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

Completed By: Anne Thorne 4/23/2018 6:50:32 AM

Reviewed By: JMO 4/23/18

IC

Am Th

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 $>0^{\circ}\text{C}$ 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: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information



Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.5	Good	Yes			

Chain-of-Custody Record		Turn-Around Time:
Client: BP AMERICA	<input type="checkbox"/> Standard	<input checked="" type="checkbox"/> Rush SAME DAY
BLAGG ENGINEERING INC.	Project Name:	
Mailing Address:	GARTNER A SR	
	Project #:	
Phone #: 505-320-1183		
email or Fax#:	Project Manager:	
QA/QC Package:	STEVE MORAN	
<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Level 4 (Full Validation)	
Accreditation	Sampler: JEFF BLAGG	
<input type="checkbox"/> NELAP	<input type="checkbox"/> Other _____	
<input type="checkbox"/> EDD (Type)	On Ice: <input type="checkbox"/> Yes <input type="checkbox"/> No	
	Sample Temperature: 0.5	

Sample Temperature: 0.5

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

Date	Time	Matrix	Sample Request ID	Container Type and # AS04/LS17 mottkbf	Preservative Type	HEAL No. 1804B34
4/29/2018	1334	Soil	TSP-1	4 oz 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

Date:	Time:	Relinquished by:	Received by:	Date	Time
4/20/2018	1515	Jill Bragg		4/20/2018	1515
Date:	Time:	Relinquished by:	Received by:	Date	Time
4/20/18	1846	Maria Labele		4/20/18	0940

Remarks: BILL BP
CONTACT: STEVE Moskai
WBS ELEMENT: L1-00CT-E:GARTNERA5R

NOTE: 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.



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

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical ReportLab Order **1808221**Date Reported: **8/16/2018****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
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/14/2018 3:37:33 PM	39747
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

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

Analytical Report

Lab Order 1808221

Date Reported: 8/16/2018

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Blagg Engineering**Project:** GARTNER A 5R**Lab ID:** 1808221-002**Matrix:** SOIL**Client Sample ID:** TSP BG-2 (WEST)**Collection Date:** 8/2/2018 9:29:00 AM**Received Date:** 8/3/2018 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	30		mg/Kg	20	8/14/2018 3:49:58 PM	39747
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: AG
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
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: lrm
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
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: AG
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.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 2 of 7
	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	MB-39747	SampType:	mblk	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	39747	RunNo:	53422					
Prep Date:	8/13/2018	Analysis Date:	8/14/2018	SeqNo:	1760975	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-39747	SampType:	lcs	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	39747	RunNo:	53422					
Prep Date:	8/13/2018	Analysis Date:	8/14/2018	SeqNo:	1760976	Units:	mg/Kg			
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:

* 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-39630	SampType:	MBLK	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS	Batch ID:	39630	RunNo:	53282					
Prep Date:	8/7/2018	Analysis Date:	8/8/2018	SeqNo:	1753763	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	8.0		10.00		80.2	50.6	138			

Sample ID	LCS-39630	SampType:	LCS	TestCode:	EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS	Batch ID:	39630	RunNo:	53282					
Prep Date:	8/7/2018	Analysis Date:	8/8/2018	SeqNo:	1753885	Units:	mg/Kg			
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	lcs-39589		SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC		Batch ID: 39589		RunNo: 53243					
Prep Date:	8/3/2018		Analysis Date: 8/6/2018		SeqNo: 1752198		Units: mg/Kg			
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	mb-39589		SampType: MBLK		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	PBS		Batch ID: 39589		RunNo: 53243					
Prep Date:	8/3/2018		Analysis Date: 8/6/2018		SeqNo: 1752199		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.63		0.5000		125	70	130			
Surr: Toluene-d8	0.47		0.5000		94.3	70	130			

Sample ID	lcs-39617		SampType: LCS4		TestCode: EPA Method 8260B: Volatiles Short List					
Client ID:	BatchQC		Batch ID: 39617		RunNo: 53276					
Prep Date:	8/6/2018		Analysis Date: 8/7/2018		SeqNo: 1753620		Units: mg/Kg			
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	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
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

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

Sample ID	mb-39589		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 39589		RunNo: 53243					
Prep Date:	8/3/2018		Analysis Date: 8/6/2018		SeqNo: 1752063		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	560		500.0		112	70	130			

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

Sample ID	mb-39617		SampType: MBLK		TestCode: EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS		Batch ID: 39617		RunNo: 53276					
Prep Date:	8/6/2018		Analysis Date: 8/7/2018		SeqNo: 1753429		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	570		500.0		114	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 |



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

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

Reviewed By: *AT* 8/3/18

Labeled by AT 08/03/18

Anne Thorne

Anne Thorne

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 $>0^{\circ}\text{C}$ 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 $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.4	Good	Yes			

☐ EDD (Type) _____

Sample Temperature: $2.4 - CF - 1.0 = 1.4$



Remarks: Bill BP
CONTACT: STEVE MOSKOW
VID: VHIXOWEVRM
WBS: L1-001CT-E:GARTNERASR

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.