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

OIL CONS. DIV DISTATE 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**

				-A114131		OPERATOR Initial Report 🛛 I						<b>Final Report</b>	
Name of Co	mpany: B	P			(	Contact: Ste	ve Moskal						
Address: 38	0-A Airpo	rt Rd., Dura	ngo, CO	81303	-	Telephone N	No.: 505-330-91	79					
Facility Nan	ne: Floran	ce AB 031A			]	Facility Typ	e: Natural gas v	vell					
Surface Own	ner: Fee			Mineral O	wner: I	ee			API No	. 30045221	16		
				LOCA	TION	ON OF RELEASE							
Unit Letter	Section 12	Township 29N	Range 08W	Feet from the 1,595	North/South	South Line	Feet from the 1,160	East/V East	t/West Line   County: San Juan				
-	12	2711		titude 36.736		Longitue	de107.622						
			La			OF RELI		25					
Type of Relea	se. none			NAI	UKE		Release: unknow	n	Volume P	ecovered: N	J/A		
Source of Rel		v orade tank –	21 hbl				our of Occurrence			Hour of Dis		none	
Source of Itel	ouse. belov	· grade tallic	21 001			none	our or occurrenc	٠.	Dute and	riour or Dis	covery.	lione	
Was Immedia	te Notice (	Given?				If YES, To	Whom?						
			Yes 🛚	No Not Re	quired								
By Whom?						Date and H	our						
Was a Watero	course Read					If YES, Vo	lume Impacting t	he Wate	ercourse.				
			Yes 🛚										
If a Watercou	rse was Im	pacted, Descri	be Fully.*										
Describe Cau	se of Proble	em and Remed	dial Action	Taken.* Samplin	g of the	soil beneath	the BGT was dor	ne durin	g removal.	The results	for chl	oride were	
below the stat	ted standard	ds. TPH is bel	ow standa	rd for the site spec	cific spi	ll and release	guidelines. BTE	X was f	found to be	elevated du	ring the	closure of	
the BGT. The	e impacted	soil was reme	diated via	excavation as doc	umente	d in the attack	ned report.						
Describe Area	a Affected	and Cleanup A	action Tak	en.* The impacted	d soils w	ere fully del	neated via excava	ation, to	taling 15'x	15'x10D. A	pproxi	mately 60	
cubic yards w	as excavate	ed and remove	d from the	e location. The atta	ached re	port docume	nts the activities.						
I hereby certif	fy that the i	nformation gi	ven above	is true and comple	ete to th	e best of my	knowledge and u	nderstar	nd that purs	uant to NM0	OCD ru	iles and	
				d/or file certain re									
public health	or the envi	ronment. The	acceptanc	e of a C-141 repor	rt by the	NMOCD ma	arked as "Final Re	eport" d	loes not reli	eve the oper	ator of	liability	
should their o	perations h	ave failed to a	dequately	investigate and re	mediate	contaminati	on that pose a three	eat to gr	ound water	, surface wa	ter, hu	nan health	
federal, state,	or local la	ddition, NMU	CD accep	tance of a C-141 r	eport do	es not reliev	e the operator of r	responsi	bility for co	ompliance w	th any	other	
icuciai, state,	or local lav	ws and/or regu	iations.				OIL CONS	SFRV	ATION	DIVISIO	N		
Signature:	Mer SVI	me)					OIL COIN	JLICY	111014		14	( )	
Signature:									den	. 1	,		
Printed Name	: Steve Mo	skal			A	Approved by	Environmental Sp	pecialist	: /	/	~	//	
Title: Field Er	nvironment	al Coordinato	r			Approval Dat	2/27/1	8	Expiration I	Date.			
	- ii o iiii o ii	condition			- 1	-provide Dat	- September 1	<i>(</i> , )	- through I	7			
E-mail Addres	ss: steven.n	noskal@bp.co	m		(	Conditions of	Approval:			Attached			
Date: Februar	y 5, 2018		Phone:	505-330-9179						_			
Attach Addit		ets If Necess											

#NCS1721255504



# BP America Florance AB 31A

(I) Sec 12 – T29N – R8W San Juan County, New Mexico API: 30-045-22116

#### Summary Record of Impact Remediation

February 20, 2017 Soils impacted with hydrocarbons encountered during closure of a 21 barrel below grade tank. Subsequent laboratory analytical report of impacted soils immediately below the BGT reported total petroleum hydrocarbons (TPH) at 1,629 ppm and total BTEX at 93.9 ppm.

Site closure standard determined at 5,000 ppm TPH and 50 ppm total BTEX (with 10 ppm benzene) based on:

Horizontal Distance to Water Course > 1,000 feet (0 points) Distance to Nearest Water Well > 1,000 feet (0 points) Depth to Groundwater > 100 feet (0 points)

<u>September 19, 2017</u> Conduct initial remediation via excavation of impacts with a backhoe. Site lithology (dense bedrock sandstone) limited vertical extent of excavation. Completed excavation 15' x 15' x 8' deep. Sample sidewalls and base for closure. Sidewalls pass on all constituents, base fails on TPH and BTEX:

### Excavation Closure Sampling Test Results September 19, 2017

Sample ID	Date/Time	Field OVM (ppm)	TPH Method 8015B (mg/Kg)	BTEX Method 8021 (mg/Kg)	Benzene Method 8021 (mg/Kg)	Chloride Method 300 (mg/Kg)
4-Pt Comp (N & E Sidewalls @ 3'-7')	09/19/2017 @ 11:55	1,411	1,950	3.7	ND	ND
4-Pt Comp (W & S Sidewalls @ 3'-7')	09/19/2017 @ 11:50	2,021	670	11.625	0.055	ND
5-Pt Comp (Base) @ 8'	09/19/2017 @ 11:45	2,355	5,370	253.9	3.9	ND
Site	Closure	Standard:	5,000	50	10	600

<u>January 8, 2018</u> Resume remedial excavation using trackhoe. Extend vertical extent into dense sandstone an additional 2 feet to the 10' deep base and conduct witnessed sampling of the base. Note that a significant color change was present from the 8' depth (gray staining) to the 10' depth (tan, no staining):

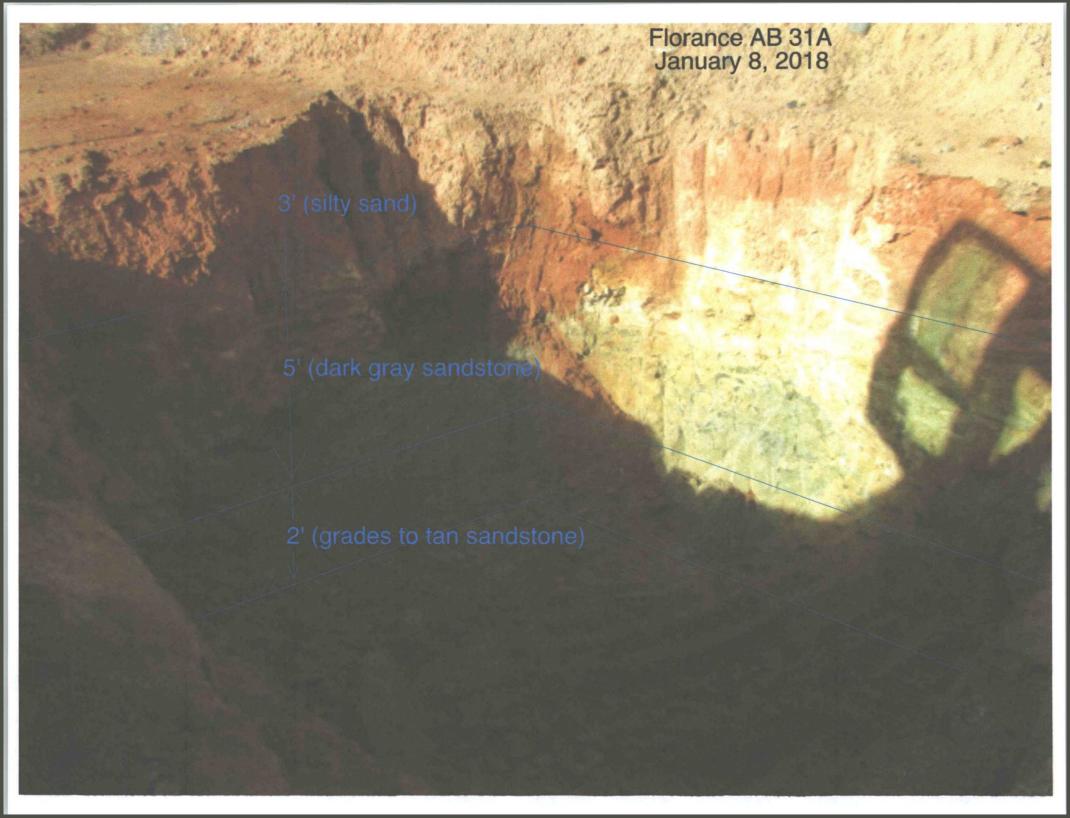
# Excavation Closure Sampling Test Results January 8, 2018

Sample ID	Date/Time		TPH Method 8015B (mg/Kg)	BTEX Method 8021 (mg/Kg)	Benzene Method 8021 (mg/Kg)	Chloride Method 300 (mg/Kg)
5-Pt Comp (Base) @ 10'	01/08/2018 @ 11:45	2,793	960	20.5	ND	ND
Site	Closure	Standard:	5,000	50	10	600

<u>January 9, 2018</u> Receive rush analytical lab results. Testing determines that excavation meets site closure standards for TPH, BTEX and Chlorides.

<u>January 10, 2018</u> Remediation crew completes backfilling operations.







Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

September 21, 2017

Jeff Blagg

Blagg Engineering

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199 FAX (505) 632-3903

RE: FLORANCE AB #31A

OrderNo.: 1709A73

#### Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/20/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 1709A73

Date Reported: 9/21/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 5PC-EB @ 8' (21)

Project: FLORANCE AB #31A

**Collection Date:** 9/19/2017 11:45:00 AM

Lab ID: 1709A73-001

Matrix: SOIL Received Date: 9/20/2017 7:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	9/20/2017 11:55:02 AM	33964
EPA METHOD 8015M/D: DIESEL RAN	GE ORGANIC	S				Analyst	: JME
Diesel Range Organics (DRO)	1600	48		mg/Kg	5	9/20/2017 11:05:02 AM	33953
Motor Oil Range Organics (MRO)	470	240		mg/Kg	5	9/20/2017 11:05:02 AM	33953
Sur: DNOP	132	70-130	S	%Rec	5	9/20/2017 11:05:02 AM	33953
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	NSB
Gasoline Range Organics (GRO)	3300	200		mg/Kg	50	9/20/2017 9:59:54 AM	G45760
Surr: BFB	274	54-150	S	%Rec	50	9/20/2017 9:59:54 AM	G45760
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	3.9	1.0		mg/Kg	50	9/20/2017 9:59:54 AM	B45760
Toluene	57	2.0		mg/Kg	50	9/20/2017 9:59:54 AM	B45760
Ethylbenzene	13	2.0		mg/Kg	50	9/20/2017 9:59:54 AM	B45760
Xylenes, Total	180	4.1		mg/Kg	50	9/20/2017 9:59:54 AM	B45760
Surr: 4-Bromofluorobenzene	132	66.6-132	S	%Rec	50	9/20/2017 9:59:54 AM	B45760

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

- 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 Quanitative 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### **Analytical Report**

#### Lab Order 1709A73

Date Reported: 9/21/2017

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: Blagg Engineering** 

Client Sample ID: 5PC-STOCKPILE (21)

FLORANCE AB #31A Project:

Collection Date: 9/19/2017 12:35:00 PM

Lab ID: 1709A73-002

Matrix: SOIL Received Date: 9/20/2017 7:20:00 AM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: MRA
Chloride	ND	30		mg/Kg	20	9/20/2017 12:07:26 PI	M 33964
EPA METHOD 8015M/D: DIESEL RANG	E ORGANICS	;				Analys	t: JME
Diesel Range Organics (DRO)	500	9.8		mg/Kg	1	9/20/2017 10:31:57 AI	A 33953
Motor Oil Range Organics (MRO)	190	49		mg/Kg	1	9/20/2017 10:31:57 Al	A 33953
Surr: DNOP	101	70-130		%Rec	1	9/20/2017 10:31:57 Al	A 33953
EPA METHOD 8015D: GASOLINE RANG	GE					Analys	t NSB
Gasoline Range Organics (GRO)	660	22		mg/Kg	5	9/20/2017 10:23:28 AI	d G45760
Surr: BFB	522	54-150	s	%Rec	5	9/20/2017 10:23:28 Al	/I G45760
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	0.38	0.11		mg/Kg	5	9/20/2017 10:23:28 AI	A B45760
Toluene	5.9	0.22		mg/Kg	5	9/20/2017 10:23:28 AI	M B45760
Ethylbenzene	2.1	0.22		mg/Kg	5	9/20/2017 10:23:28 Al	M B45760
Xylenes, Total	31	0.43		mg/Kg	5	9/20/2017 10:23:28 Al	M B45760
Surr: 4-Bromofluorobenzene	160	66.6-132	S	%Rec	5	9/20/2017 10:23:28 Al	M B45760

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

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix
- Analyte detected in the associated Method Blank
- Ε Value above quantitation range
- Analyte detected below quantitation limits Page 2 of 6 J
- Sample pH Not In Range
- RLReporting Detection Limit
- Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709A73

21-Sep-17

Client:

**Blagg Engineering** 

Project:

FLORANCE AB #31A

Sample ID MB-33964

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 33964

RunNo: 45763

9/20/2017

Prep Date:

Analysis Date: 9/20/2017

PQL

1.5

SeqNo: 1453873

Units: mg/Kg

Analyte

Result ND SPK value SPK Ref Val %REC LowLimit

HighLimit

**RPDLimit** %RPD

Qual

Chloride

SampType: Ics

TestCode: EPA Method 300.0: Anlons

Client ID: LCSS

Batch ID: 33964

RunNo: 45763

Units: mg/Kg

Prep Date: 9/20/2017

Sample ID LCS-33964

Analysis Date: 9/20/2017

Result

14

SeqNo: 1453874 %REC

%RPD **RPDLimit** 

Qual

Analyte Chloride

**PQL** 1.5

15.00

SPK value SPK Ref Val

94.0

90

HighLimit 110

#### Qualifiers:

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

Page 3 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709A73

21-Sep-17

Client:

**Blagg Engineering** 

**Project:** 

FLORANCE AB #31A

Diesel Range Organics (DRO)   ND   10   ND   50   Surr. DNOP   9.9   10.00   99.0   70   130	TLORA	THE AB #31A							
Prep Date: 9/20/2017   Analysis Date: 9/20/2017   SeqNo: 1453008   Units: mg/Kg	Sample ID MB-33953	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Analyte	Client ID: PBS	Batch ID: 33953	RunNo: 45752						
Diesel Range Organics (DRO)   ND   10   ND   50   Surr. DNOP   9.9   10.00   99.0   70   130	Prep Date: 9/20/2017	Analysis Date: 9/20/2017	SeqNo: 1453008 Units: mg/Kg						
Motor Oil Range Organics (MRO)   Surr. DNOP   9.9   10.00   99.0   70   130	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Sum: DNOP         9.9         10.00         99.0         70         130           Sample ID LCS-33953         SampType: LCS         TestCode: EPA Method 8015M/D: Dlesel Range Organics           Client ID: LCSS         Batch ID: 33953         RunNo: 45752           Prep Date: 9/20/2017         Analysis Date: 9/20/2017         SeqNo: 1453009         Units: mg/Kg           Analyte         Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Diesel Range Organics (DRO))         44         10         50.00         0         88.0         73.2         114           Sur: DNOP         4.6         50.00         91.7         70         130           Sample ID MB-33921         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: PBS         Batch ID: 33921         RunNo: 45752           Prep Date: 9/18/2017         Analysis Date: 9/20/2017         SeqNo: 1453598         Units: %Rec           Analyte         Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Sum: DNOP)         10         10.00         102         70         130           Sample ID LCS-33921         SampType: LCS         TestCode: EPA Method 8015M/D: Diesel Range Organics         Client ID: LCSS         Batch ID: 33921         RunNo: 45752           Prep Date: 9/18/2017         Analysi	Diesel Range Organics (DRO)	ND 10							
Sample ID         LCS-33953         SampType:         LCS         TestCode:         EPA Method         8015M/D:         Diesel Range         Organics           Client ID:         LCSS         Batch ID:         33953         RunNo:         45752           Prep Date:         9/20/2017         Analysis Date:         9/20/2017         SeqNo:         1453009         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Quality           Diesel Range Organics (DRO)         44         10         50.00         0         88.0         73.2         114         70         130           Sample ID         MB-33921         SampType:         MBLK         TestCode:         EPA Method         8015M/D:         Diesel Range         Organics           Client ID:         PBS         Batch ID:         33921         RunNo:         45752           Prep Date:         9/18/2017         Analysis Date:         9/20/2017         SeqNo:         1453598         Units:         %Rec           Sample ID         LCS-33921         SampType:         LCS         TestCode:         EPA Method         8015M/D:	Motor Oil Range Organics (MRO)	ND 50							
Client ID: LCSS   Batch ID: 33953   RunNo: 45752	Surr: DNOP	9.9 10.00	99.0 70 130						
Prep Date:         9/20/2017         Analysis Date:         9/20/2017         SeqNo:         1453009         Units:         mg/Kg           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         Olesel Range Organics (DRO)         44         10         50.00         0         88.0         73.2         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         130         114         70         145         70         130         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70         114         70	Sample ID LCS-33953	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Diesel Range Organics (DRO) 44 10 50.00 0 88.0 73.2 114 130	Client ID: LCSS Batch ID: 33953 RunNo: 45752								
Diesel Range Organics (DRO)	Prep Date: 9/20/2017	Analysis Date: 9/20/2017	SeqNo: 1453009 Units: mg/Kg						
Surr: DNOP         4.6         5.000         91.7         70         130           Sample ID MB-33921         SampType: MBLK         TestCode: EPA Method 8015M/D: Diesel Range Organics           Client ID: PBS         Batch ID: 33921         RunNo: 45752           Prep Date: 9/18/2017         Analysis Date: 9/20/2017         SeqNo: 1453598         Units: %Rec           Analyte         Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit         %RPD RPDLimit         Graph Range Organics           Sum: DNOP         10         10.00         102         70         130           Sample ID LCS-33921         SampType: LCS         TestCode: EPA Method 8015M/D: Diesel Range Organics         Client ID: LCSS         Batch ID: 33921         RunNo: 45752           Prep Date: 9/18/2017         Analysis Date: 9/20/2017         SeqNo: 1453599         Units: %Rec           Analyte         Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit         %RPD RPDLimit	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Sample ID MB-33921 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 33921 RunNo: 45752 Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453598 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Sum: DNOP 10 10.00 102 70 130  Sample ID LCS-33921 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 33921 RunNo: 45752 Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Company)	Diesel Range Organics (DRO)	44 10 50.00	0 88.0 73.2 114						
Client ID:         PBS         Batch ID:         33921         RunNo:         45752           Prep Date:         9/18/2017         Analysis Date:         9/20/2017         SeqNo:         1453598         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit           Sum: DNOP         10         10.00         102         70         130           Sample ID         LCS-33921         SampType:         LCS         TestCode:         EPA Method         8015M/D:         Diesel Range         Organics           Client ID:         LCSS         Batch ID:         33921         RunNo:         45752           Prep Date:         9/18/2017         Analysis Date:         9/20/2017         SeqNo:         1453599         Units:         %Rec           Analyte         Result         PQL         SPK value         SPK Ref Val         %REC         LowLimit         HighLimit         %RPD         RPDLimit         (0	Suit: DNOP	4.6 5.000	91.7 70 130						
Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453598 Units: %Rec  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Sur: DNOP 10 10.00 102 70 130  Sample ID LCS-33921 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 33921 RunNo: 45752  Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Company)	Sample ID MB-33921	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Commonwealth Surr. DNOP 10 10.00 10.00 102 70 130  Sample ID LCS-33921 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 33921 RunNo: 45752  Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (Commonwealth)	Client ID: PBS	Batch ID: 33921	RunNo: 45752						
Surr. DNOP 10 10.00 102 70 130  Sample ID LCS-33921 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 33921 RunNo: 45752  Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (	Prep Date: 9/18/2017	Analysis Date: 9/20/2017	SeqNo: 1453598 Units: %Rec						
Sample ID LCS-33921 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics  Client ID: LCSS Batch ID: 33921 RunNo: 45752  Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
Client ID: LCSS Batch ID: 33921 RunNo: 45752  Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (	Surr. DNOP	10 10.00	102 70 130						
Prep Date: 9/18/2017 Analysis Date: 9/20/2017 SeqNo: 1453599 Units: %Rec  Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (	Sample ID LCS-33921	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics						
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit (	Client ID: LCSS	Batch ID: 33921 RunNo: 45752							
	Prep Date: 9/18/2017	Analysis Date: 9/20/2017	SeqNo: 1453599 Units: %Rec						
Surr. DNOP 4.8 5,000 95.9 70 130	Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual						
	Surr. DNOP	4.8 5.000	95.9 70 130						

- 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 Quanitative 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
- Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709A73

21-Sep-17

Diag F. diagday

Client:

**Blagg Engineering** 

Project:

FLORANCE AB #31A

Sample ID RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: G45760 RunNo: 45760 Prep Date: Analysis Date: 9/20/2017 SeqNo: 1453626 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Vai %REC **HighLimit** %RPD **RPDLimit** Qual LowLimit Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1000 1000 101 54 150 Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: G45760 RunNo: 45760

Prep Date:	Analysis D	ate: 9/	20/2017	\$	SeqNo: 1	453627	Units: mg/K	(g	RPD RPDLimit			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	24	5.0	25.00	0	94.3	76.4	125					
Surr: BFB	1100		1000		114	54	150					

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709A73

21-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE AB #31A

Sample ID RB	Samp	Type: Mi	BLK	Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: <b>B45760</b> Analysis Date: 9/20/2017			F	RunNo: 4	5760					
Prep Date:				8	SeqNo: 1453638			g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025					-	•			
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.1		1.000		108	66.6	132				

Sample ID 100NG BTEX LC	S Samp	Type: LC	:8	Tes	tCode: E	PA Method	8021B: Vola	tiles		
Client ID: LCSS	Batc	h ID: <b>B4</b>	5760	F	RunNo: 4	5760				
Prep Date:	Analysis [	Date: 9/	20/2017	7 SeqNo: 1453639 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	89.8	80	120			
Toluene	0.91	0.050	1.000	0	90.6	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.8	80	120			
Sur: 4-Bromofluorobenzene	1.1		1.000		112	66.6	132			

#### Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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

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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

# Albuquerque, NM 87109 Sample Log-In Check List

Client Nan	ne: BLAGG		Work C	Order Number	1709/	<b>473</b>			RcptNo:	1
	_						0	/le		
Received	By: Anne Tho	TI <del>O</del>	9/20/201	7 7:20:00 AM			Arra ,	H	_	
Completed	By: Anne Thoi	TIO .		7 7:27:49 AM 1			am.	X	_	
Reviewed	By: //S		9/20	117						
Chain of	Custody									
1, Custod	ly seals intact on s	ample bottles?			Yes		No		Not Present	
2. Is Chai	n of Custody comp	lete?			Yes	$\checkmark$	No		Not Present	
3. How w	as the sample deliv	rered?			Cour	<u>ier</u>				
<u>Log in</u>										
4. Was a	n attempt made to	cool the sample	88?		Yes	V	No		na 🗀	
5. Were a	ill samples receive	d at a temperat	ure of >0° C	to 6.0°C	Yes	<b>7</b>	No		NA 🗆	
6. Sampl	e(s) in proper conta	ainer(s)?			Yes	V	No		•	
7. Sufficie	ent sample volume	for indicated te	st(s)?		Yes	$\mathbf{Z}$	No			
8. Are sa	mples (except VOA	and ONG) pro	perty preserve	ed?	Yes	V	No			
9. Was pr	reservative added t	o bottles?			Yes		No	$\mathbf{Z}$	NA 🗆	
10.VOA vi	als have zero head	space?			Yes		No		No VOA Viats 🗹	
11. Were a	any sample contain	ers received br	oken?		Yes		No		# of preserved	
12 Does n	aperwork match bo	ittle ishele?			Yes		No		bottles checked for pH:	
-	liscrepancies on ch				.00	حد		_		r >12 unless noted)
13. Are ma	trices correctly ide	ntified on Chain	of Custody?		Yes	$\checkmark$	No		Adjusted? _	<del></del>
	ar what analyses w	-	•		Yes		No	$\equiv$ 1	<b></b>	
	Il holding times abl lotify customer for				Yes	⊻	No	ן	Checked by:	<del> </del>
<u>Special H</u>	landling (if app	<u>ilicable)</u>				_				
16. Was di	ent notified of all d	iscrepancies wi	th this order?	•	Yes		No		NA 🗹	7
P	erson Notified:			Date	•		يبترهن المجهولية والانتشاط فالمناط			1
l l	y Whom:			Via:	eMa		Phone 🗌	Fax	n Person	
l	legarding:			سند بندون والماجات						
	lient Instructions:									j
17. Additio	nal remarks:									
	Information	ا بسیما					l a =			
C00	ter No Temp °C	Condition Good	Seal Intact Yes	Seal No	Seal Da	TOB	Signed B	У		
! <u></u>										

#### Client: □ EDD (Type) □ NELAP Accreditation: QA/QC Package: email or Fax#: Phone #: ✓ Standard Mailing Address: 9/19/17 9/19/17 9/19/17 Date Time 1235 1145 **BLAGG ENGR. / BP AMERICA** Matrix P.O. BOX 87 **BLOOMFIELD, NM 87413** (505) 632-1199 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. 5 500 2 Level 4 (Full Validation) Sample Request ID **SPC - STOCKPILE (21)** SPC - EB @ 8' (21) Container Project Manager Project Name: Sampler: Project #: Received by Standard Stry Hoz Type and # 4 02. - 1 4 02. - 1 FLORANCE AB #31A 7 **NELSON VELEZ** JEFFREY C. BLAGG **Preservative** S 8 Type 8 Rush 7/1/1/18 Date SAME DAY 202 $\beta$ 8 75 Reference # Remarks: < 1149/s (8021B) CONTACT: ERIN GARIFALOS / VANCE HIXON / STEWE MOSKAL BTEX + MTBE + TPH (Gas only) 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 < TPH 8015B (GRO / DRO / MRO) A REFERENCE # WHEN APPLICABLE: BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPONDING VID TPH (Method 418.1) ANALYSIS LABORATORY HALL ENVIRONMENTAL www.hallenvironmental.com EDB (Method 504.1) PAH (8310 or 8270SIMS) Analysis Request RCRA 8 Metals Fax 505-345-4107 Anions (F,Cl,NO3,NO2,PO4,SO4) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA) Chloride (soil - 300.0 / water - 300.1) Grab sample

S

S

# pt. composite sample

Air Bubbles (Y or N)

Chain-of-Custody Record

Turn-Around Time:



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

September 29, 2017

Jeff Blagg

**Blagg Engineering** 

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199

FAX (505) 632-3903

RE: FLORANCE AB #31A

OrderNo.: 1709C01

#### Dear Jeff Blagg:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/21/2017 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 1709C01

Date Reported: 9/29/2017

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 4 PC-N & E (SW) @ 3'-7' (21)

Project: FLORANCE AB #31A

Collection Date: 9/19/2017 11:55:00 AM

Lab ID: 1709C01-001

Matrix: SOIL

Received Date: 9/21/2017 1:15:00 PM

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS		=				Analyst:	MRA
Chloride	ND	30		mg/Kg	20	9/26/2017 11:04:33 AM	34063
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANIC	s				Analyst:	TOM
Diesel Range Organics (DRO)	1300	20		mg/Kg	2	9/22/2017 7:24:19 PM	34002
Motor Oil Range Organics (MRO)	490	99		mg/Kg	2	9/22/2017 7:24:19 PM	34002
Surr: DNOP	101	70-130		%Rec	2	9/22/2017 7:24:19 PM	34002
EPA METHOD 8015D: GASOLINE RANG	E					Analyst:	NSB
Gasoline Range Organics (GRO)	160	23		mg/Kg	5	9/22/2017 7:01:35 PM	33985
Surr. BFB	247	54-150	S	%Rec	5	9/22/2017 7:01:35 PM	33985
EPA METHOD 8021B: VOLATILES						Analyst:	NSB
Benzene	ND	0.12		mg/Kg	5	9/22/2017 7:01:35 PM	33985
Toluene	ND	0.23		mg/Kg	5	9/22/2017 7:01:35 PM	33985
Ethylbenzene	ND	0.23		mg/Kg	5	9/22/2017 7:01:35 PM	33985
Xylenes, Total	3.7	0.47		mg/Kg	5	9/22/2017 7:01:35 PM	33985
Surr: 4-Bromofluorobenzene	126	66.6-132		%Rec	5	9/22/2017 7:01:35 PM	33985

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

- 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 Quanitative 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 Page 1 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

#### **Analytical Report**

#### Lab Order 1709C01

Date Reported: 9/29/2017

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 4 PC-W & S (SW) @ 3'-7' (21)

**Project:** FLORANCE AB #31A

Collection Date: 9/19/2017 11:50:00 AM Received Date: 9/21/2017 1:15:00 PM

Lab ID: 1709C01-002

Matrix: SOIL

Analyses	Result	PQL (	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	MRA
Chloride	ND	30		mg/Kg	20	9/26/2017 11:16:57 AM	34063
EPA METHOD 8015M/D: DIESEL RANGI	E ORGANICS	3				Analyst	: TOM
Diesel Range Organics (DRO)	310	9.8		mg/Kg	1	9/22/2017 7:52:58 PM	34002
Motor Oil Range Organics (MRO)	180	49		mg/Kg	1	9/22/2017 7:52:58 PM	34002
Surr: DNOP	105	70-130		%Rec	1	9/22/2017 7:52:58 PM	34002
EPA METHOD 8015D: GASOLINE RANG	SE .					Analyst	NSB
Gasoline Range Organics (GRO)	180	4.7		mg/Kg	1	9/22/2017 7:24:54 PM	33985
Surr. BFB	549	54-150	S	%Rec	1	9/22/2017 7:24:54 PM	33985
EPA METHOD 8021B: VOLATILES						Analyst	NSB
Benzene	0.055	0.023		mg/Kg	1	9/22/2017 7:24:54 PM	33985
Toluene	1.5	0.047		mg/Kg	1	9/22/2017 7:24:54 PM	33985
Ethylbenzene	0.57	0.047		mg/Kg	1	9/22/2017 7:24:54 PM	33985
Xylenes, Total	9.5	0.093		mg/Kg	1	9/22/2017 7:24:54 PM	33985
Surr: 4-Bromofluorobenzene	136	66.6-132	S	%Rec	1	9/22/2017 7:24:54 PM	33985

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

- 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 Quanitative 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 Page 2 of 6
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1709C01

29-Sep-17

**Client:** 

**Blagg Engineering** 

Project:

FLORANCE AB #31A

Sample ID MB-34063

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

Batch ID: 34063

RunNo: 45881

%REC

Prep Date: 9/25/2017

Sample ID LCS-34063

Analysis Date: 9/26/2017

SeqNo: 1459275

Units: mg/Kg

Qual

Analyte Chloride

Result

**PQL** SPK value SPK Ref Val 1.5

**HighLimit** LowLimit

%RPD

**RPDLimit** 

**RPDLimit** 

ND

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID: LCSS

Batch ID: 34063

Result

14

Analysis Date: 9/26/2017

RunNo: 45881 SeqNo: 1459276

Units: mg/Kg

%RPD

Qual

Analyte Chloride

Prep Date:

9/25/2017

**PQL** 

1.5

15.00

SPK value SPK Ref Val

%REC 95.2

0

LowLimit 90 HighLimit 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

**Practical Quanitative Limit** 

% Recovery outside of range due to dilution or matrix

В Analyte detected in the associated Method Blank

Ε Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Detection Limit

Sample container temperature is out of limit as specified

Page 3 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1709C01 29-Sep-17

Client:

Blagg Engineering

Project:

FLORANCE AB #31A

Sample ID MB-34002 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 34002 RunNo: 45806 Prep Date: 9/21/2017 Analysis Date: 9/22/2017 SeqNo: 1455637 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 9.0 10.00 90.4 70 130

Sample ID LCS-34002	Sampi	ype: LC	<i>:</i> 5	TestCode: EPA method 8015m/U: Diesel Kange Organics											
Client ID: LCSS	Batch	h ID: <b>34</b>	002	F	RunNo: 4										
Prep Date: 9/21/2017	Analysis D	)ate: 9/	/22/2017	8	SeqNo: 1	455751	Units: mg/h								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Quai					
Diesel Range Organics (DRO)	48	10	50.00	0	95.6	73.2	114								
Surr: DNOP	4.6		5.000		91.1	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 Quanitative 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

Page 4 of 6

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709C01

29-Sep-17

Client:

Blagg Engineering

Project:

Analyte

Sur: BFB

Gasoline Range Organics (GRO)

FLORANCE AB #31A

Result

28

1200

**PQL** 

5.0

Sample ID MB-33985 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 33985 RunNo: 45817 Prep Date: 9/21/2017 Analysis Date: 9/22/2017 SeqNo: 1457079 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit **HighLimit** %RPD **RPDLimit** Qual ND Gasoline Range Organics (GRO) 5.0 Surr: BFB 1100 1000 54 150 110 Sample ID LCS-33985 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 33985 RunNo: 45817 Prep Date: 9/21/2017 Analysis Date: 9/22/2017 SeqNo: 1457080 Units: mg/Kg

%REC

111

120

LowLimit

76.4

54

**HighLimit** 

125

150

%RPD

**RPDLimit** 

Qual

SPK value SPK Ref Val

25.00

1000

#### 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 Quanitative 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

Page 5 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: 1709C01

29-Sep-17

Client:

Blagg Engineering

**Project:** 

FLORANCE AB #31A

Sample ID MB-33985	Sampl	ype: ME	BLK	TestCode: EPA Method 8021B: Volatiles									
Client ID: PBS	Batcl	h ID: 33	985	F	tunNo: 4	5817							
Prep Date: 9/21/2017	Date: 9/21/2017 Analysis Date: 9/22/2017 SeqNo: 1457105							g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025								•			
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	1.2		1.000		125	66.6	132						

Sample ID LCS-33985	Sampi	ype: LC	S	Tes	8021B: Vola	tiles				
Client ID: LCSS	Batcl	n ID: 33	985	F	RunNo: 4	5817				
Prep Date: 9/21/2017	Analysis E	)ate: <b>9/</b>	22/2017	8	SeqNo: 1	457106	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.025	1.000	0	112	80	120			
Toluene	1.1	0.050	1.000	0	109	80	120			
Ethylbenzene	1.1	0.050	1.000	0	113	80	120			
Xylenes, Total	3.4	0.10	3.000	0	114	80	120			
Surr. 4-Bromoffuorobenzene	1.3		1.000		132	66.6	132			S

#### 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 Quanitative 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

Page 6 of 6



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

RcotNo: 1 Work Order Number: 1709C01 Client Name: **BLAGG** an Ilm Received By: **Anne Thome** 9/21/2017 1:15:00 PM an Ilm 9/21/2017 1:34:66 PM Completed By: **Anne Thome** 9/21/14 Reviewed By: Chain of Custody No 🗆 Not Present Yes 🗍 1. Custody seals intact on sample bottles? No 🗆 Not Present Yes 🗸 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier Log In No 🗆 NA 🗆 Yes 🗹 4. Was an attempt made to cool the samples? No 🗀 NA 🗆 Yes 🗸 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗆 Yes 🗹 6. Sample(s) in proper container(s)? No 🗆 Yes V 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes V 8. Are samples (except VOA and ONG) properly preserved? No 🗹 NA 🗆 Yes 🗌 9. Was preservative added to bottles? No 🗆 No VOA Vials 🗹 Yes 10. VOA vials have zero headspace? Yes 🗌 No 🗹 11. Were any sample containers received broken? # of preserved bottles checked No 🗆 for pH: Yes V 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗆 Yes 🗸 13. Are matrices correctly Identified on Chain of Custody? No 🗆 Yes 🗹 14 is it clear what analyses were requested? Yes 🔽 No 🗌 Checked by: 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (If applicable) No 🗆 Yes 🗌 NA 🗹 16. Was client notified of all discrepancies with this order? Person Notified: Date eMail Phone Fax In Person By Whom: Via: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Condition | Seal Intact | Seal No | Temp ℃ Cooler No Seal Date 1.0 Good Yes

Chain-of-Custody Record				Turn-Around Time: pu NV							J A			<b>D</b> 17	/TI	20		ME	<b>.</b>	<b>ra</b> i	•
Client:	BLAG	G ENGR	. / BP AMERICA	☐ Standard	⊠ Rush _	3 DAY TAT	1 -		K									R/			
				Project Name			] 1			•							l.con		•••		
Mailing A	ddress:	P.O. BO	X 87	FLC	DRANCE AB	#31A	}	49	01 F	ławi								7109	)		
		BLOOM	IFIELD, NM 87413	Project #:			1				45-3						-410				
Phone #:		(505) 63	32-1199	]								μ	Anal	ysis	Re	ques	st				
email or f	ax#:			Project Manag	jer:									÷				ਜ			$\Box$
QA/QC Par Standa	_		Level 4 (Full Validation)		JEFFREY C.	BLAGG	Bt=(8021B)	onty)	/ MRO)			15)		05,50	PCB's			er - 300.1)			a
Accreditat	tion:			Sampler:	<b>NELSON VI</b>	ELEZ nv	<b>1</b>	тРН (Gas	RO/	ਜ਼ਿ	(T	OSIN		02	808			/ wa	-		ם
□ NELAF		☐ Other	·	Ortex :	The first and a Construction of the Constructi	E MVC		TH.	0/0	418	504	827	ړ	ő	ss/		8	0.00			es l
	Гуре) Т	T		Samue Remo	erature = ///	l e e		+	(GR	ğ	Pg	O or	etal	D.	icid	र्	Ϋ́	ا اق	- [	e B	posi
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAENG.	BTEX FIRE	BTEX + MTBE	TPH 8015B (GRO / DRO	TPH (Method 418.1)	EDB (Method 504.1)	PAH (8310 or 8270SIMS)	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 (soil - 300.0 / water		Grab sample	# pt. composite sample
9/19/17	1155	SOIL	4PC - N&E (SW) @ 3'-7' (21)	4 oz 1	Cool	-001	٧		7									٧			5
																					$\Box$
9/19/17	1150	SOIL	4PC - W&S (SW) @ 3'-7' (21)	4 oz 1	Cool	702	٧		7									<b>V</b>			5
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Date: 9/19/17	Time:	Relinquist	les of	Received by:  Oate Time R  G  19  19  19  19  19  19  19  19  19			Remarks: BILL DIRECTLY TO BP USING THE CONTACT WITH CORRESPOND  A REFERENCE # WHEN APPLICABLE:  CONTACT: ERIN GARIFALOS / VANCE HIXON / TYEVE MOST  VID: VHIXONEVRM  Reference # - had . 09/2/17 Par xi														
Date:	Time:	Relinquish	ed by:  Live A and the second and th				Ref	eren	VID: ce#	VHE	XON	EVR	vi -	-	ho	ld.	090	1/7  2/1/7	San	12 N 12 N 2003	es as



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

January 11, 2018

Steve Moskal

**Blagg Engineering** 

P. O. Box 87

Bloomfield, NM 87413

TEL: (505) 632-1199 FAX (505) 632-3903

RE: Florance AB 31A

OrderNo.: 1801373

Dear Steve Moskal:

Hall Environmental Analysis Laboratory received 1 sample(s) on 1/9/2018 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 <a href="www.hallenvironmental.com">www.hallenvironmental.com</a> or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

#### **Analytical Report**

Lab Order 1801373

Date Reported: 1/11/2018

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering

Client Sample ID: 21 BGT 5-PT@10'

Project: Florance AB 31A

Collection Date: 1/8/2018 11:55:00 AM

Lab ID: 1801373-001 Matrix: MEOH (SOIL)

Received Date: 1/9/2018 7:45:00 AM

Analyses	Result	PQL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	MRA
Chloride	ND	30	mg/Kg	20	1/9/2018 11:44:58 AM	35930
EPA METHOD 8015D MOD: GASOL	INE RANGE				Analyst	AG
Gasoline Range Organics (GRO)	370	18	mg/Kg	5	1/9/2018 10:09:23 AM	G48294
Surr: BFB	101	70-130	%Rec	5	1/9/2018 10:09:23 AM	G48294
EPA METHOD 8015M/D: DIESEL RA	NGE ORGANICS	}			Analyst:	TOM
Diesel Range Organics (DRO)	390	10	mg/Kg	1	1/9/2018 11:28:01 AM	35924
Motor Oil Range Organics (MRO)	200	50	mg/Kg	1	1/9/2018 11:28:01 AM	35924
Surr: DNOP	112	70-130	%Rec	1	1/9/2018 11:28:01 AM	35924
EPA METHOD 8260B: VOLATILES	SHORT LIST				Analyst	AG
Benzene	ND	0.089	mg/Kg	5	1/9/2018 10:09:23 AM	R48294
Toluene	3.4	0.18	mg/Kg	5	1/9/2018 10:09:23 AM	R48294
Ethylbenzene	1.1	0.18	mg/Kg	5	1/9/2018 10:09:23 AM	R48294
Xylenes, Total	16	0.36	mg/Kg	5	1/9/2018 10:09:23 AM	R48294
Surr. 4-Bromofluorobenzene	98.5	70-130	%Rec	5	1/9/2018 10:09:23 AM	R48294
Surr. Toluene-d8	108	70-130	%Rec	5	1/9/2018 10:09:23 AM	R48294

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

- 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 Quanitative 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 Page 1 of 5
- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1801373 11-Jan-18

Client:

**Blagg Engineering** 

Project:

Florance AB 31A

Sample ID MB-35930

SampType: mblk

TestCode: EPA Method 300.0: Anions

Client ID:

PBS

Batch ID: 35930

**PQL** 

1.5

RunNo: 48302

Prep Date: 1/9/2018 Analysis Date: 1/9/2018

SeqNo: 1552307

Units: mg/Kg

Qual

Analyte Chloride

SPK value SPK Ref Val %REC

LowLimit

**HighLimit** 

%RPD **RPDLimit** 

ND

Result

14

SampType: Ics

TestCode: EPA Method 300.0: Anions

Client ID:

LCSS

Batch ID: 35930

RunNo: 48302

LowLimit

90

Prep Date: 1/9/2018

Sample ID LCS-35930

SeqNo: 1552308

Units: mg/Kg

Analyte

Analysis Date: 1/9/2018

%RPD

**RPDLimit** Qual

Chloride

**PQL** 

15.00

%REC 93.1

HighLimit

SPK value SPK Ref Val 1.5

0

110

#### Qualifiers:

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

Page 2 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1801373

11-Jan-18

Client:

Blagg Engineering

Project:

Florance AB 31A

riojett. rioiano		
Sample ID LCS-35924	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35924	RunNo: 48292
Prep Date: 1/9/2018	Analysis Date: 1/9/2018	SeqNo: 1550980 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 90.4 70 130
Surr. DNOP	4.5 5.000	90.8 70 130
Sample ID MB-35924	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35924	RunNo: 48292
Prep Date: 1/9/2018	Analysis Date: 1/9/2018	SeqNo: 1550981 Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Diesel Range Organics (DRO)	ND 10	
Motor Oil Range Organics (MRO)	ND 50	
Surr: DNOP	10 10.00	102 70 130
Sample ID LCS-35915	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 35915	RunNo: 48292
Prep Date: 1/8/2018	Analysis Date: 1/9/2018	SeqNo: 1551228 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr. DNOP	4.8 5.000	96.3 70 130
Sample ID MB-35915	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS	Batch ID: 35915	RunNo: 48292
Prep Date: 1/8/2018	Analysis Date: 1/9/2018	SeqNo: 1551229 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Surr: DNOP	10 10.00	103 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 Quanitative 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

Page 3 of 5

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1801373

11-Jan-18

Client:

**Blagg Engineering** 

Project:

Florance AB 31A

Sample ID rb	Samp <sup>1</sup>	Type: ME	BLK	Tes	tCode: EPA Method 8260B: Volatiles Short List									
Client ID: PBS	Batc	h ID: <b>R4</b>	8294	F	RunNo: 4	8294								
Prep Date:	Analysis Date: 1/9/2018			8	SeqNo: 1	551049	Units: mg/k	(g						
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	0.52		0.5000		104	70	130							
Surr: Toluene-d8	0.54		0.5000		108	70	130							

Sample ID 100ng btex Ics	Samp	Type: LC	<b>S</b> 4	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	Batc	h ID: R4	8294	F	RunNo: 48294									
Prep Date:	Analysis I	Date: 1/	9/2018	5	SeqNo: 1	551978	Units: mg/k	Inits: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	1.2	0.025	1.000	0	122	80	120			S				
Toluene	1.1	0.050	1.000	0	106	80	120							
Ethylbenzene	0.99	0.050	1.000	0	99.4	80	120							
Xylenes, Total	2.9	0.10	3.000	0	95.4	80	120							
Surr: 4-Bromofluorobenzene	0.43		0.5000		86.5	70	130							
Surr: Toluene-d8	0.52		0.5000		103	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 Quanitative 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

Page 4 of 5

- P Sample pH Not In Range
- RL Reporting Detection Limit
- W Sample container temperature is out of limit as specified

### Hall Environmental Analysis Laboratory, Inc.

WO#:

1801373

11-Jan-18

Client:

**Blagg Engineering** 

Project:

Florance AB 31A

Sample ID rb

SampType: MBLK

TestCode: EPA Method 8015D Mod: Gasoline Range

LowLimit

70

Client ID: PBS

Batch ID: G48294

**PQL** 

5.0

RunNo: 48294

Prep Date:

Analysis Date: 1/9/2018

SeqNo: 1550990

Analyte

Units: mg/Kg **HighLimit** 

**RPDLimit** 

Qual

Gasoline Range Organics (GRO) Sum: BFB

ND 530

Result

500.0

105

130

%RPD

SPK value SPK Ref Val %REC

Sample ID 2.5ug gro Ics

SampType: LCS

TestCode: EPA Method 8015D Mod: Gasoline Range

%REC

Client ID: LCSS

Batch ID: G48294

RunNo: 48294

SPK value SPK Ref Val

Prep Date:

Analysis Date: 1/9/2018

SeqNo: 1552011

0

Units: mg/Kg

Analyte Gasoline Range Organics (GRO) Result PQL 27 5.0

25.00

110

70

%RPD **RPDLimit** 

Qual

Surr: BFB

480

500.0

96.5

70

130 130

**HighLimit** 

#### Qualifiers:

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

Page 5 of 5



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 Numb	er: <b>1801373</b>		RcptNo:	1
Received By:	Erin Melendrez	1/9/2018 7:45:00 AN	1	ina	<u> </u>	
Completed By:	Sophia Campuzano	1/9/2018 8:28:46 AN	ı	Must		
Reviewed By:	ENM	1/9/18		عدادان سطوام		
,	CIOM	1, 1.0				
Chain of Cus	todv					
	ustody complete?		Yes 🗹	No 🗆	Not Present	
2. How was the	sample delivered?		Courier			
Log in						
	npt made to cool the samp	les?	Yes 🗹	No 🗆	na 🗀	
4. Were all samp	oles received at a tempera	ture of >0° C to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in	proper container(s)?		Yes 🗹	No 🗀		
				🗆		
	tple volume for indicated te	• •	Yes 🗹	No □ No □		
_	except VOA and ONG) pro	peny preserved?	Yes ☑ Yes ☐	No ☑ No <b>☑</b>	NA 🗆	
O. was preserva	tive added to bottles?		Yes 📙	140 (2)	NA LI	
9. VOA vials hav	e zero headspace?		Yes 🗌	No 🗆	No VOA Vials 🗹	
10, Were any san	nple containers received b	roken?	Yes 🗆	No 🗹	# of preserved	
44 -			🗖		bottles checked	
• •	ork match bottle labels? ancies on chain of custody,	)	Yes 🗹	No L	for pH:(<2 or	>12 unless noted)
	correctly identified on Chair	•	Yes 🗹	No 🗆	Adjusted?	
13, is it clear what	t analyses were requested	?	Yes 🗹	No 🗆		
	ng times able to be met?		Yes 🗹	No 🗆	Checked by:	
•	ustomer for authorization.)			_		<del></del>
	ing (if applicable)		_	_		
15. Was client no	tified of all discrepancies v	with this order?	Yes 🗆	No []	NA 🗹	;
Į.	Notified:	Date:		<del>- 1117 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 111 - 1</del>		
By Who		Via:	eMail 🗍	Phone 🗌 Fax	in Person	! !
Regard	ing: nstructions:					
<u> </u>						!
16. Additional res	marks:					
17. Cooler Infor		la		I		
Cooler No	Temp °C Condition 2.9 Good	Seal Intact   Seal No   Yes	Seal Date	Signed By		
Ľ		•				

C	:hain	of-Cu	stody Record	Turn-Around		HALL ENVIRONMENTAL															
Client:	BP A	MERICA		☐ Standard		SAME DAY			E									-	.N I		
	BLA-1-	ENGIA	IEERING INC.	Project Name	∋:			ď				٠.,				al.co			•		
Mailing	Address	:		FLORAL	ice AB	31A		49	01 H	awki				•				'ina			
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QA/QC	Package:			STE	VE MOS	L. FAL	021	S Or	N.		ļ	္က		,SC	,8;s				i		
Stan			☐ Level 4 (Full Validation)				8) s.	ပ္ပြ	8			8270 SIMS)		PO.	2 PC			.			
Accred		- 01		Sampler: J	EFF BU		器	핕	0/	=	=	2		NO2	808						2
O NEL		☐ Othe	<u>r</u>	On Ice:	Yes Yes	□ No	$\mathbf{F}$	1	8	418	8		<u>9</u>	Ō	) Si		ह			- 1	5
D EDU	(Type)			STEVE MOSKA  Sampler: TEFF Builds On Ice: WYes INO  Sample Temperature: 3 U-D-5 (C-D) = 2 9  Container Type and # Type HEAL No.  1801373				185	9 (0	ğ	8	ş	leta	CI,N	ica	(A)	Ž	17			) S
Date	Time	Matrix	Sample Request ID	Container	Preservative	Z.G HEAL No.	平	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or	RCRA 8 Metals	Anians (F,CI,NO3.NO2,PO4,SO4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHAPLIVE			Air Bubbles (Y or N)
Vale	111116	IASSITI IV	Sample Reduest in	Type and #	Турс		页	질	H	Ĭ.	8	Ŧ	CR	nja	<b>8</b> 8	309Z	200	3			E B
8/			Z1 85T -/			1801373		8		티	픠	<u>a</u>	Ř	A	8(	8.	8			$\dashv$	- E
12018	1155	SOIL	21 85T 5-05 @ 10	40241	Cess	-001	X		X	_	_							X	igwdap	_	_
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त्रे <sub>रिय</sub>	1545	July	1 5699	WHE (COURS) 1/9/18 0745																	
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