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

OIL CONS. DIV DIST. 3

MAY 28 2015

Form C-141 Revised August 8, 2011

reensed rugust 0, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

District IV 1220 S. St. Frar	ncis Dr., Sant	ta Fe, NM 8750	5	1220	Sout	n St. France $\sim NM 875$	cis Dr.					
			DI									
			Kel	ease Notific	catio	n and Co	orrective A	ctio	n			
						OPERATOR Initial Report Final I					Final Report	
Name of Co	ompany: B	SP				Contact: Jeff Peace						
Address: 20	00 Energy	Court, Farm	ington, N	M 87401		Telephone No.: 505-326-9479						
Facility Na	me: Marco	otte Gas Con	11			Facility Type: Natural gas well						
Surface Ow	ner: Priva	te		Mineral (Owner:	er: Private API No. 3004511067						
				LOCA	ATIO	N OF RE	LEASE					
Unit Letter H	Section 5	Township 31N	Range 10W	Feet from the 1,550	North North	1/South Line Feet from the East/West Line Court 1,190 East			County: S	an Juan		
		Latit	tude 36	.929999		Longitud	e 107.900491					
				NAT	TIDE	OF DEL	FASE					
Type of Rele	ease: conder	nsate/oil		INAI	UKE	Volume of	Release: unknow	vn	Volume F	Recovered: r	one	
Source of Re	elease: below	w grade tank -	- 21 bbl, T	ank A		Date and H	Iour of Occurrence	ce:	Date and	Hour of Dis	covery:	April 18,
					unknown			2012; 10:	32 AM		1	
Was Immedi	ate Notice (Given?	Yes 🛛	No 🗌 Not R	equired	If YES, To	Whom?					
By Whom?						Date and H	Iour					
Was a Water	course Read	ched?	Yes 🗵	No		If YES, Vo	olume Impacting t	the Wa	tercourse.			
If a Watercou	urse was Im	pacted, Descr	ibe Fully.	k								
Describe Cau TPH of 1,200	use of Probl 0 ppm by M	lem and Reme lethod 8015B.	dial Actio Analysis	n Taken.* Soil be results are attach	neath th ed. Imp	e BGT showe acted soil was	ed evidence of imp excavated and m	pacts d	luring remov wells were s	al. Soil ana ampled.	lysis res	ulted in
Describe Are Impacted soi at 20' were b was backfille detect for BT for BTEX. <i>A</i> high sulfate a	ea Affected l was excav below the cl- ed with clea (EX, but ex- A sample of and TDS lev	and Cleanup A vated to 23 fee osure standard n soil. A grou ceeded the We produced wat vels in the gro	Action Tal t depth wh d of 100 pp ndwater m QCC stanc ter from th undwater a	ken.* Soils beneat bere competent be om TPH. Appro- bonitor well was p lard for sulfate and well was analyze are not due to the	h the B drock w ximatel laced ir nd TDS red for s produce	GT were samp vas encountered y 1,205 cubic the center of Four existin ulfate and TD ed water. Sam	bled and impacts yed. Sidewall comp yards were taken the excavation ar g monitor wells o 'S and resulted in uple data, site map	were for posite to the rea, and on the s non-do ps, and	bund immedi samples of the landfarm for d a subsequer ite were also etect for both a C-138 are	ately below ne excavatio treatment a nt water sam sampled an constituent attached.	the BG n from 9 nd the en pple resu d were r s, indica	Γ. ² – 10'and xcavation lted in non- non-detect ting the
I hereby certi regulations a public health should their o or the enviro federal, state.	ify that the ll operators or the envi operations h nment. In a , or local la	information g are required t ronment. The nave failed to addition, NMC ws and/or regu	iven above o report and acceptand adequately OCD accep ulations.	e is true and comp nd/or file certain r ce of a C-141 report investigate and r otance of a C-141	lete to t elease r ort by th emediat report c	he best of my otifications and e NMOCD m the contamination loes not reliev	knowledge and u nd perform correc arked as "Final R on that pose a thr e the operator of r	inderst ctive ac eport" reat to g respon	and that purs ctions for rele does not reli ground water sibility for co	uant to NM6 eases which eve the oper , surface wa ompliance w	OCD rul may end rator of l ter, hum vith any	es and langer iability nan health other
Signature:	off lo	all			i i	Approved by	OIL CONS Environmental S	<u>SER</u>	st:	DIVISIC	Ν λ	
Printed Name	e: Jeff Peac	e					/ 1 1			$\langle \psi \rangle$		
Title: Field E	Environmen	tal Coordinato	or			Approval Dat	e: 6/30/15		Expiration I	Date		
E-mail Addre	ess: peace.je	effrey@bp.co	m			Conditions of	Approval:			Attached		
Date: May 2 Attach Addi	27, 2015 tional She	ets If Necess	Phone: 5 sary	05-326-9479	4	PCS N	JK 1212	22	3143	4		

BP America Production Company

Marcotte Gas Com 001 (H) Sec 5 – T31N – R10W API: 30-045-11067 San Juan County, New Mexico

Summary Record of Impacted Soil Remediation & Groundwater

- April 18, 2012Initial visit by Blagg Engineering, Inc. (BEI) to conduct confirmation sampling of three
(3) below-grade tanks (BGT). Staining evident directly beneath 21 barrel (bbl) BGT
adjacent to compressor unit. BGT identified as tank A on BGT permit (see Figure 1).
Permit approved (closure only) on November 7, 2011.
- April 24, 2012 BEI collected additional sample from 21-A BGT at ten (10) feet below-grade.
- May 17, 2012 Four (4) pre-existing groundwater monitor wells located on and off site were installed on October 29, 1991 (MW #1, MW #2, MW #3, & MW #4). BEI completed survey of casing tops in case groundwater gradient information was warranted for possible future decision making purposes. Reason(s) for installation and placement are unknown to BEI and current BP personnel. Records of groundwater gradient diagram (August 1993) and sampling (1993 & 1994) are included at end of this document.
- June 7, 2012BEI collected soil sample using a backhoe from beneath compressor unit location to
determine if RCRA metals were present. Sample collected at 4 feet below grade (source
(@ 4') tested non-detect for all metal constituents. One other sample was collected at 5
feet below grade (source (@ 5') contained Total Petroleum Hydrocarbons per US EPA
Method 8015B at 600 mg/Kg. Benzene, toluene, ethylbenzene, and total xylenes
(BTEX) tested non-detect for all constituents
- <u>June 20, 2012</u> BEI collected groundwater samples from MW #1, MW #2, MW #3, and MW #4 for BTEX. All wells tested non-detect for all constituents.
- October 2012 Commenced remediation effort via excavation.
- October 29, 2012 BEI collected initial samples from sidewalls between 9 -10 feet below-grade.
- <u>November 7, 2012</u> BEI collected final samples from sidewalls and excavation bottom. Bedrock and groundwater observed at base.
- <u>November 2012</u> Completed excavation of impacted soils (see Figure 2). 1,205 cubic yards were removed and transported to BP's Crouch Mesa Facility.
- March 26, 2013 One (1) groundwater monitor well (MW #5) was installed using conventional drill rig (CME-95). MW #5 placed near center of excavated source area. The boring log for this well is included in this document.
- April 22, 2014 MW #5 was developed by BEI to remove sediment accumulated during well installation and to observe groundwater draw down and/or recovery.
- April 29, 2012 MW #5 was sampled for BTEX and regulated general chemistry parameters.
- May 14, 2015 Sample on-site low profile produced water tank for TDS and Sulfate analysis.





BP AMERICA PRODUCTION COMPANY

Marcotte GC # 1 - (Cleanup of Release Beneath 21 bbl BGT [21-A])

Unit Letter H, Section 5, T31N, R10W - API Number: 30-045-11067

SAMPLE ID	SAMPLE DATE	SAMPLE TIME	SAMPLING COLLECTION	FIELD OVM READING	TPH - cumulative	Benzene	BTEX - cumulative	Soil Description / Comments
				(ppm)	(ppm)	(ppm)	(ppm)	
GS @ 10' (21-A)	04/24/12	1040	Grab	NA	4,030	ND	7.7	Pale to dark yellowish orange sand to boulder size cobbles Excavated & Removed
BGT 21A @ 15'	06/07/12	1312	Grab	NA	3,300	ND	5.2	Pale to dark yellowish orange sand to boulder size cobbles Excavated & Removed
BGT 21A @ 20'	06/07/12	1343	Grab	2.4	4,000	ND	5.5	Pale to dark yellowish orange sand to boulder size cobbles Excavated & Removed
1 @ 10'	10/29/12	1041	Grab	2.4	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
2 @ 10'	10/29/12	1044	Grab	3.6	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
3 @ 9'	10/29/12	1050	Grab	2.0	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
4 @ 9'	10/29/12	1052	Grab	2.0	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
4PC - SW @ 20'	10/29/12	1120	4 pt. comp.	NA	56	ND	ND	4 point composite sample of sidewall samples 1, 2, 3, & 4
1A @ 20'	11/07/12	1035	Grab	0.0	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
2A @ 20'	11/07/12	1345	Grab	2.5	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
3A @ 20'	11/07/12	1349	Grab	2.9	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
4A @ 20'	11/07/12	1354	Grab	2.7	NA	NA	NA	Pale to dark yellowish orange sand to boulder size cobbles
4PC - SW @ 20'	11/07/12	1359	4 pt. comp.	NA	ND	ND	ND	4 point composite sample of sidewall samples 1A, 2A, 3A, & 4A

NMOCD RELEASE CLOSURE STANDARDS (soils) - 100

100 10 50

Notes:

OVM - Organic vapor meter or photo-ionization detector (PID).

TPH - Total petroleum hydrocarbons by US EPA Method 8015B.

BTEX - Benzene, toluene, ethylbenzene, total xylenes by US EPA Method 8021B.

<u>ppm -</u> Parts per million or milligram per kilogram (mg/Kg). <u>ND -</u> Not detected at Reporting Limit. <u>NMOCD -</u> New Mexico Oil Conservation Division.

NMOCD RELEASE CLOSURE STANDARDS REFERENCE: "Guidelines for Remediation of Leaks, Spills and Releases" dated: August 13, 1993.

OVM CALIBRATION: RESPONSE FACTOR = 0.52 or 1.00, CALIBRATION GAS - 100 ppm ISOBUTYLENE.

OVM CALIBRATION DATA	DATE	TIME	READING
	10/29/12	1056	54.1
	10/29/12	1101	54

DATE	TIME	READING
11/05/12	1030	52.7
11/07/12	1101	52.7

Page 1 of 1

Distance collected in field using tape measure, bearings determined using Google Earth Pro; Imagery date: 06/10/2011.

BP AMERICA PRODUCTION COMPANY

MARCOTTE GC # 1 (MV) - (Release discovered beneath 21-A BGT)

Unit Letter H, Section 5, T31N, R10W - API Number: 30-045-11067

Field & Laboratory Data from Groundwater Monitor Wells & Formation Produced Water

				FIELD PAR	AMETERS			
SAMPLE ID	SAMPLE DATE	SAMPLE TIME	DEPTH TO	TOTAL MW	pH	Conductivity	Temperature	Volume
			WATER	LENGTH				Purged
			(feet)	(feet)		(µmhos/cm)	(°Celcius)	(gallons)
MW # 5 (source area)	04/29/13	0855	24.88	32.06	6.64	1,600	13.5	3.50
LP AGT PRODUCED WATER	05/14/15	1011	NA	NA	NA	NA	NA	NA
			NMWQC	C STANDARDS -	6 - 9			

				LAROPA	TOPY DADA	METEDS			
				LADUKA	IUNI PARA	IVIEIERS			
SAMPLE ID	Fluoride	Chloride	Sulfate	Nitrate-	TDS	Benzene	Toluene	Ethyl -	Total Xylenes
				Nitrite as N				benzene	
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	0.50		500		1 5 10				
MW # 5 (source area)	0.58	94	690	2.7	1,540	ND	ND	ND	ND
	NA	NIA	ND	NA	ND	NA	NA	NA	NIA
LP AGT PRODUCED WATER	INA	NA	ND	INA	ND	NA	NA	NA	NA
NMWQCC STANDARDS -	1.6	250	600	10	1,000	10	750	750	620

Notes:

Depth to water measured from casing top of monitor well.

Groundwater standards are applied to values assigned in blue highlighted boxes or confirmed background levels, which ever is higher.

MW - Monitor well

µmhos/cm - Micromhos per centimeter

- TDS Total dissolved solids
- mg/L Milligram per Liter
- µg/L Microgram per liter
- ND Not detected at Reporting Limit
- NA Not available or applicable

NMWQCC - New Mexico Water Quality Control Commission



Analytical Report Lab Order 1204A06

Date Reported: 5/1/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering		(Client Samp	ole ID: Source (ā) 4'		
Project: Marcott GC 1	Collection Date: 4/25/2012 12:10:00 PM						
Lab ID: 1204A06-001	Matrix: S	OIL	Received	Date: 4/26/201	2 9:58:00 AM		
Analyses	Result	RL Qual	Units	DF	Date Analyzed		
MERCURY, TCLP					Analyst: JLF		
Mercury	ND	0.020	mg/L	1	4/30/2012 4:48:23 PM		
EPA METHOD 6010B: TCLP METALS					Analyst: ELS		
Arsenic	ND	5.0	mg/L	1	4/30/2012 7:38:11 AM		
Barium	ND	100	mg/L	5	4/30/2012 8:36:32 AM		
Cadmium	ND	1.0	mg/L	1	4/30/2012 7:38:11 AM		
Chromium	ND	5.0	mg/L	1	4/30/2012 7:38:11 AM		
Lead	ND	5.0	mg/L	1	4/30/2012 7:38:11 AM		
Selenium	ND	1.0	mg/L	1	4/30/2012 7:38:11 AM		
Silver	ND	5.0	mg/L	1	4/30/2012 7:38:11 AM		

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

Page 1 of 8

Client:Blagg EngineeringProject:Marcott GC 1

Sample ID: MB-1715	SampType: MBLK	TestCode: EPA Method	300.0: Anions	
Client ID: PBS	Batch ID: 1715	RunNo: 2461		
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68552	Units: mg/Kg	
Analyte	Result PQL SPK value S	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Chloride	ND 1.5			
Sample ID: LCS-1715	SampType: LCS	TestCode: EPA Method	300.0: Anions	
Sample ID: LCS-1715 Client ID: LCSS	SampType: LCS Batch ID: 1715	TestCode: EPA Method RunNo: 2461	300.0: Anions	
Sample ID: LCS-1715 Client ID: LCSS Prep Date: 4/27/2012	SampType: LCS Batch ID: 1715 Analysis Date: 4/29/2012	TestCode: EPA Method RunNo: 2461 SeqNo: 68553	300.0: Anions Units: mg/Kg	
Sample ID: LCS-1715 Client ID: LCSS Prep Date: 4/27/2012 Analyte	SampType: LCS Batch ID: 1715 Analysis Date: 4/29/2012 Result PQL SPK value S	TestCode: EPA Method RunNo: 2461 SeqNo: 68553 SPK Ref Val %REC LowLimit	300.0: Anions Units: mg/Kg HighLimit %RPD	RPDLimit Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Client: Blagg Engineering Project: Marcott GC 1

Sample ID: MB-1708	SampTyp	e: MB	LK	Tes	tCode: El	PA Method	8015B: Diese	l Range C	Organics	
Client ID: PBS	Batch IE	D: 170	8	F	RunNo: 2	386				
Prep Date: 4/26/2012	Analysis Date	e: 4/2	7/2012	S	SeqNo: 6	7173	Units: mg/K	g		
Analyte	Result F	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	10		10.00		101	77.4	131			
Sample ID: LCS-1708	SampTyp	e: LCS	3	Tes	tCode: El	PA Method	8015B: Diese	Range C	Organics	
Sample ID: LCS-1708 Client ID: LCSS	SampTyp Batch IE	e: LCS	8	Tes R	tCode: El	PA Method 386	8015B: Diese	I Range C	Organics	
Sample ID: LCS-1708 Client ID: LCSS Prep Date: 4/26/2012	SampTyp Batch IE Analysis Date	e: LCS D: 170 e: 4/2	8 7/2012	Tes R S	tCode: EF RunNo: 2: GeqNo: 6	PA Method 386 7174	8015B: Diese Units: mg/K	l Range C	Organics	
Sample ID: LCS-1708 Client ID: LCSS Prep Date: 4/26/2012 Analyte	SampTyp Batch IE Analysis Date Result F	e: LCS D: 170 e: 4/2 PQL	8 7/2012 SPK value	Tes F S SPK Ref Val	tCode: EF RunNo: 2: SeqNo: 6: %REC	PA Method 386 7174 LowLimit	8015B: Diese Units: mg/K HighLimit	I Range C g %RPD	Drganics RPDLimit	Qual
Sample ID: LCS-1708 Client ID: LCSS Prep Date: 4/26/2012 Analyte Diesel Range Organics (DRO)	SampTyp Batch IE Analysis Date Result F 50	e: LCS D: 170 e: 4/2 PQL 10	8 7/2012 SPK value 50.00	Tes F S SPK Ref Val 0	tCode: EF RunNo: 2: BeqNo: 6 %REC 100	PA Method 386 7174 LowLimit 62.7	8015B: Diese Units: mg/K HighLimit 139	I Range C g %RPD	Drganics RPDLimit	Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- Analyte detected in the associated Method Blank В
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

1204A06

WO#:

Client: Blagg Engineering Project: Marcott GC 1

Sample ID: MB-1707	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Rang	е
Client ID: PBS	Batch ID: 1707	RunNo: 2439		
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67693	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	1,000 1,000	101 69.7	121	
Sample ID: LCS-1707	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Rang	e
Client ID: LCSS	Batch ID: 1707	RunNo: 2439		
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67694	Units: mg/Kg	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Gasoline Range Organics (GRO)	29 5.0 25.00	0 117 98.5	133	
Surr: BFB	1,100 1,000	107 69.7	121	
Sample ID: MB-1721	SampType: MBLK	TestCode: EPA Method	8015B: Gasoline Range	e
Client ID: PBS	Batch ID: 1721	RunNo: 2448		
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68072	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	1,000 1,000	101 69.7	121	
Sample ID: LCS-1721	SampType: LCS	TestCode: EPA Method	8015B: Gasoline Range	e
Client ID: LCSS	Batch ID: 1721	RunNo: 2448		
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68073	Units: %REC	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: BFB	1,100 1,000	107 69.7	121	

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1204A06

01-May-12

Client: Blagg Engineering

Project: Marcott GC 1

Sample ID: MB-1707	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles
Client ID: PBS	Batch ID: 1707	RunNo: 2439	
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67731	Units: mg/Kg
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Benzene	ND 0.050		
Toluene	ND 0.050		
Ethylbenzene	ND 0.050		
Xylenes, Total	ND 0.10		
Surr: 4-Bromofluorobenzene	0.93 1.00	93.0 80	120
Sample ID: LCS-1707	SampType: LCS	TestCode: EPA Method	8021B: Volatiles
Client ID: LCSS	Batch ID: 1707	RunNo: 2439	
Prep Date: 4/26/2012	Analysis Date: 4/27/2012	SeqNo: 67732	Units: mg/Kg
Analyte	Result PQL SPK valu	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Benzene	0.93 0.050 1.00	0 0 92.5 83.3	107
Toluene	0.97 0.050 1.00	0 96.9 74.3	115
Ethylbenzene	0.96 0.050 1.00	0 95.8 80.9	122
Xylenes, Total	2.9 0.10 3.00	0 96.0 85.2	123
Surr: 4-Bromofluorobenzene	0.96 1.00	95.9 80	120
Sample ID: MB-1721	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles
Client ID: PBS	Batch ID: 1721	RunNo: 2448	
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68122	Units: %REC
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.92 1.00	92.4 80	120
Sample ID: LCS-1721	SampType: LCS	TestCode: EPA Method	8021B: Volatiles
Client ID: LCSS	Batch ID: 1721	RunNo: 2448	
Prep Date: 4/27/2012	Analysis Date: 4/29/2012	SeqNo: 68123	Units: %REC
Analyte	Result PQL SPK value	e SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: 4-Bromofluorobenzene	0.97 1.00	96.8 80	120

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

WO#: 1204A06

01-May-12

Client: Blagg Engineering Project: Marcott GC 1

Sample ID: MB-1740	SampType: MBLK	TestCode: MERCURY,	TCLP
Client ID: PBW	Batch ID: 1740	RunNo: 2469	
Prep Date: 4/30/2012	Analysis Date: 4/30/2012	SeqNo: 68685	Units: mg/L
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Mercury	ND 0.020		
Sample ID: LCS-1740	SampType: LCS	TestCode: MERCURY,	TCLP
Client ID: LCSW	Batch ID: 1740	RunNo: 2469	
Prep Date: 4/30/2012	Analysis Date: 4/30/2012	SeaNo: 68686	Units: ma/l
i top Bater interiating	, and join ballot another in	00000	orinto. Ingre
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Client: Blagg Engineering

Project: Marcott GC 1

Sample ID: MB-1730	SampT	Гуре: МЕ	зlк	Tes	tCode: EF	PA Method	6010B: TCLF	P Metals		
Client ID: PBW	Batch	h ID: 17	30	F	RunNo: 24	471				
Prep Date: 4/29/2012	Analysis D	Date: 4/	30/2012	S	SeqNo: 6	8718	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								
Sample ID: LCS-1730	SampT	Type: LC	s	Tes	tCode: EF	PA Method	6010B: TCLF	P Metals		
Client ID: LCSW	Batch	h ID: 17	30	F	RunNo: 24	471				
Prep Date: 4/29/2012	Analysis D	Date: 4/	30/2012	S	SeqNo: 68	8719	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.0	0.5000	0.01879	108	80	120			
Barium	ND	100	0.5000	0	97.2	80	120			
Cadmium	ND	1.0	0.5000	0	105	80	120			
Chromium	ND	5.0	0.5000	0	97.9	80	120			
Lead	ND	5.0	0.5000	0	98.0	80	120			
Selenium	ND	1.0	0.5000	0	110	80	120			
Silver	ND	50	0 1000	0	105	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Received by/date: ATTOMIZUI2 Logged By: Anne Thome 4/26/2012 6:56:00 AM Am. Am. Completed By: Anne Thome 4/26/2012 6:56:00 AM Am. Am. Reviewed By: Article American	Received by/date: Amothation: ogged By: Anne Thome 4/26/2012 Anne Amothation: completed By: Anne Thome 4/26/2012 Anne Amothation: completed By: Anne Thome 4/26/2012 Anne Amothation: completed By: Anne Thome 4/26/2012 Anne Amothation: hein of Custody Output: Output: Anne Amothation: 1. Were seals infact? Yes No Not Present 2. Is Chain of Custody complete? Yes No Not Present 3. How was the sample delivered? Courier Courier cool is a present? (see 19. for cooler specific information) Yes No NA 5. Was an attempt made to cool the samples? Yes No NA 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 7. Sample(s) In proper container(s)? Yes No NA 8. Sufficient sample volume for indicated test(s)? Yes No No No 9. Are samples (nample containers received broken? Yes No No VOA Viais 9. Was preservative ad	Client Name: BLAGG	Work Order Number: 1204A06
Logged By: Anne Thome 4/26/2012 9:56:00 AM Am. Am. Completed By: Ang Thome 4/26/2012 Am. Am. Reviewed By: Ord 201 210 1. Were seals intact? Yes No Not Present 2. Is Chain of Custody complete? Yes No Not Present 3. How was the sample delivered? Courier Courier 4. Coolers are present? (see 19, for cooler specific information) Yes No NA 5. Was an attempt made to cool the samples? Yes No NA 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 7. Sample(s) in proper container(s)? Yes No NA 9. Are samples (except VOA and ONG) properly preserved? Yes No NA 10. Was preservative added to bottles? Yes No No No VOA Vials M 12. Were any sample containers received broken? Yes No Ma Ma 13. boc paperwidt match bottle labels? Yes No Ma Ma 13. Use paperwidt match bottle labels? Yes No Ma Ma <td>ogged By: Anne Thome 4/26/2012 9:58:00 AM Jan. Jan. bornpleted By: Ange Thome 4/26/2012 Jan. Jan. hain of Custody CH 20/172 Jan. hain of Custody CH 20/172 Jan. hain of Custody complete? Yes No Not Present 2. Is Chain of Custody complete? Ocuriet Ocuriet 9. How was the sample delivered? Couriet Ocuriet 9. Mas an attempt made to cool the samples? Yes No NA 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 7. Sample(s) in proper container(s)? Yes No NA Inc. 9. Are samples (except VOA and ONG) properly preserved? Yes No NA Inc. 1. VOA vials have zero headspace? Yes No No Inc. Inc. Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Corr> Yes No No No Inc. Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Cor >12 unless noted) Adjuste</td> <td>Received by/date: AT04/26/12</td> <td></td>	ogged By: Anne Thome 4/26/2012 9:58:00 AM Jan. Jan. bornpleted By: Ange Thome 4/26/2012 Jan. Jan. hain of Custody CH 20/172 Jan. hain of Custody CH 20/172 Jan. hain of Custody complete? Yes No Not Present 2. Is Chain of Custody complete? Ocuriet Ocuriet 9. How was the sample delivered? Couriet Ocuriet 9. Mas an attempt made to cool the samples? Yes No NA 6. Were all samples received at a temperature of >0° C to 6.0°C Yes No NA 7. Sample(s) in proper container(s)? Yes No NA Inc. 9. Are samples (except VOA and ONG) properly preserved? Yes No NA Inc. 1. VOA vials have zero headspace? Yes No No Inc. Inc. Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Corr> Yes No No No Inc. Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Adjusted? Cor >12 unless noted) Adjuste	Received by/date: AT04/26/12	
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11. VOA vials have zero headspace? Yes No No VOA Vials 12. Were any sample containers received broken? Yes No 13. Does paperwork match bottle labels? Yes No (Note discrepancies on chain of custody) Yes No 14. Are matrices correctly identified on Chain of Custody? Yes No 15. Is it clear what analyses were requested? Yes No (If no, notify customer for authorization.) Yes No Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No Na Person Notified: Date By Whom: Via: eMail Regarding: Client Instructions: 18. Additional remarks:	1. VOA vials have zero headspace? Yes No No VOA Vials 2. Were any sample containers received broken? Yes No # of preserved bottle labels? 3. Does paperwork match bottle labels? Yes No # of preserved bottle checked for pH: (Note discrepancies on chain of custody) Yes No # of preserved bottles checked for pH: 4. Are matrices correctly identified on Chain of Custody? Yes No Adjusted? 5. Is it clear what analyses were requested? Yes No Adjusted? 6. Were all holding times able to be met? Yes No Checked by: (If no, notify customer for authorization.) Checked by: Checked by: Decial Handling (Iff applicable) Date	10. Was preservative added to bottles?	Yes 🗌 No 🗹 🛛 NA 🗌
12. Were any sample containers received broken? Yes No 13. Does paperwork match bottle labels? Yes No (Note discrepancies on chain of custody) Yes No 14. Are matrices correctly identified on Chain of Custody? Yes No 15. Is it clear what analyses were requested? Yes No (If no, notify customer for authorization.) Yes No Special Handling (If applicable) 17. Was client notified of all discrepancies with this order? Yes No No Na Person Notified: By Whom: Regarding: Client Instructions: 18. Additional remarks:	2. Were any sample containers received broken? Yes No ✓ 3. Does paperwork match bottle labels? Yes No ✓ (Note discrepancies on chain of custody) Yes No ✓ 4. Are matrices correctly identified on Chain of Custody? Yes No ✓ 5. Is it clear what analyses were requested? Yes No ✓ 6. Were all holding times able to be met? Yes No ✓ (If no, notify customer for authorization.) Checked by: Checked by: Decial Handling (if applicable) Date ✓ 7. Was client notified of all discrepancies with this order? Yes No NA ✓ Person Notified:	11 VOA vials have zero headspace?	Yes 🗌 No 💭 No VOA Vials 🗹
13. Does paperwork match bottle labels? Yes Yes # of preserved bottles checked for pH: 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted) 15. Is it clear what analyses were requested? Yes No Adjusted? 16. Were all holding times able to be met? Yes No Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No No Na Na Na No No Adjusted? Checked by: Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No No Na	3. Does paperwork match bottle labels? Yes ✓ No # of preserved bottles checked for pH: (Note discrepancies on chain of custody) Yes ✓ No (<2 or >12 unless noted) 4. Are matrices correctly identified on Chain of Custody? Yes ✓ No (<2 or >12 unless noted) 5. Is it clear what analyses were requested? Yes ✓ No Adjusted? 6. Were all holding times able to be met? Yes ✓ No Adjusted? (If no, notify customer for authorization.) Checked by: Checked by: Decial Handling (If applicable) 7. Was client notified of all discrepancies with this order? Yes No NA 7. Was client notified:	12. Were any sample containers received broken?	Yes No 🗹
14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted) 15. Is it clear what analyses were requested? Yes No Adjusted? 16. Were all holding times able to be met? Yes No Checked by: (If no, notify customer for authorization.) Yes No NA Special Handling (If applicable) Checked by: Checked by: 17. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date Date	4. Are matrices correctly identified on Chain of Custody? Yes ✓ No (<2 or >12 unless noted) 5. Is it clear what analyses were requested? Yes ✓ No Adjusted? 6. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ✓ No Checked by: Decial Handling (if applicable) 7. Was client notified: Person Notified: Date By Whom: Via: eMail Person Notified: Client Instructions: 8. Additional remarks:	 13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 	Yes V No H # of preserved bottles checked for pH
15. Is it clear what analyses were requested? Yes No Adjusted? 16. Were all holding times able to be met? Yes No Checked by: (If no, notify customer for authorization.) Checked by:	5. Is it clear what analyses were requested? Yes ✓ No Adjusted? 6. Were all holding times able to be met? Yes ✓ No Checked by: Decial Handling (if applicable) 7. Was client notified of all discrepancies with this order? Yes No No NA Person Notified: By Whom: Regarding: Client Instructions: 8. Additional remarks:	14. Are matrices correctly identified on Chain of Custody?	Yes ✓ No (<2 or >12 unless noted)
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes No Checked by: Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date	6. Were all holding times able to be met? Yes (If no, notify customer for authorization.) Decial Handling (if applicable) 7. Was client notified of all discrepancies with this order? Yes No NA Person Notified: By Whom: Regarding: Client Instructions: 8. Additional remarks:	15. Is it clear what analyses were requested?	Yes 🗹 No 🗌 Adjusted?
Special Handling (if applicable) 17. Was client notified of all discrepancies with this order? Yes NA Person Notified: By Whom: Regarding: Client Instructions: 18. Additional remarks:	Decial Handling (if applicable) 7. Was client notified of all discrepancies with this order? Yes No No NA P Person Notified: By Whom: Regarding: Client Instructions: 8. Additional remarks:	16. Were all holding times able to be met?	Yes 🗹 No
17. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date By Whom: Via: eMail Phone Regarding: Client Instructions: 18. Additional remarks:	7. Was client notified of all discrepancies with this order? Yes No NA Person Notified: Date	Special Handling (if applicable)	
Person Notified: Date By Whom: Via: Client Instructions:	Person Notified: Date By Whom: Via: Regarding: Client Instructions:	17 Was client notified of all discremancies with this order?	
Person Notified: Date By Whom: Via: Regarding: Client Instructions:	Person Notified: Date By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 8. Additional remarks: 9. Additional remarks: 9. Additional remarks:		
By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 18. Additional remarks: 18. Additional remarks:	By Whom: Regarding: Client Instructions: 8. Additional remarks:	Person Notified: Date	
Regarding: Client Instructions: 18. Additional remarks:	Regarding: Client Instructions: 8, Additional remarks:	By Whom: Via:	eMail Dehone Fax In Person
18. Additional remarks:	8, Additional remarks:	Regarding:	
18. Additional remarks:	8, Additional remarks:	Client Instructions:	· · · · · · · · · · · · · · · · · · ·
		18. Additional remarks:	×

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.5	Good	Yes			

С	hain-	of-Cu	istody Record	Turn-Around	Time:	Bra	TUES							-								
Client:	BLAG	6 EM	ONEFRING INC.	☐ Standard	Rush	MA	-1		Angelia In Cold an Angelia (Incold an							5 I 7 I 7 I			ME			
1	3P 1	MER	~ A	Project Name	ə:				a		-									411	UR	k II.
Mailing	Address	Po	Ray 97	MAR	COTT G	C 1			10	01 W	loude		v.na	Alb		orau			7100			
T	Ziona	AFIER	NM 87413	Project #:					49 T/		15 2/	15 20	075		Fox	FOE	245	110 N	109			
Phone	#: 5	05-6	37-1199						10	51. 30	0-34	-3-3	а75 А	naly	/sis	Red	ues	-410 t				
email or	Fax#:	<u> </u>		Project Mana	iger:				()	(lei					(4)							
QA/QC I	Package: dard		□ Level 4 (Full Validation)	J-	BLAGG			(8021	Gas or	as/Dies			8	LP	204,SC	PCB's						
Accredi	tation			Sampler:	T. BLAG	6	- g th Verson	THE REAL	HH ((C	_	=		E	10 ₂ ,1	082						-
O NEL	AP	□ Othe	r	On Ice	X OYes	🗉 No		H	F +	015E	118.	504.	AH	9	0 ₃ ,N	s / 8		(A)	D.			or N
	(Type)_			Sample Tem	perature	\sim		IBI	TBE	8 pc	pod 4	po	or	etals	CI,N	cide	(A)	i-VC	CIDE			2
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HI 12.04	EAL ND. I AD CO.	BTEX + M	BTEX + M ⁻	TPH Metho	TPH (Meth	EDB (Meth	8310 (PNA	RCRA 8 M	Anions (F,0	8081 Pesti	8260B (VO	8270 (Sem	CHLOR			Air Ruhhlad
4/25/12	1210	SOIL	SOURCE Q. 4'	4ozx1	Caul		- od							X								
11	1230	1(SOURCE @ 5'	۱(ч		-002	x		X									X			+
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Date:	1440 Time:	Relinquishe	ed by:	Received by:	Walles	Date	Time	N	15	44	UZ	L										
4/25/12	1631	An	atin Valter 2	A	20412	6/12	0958	J	ĒFF	F	2 A	E										

Analytical Report Lab Order 1210D02

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 11/1/2012 Client Sample ID: 4PC-SW@9'-10'

CLIENT: Blagg Engineering Marcotte GC #1 **Project:**

Lab ID: 1210D02-001

Collection Date: 10/29/2012 11:20:00 AM Matrix: MEOH (SOIL) Received Date: 10/30/2012 9:50:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RAN	GE ORGANICS				Analyst: JMP
Diesel Range Organics (DRO)	56	9.7	mg/Kg	1	10/30/2012 12:37:04 PM
Surr: DNOP	104	77.6-140	%REC	1	10/30/2012 12:37:04 PM
EPA METHOD 300.0: ANIONS					Analyst: SRM
Chloride	ND	30	mg/Kg	20	10/30/2012 11:48:49 AM
EPA METHOD 8260B: VOLATILES S	SHORT LIST				Analyst: RAA
Benzene	ND	0.050	mg/Kg	1	10/30/2012 2:28:21 PM
Toluene	ND	0.050	mg/Kg	1	10/30/2012 2:28:21 PM
Ethylbenzene	ND	0.050	mg/Kg	1	10/30/2012 2:28:21 PM
Xylenes, Total	ND	0.10	mg/Kg	1	10/30/2012 2:28:21 PM
Surr: 1,2-Dichloroethane-d4	85.5	70-130	%REC	1	10/30/2012 2:28:21 PM
Surr: 4-Bromofluorobenzene	92.0	70-130	%REC	1	10/30/2012 2:28:21 PM
Surr: Dibromofluoromethane	89.1	70-130	%REC	1	10/30/2012 2:28:21 PM
Surr: Toluene-d8	101	70-130	%REC	1	10/30/2012 2:28:21 PM
EPA METHOD 8015B MOD: GASOL	INE RANGE				Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	10/30/2012 2:28:21 PM
Surr: BFB	92.0	70-130	%REC	1	10/30/2012 2:28:21 PM

Qualifiers:

- Value exceeds Maximum Contaminant Level. *
- Value above quantitation range E
- Analyte detected below quantitation limits J
- Sample pH greater than 2 Р
- Reporting Detection Limit RL

Analyte detected in the associated Method Blank В

- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits S

Blagg Engineering **Client: Project:** Marcotte GC #1

Sample ID	MB-4580	Samp	Гуре: МІ	BLK	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	PBS	Batc	h ID: 45	80	F	RunNo: 6	579				
Prep Date:	10/30/2012	Analysis [Date: 1	0/30/2012	S	SeqNo: 1	89923	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-4580	Samp	Type: LC	s	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	LCSS	Batc	h ID: 45	80	R	RunNo: 6	579				
Prep Date:	10/30/2012	Analysis [Date: 1	0/30/2012	S	SeqNo: 1	89924	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.9	90	110			
Sample ID	1210B86-015AMS	Samp	Гуре: МЗ	3	Tes	tCode: E	PA Method	300.0: Anion	IS		
Sample ID Client ID:	1210B86-015AMS BatchQC	Samp Batc	Гуре: <mark>М</mark> h ID: 45	5 80	Tesi	tCode: E RunNo: 6	PA Method 579	300.0: Anion	IS		
Sample ID Client ID: Prep Date:	1210B86-015AMS BatchQC 10/30/2012	Samp Batc Analysis [Type: M: h ID: 45 Date: 10	S 80 D/30/2012	Tes R S	tCode: E RunNo: 6 GeqNo: 1	PA Method 579 89951	300.0: Anion Units: mg/ł	is (g		
Sample ID Client ID: Prep Date: Analyte	1210B86-015AMS BatchQC 10/30/2012	Samp Batc Analysis E Result	Type: MS h ID: 45 Date: 10 PQL	5 80 0/30/2012 SPK value	Tesi R S SPK Ref Val	tCode: E RunNo: 6 GeqNo: 1 %REC	PA Method 579 89951 LowLimit	300.0: Anion Units: mg/H HighLimit	is (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride	1210B86-015AMS BatchQC 10/30/2012	Samp Batc Analysis E Result 14	Fype: MS h ID: 45 Date: 10 PQL 7.5	5 80 0/30/2012 SPK value 15.00	Tesi R S SPK Ref Val 0	tCode: E RunNo: 6 GeqNo: 1 %REC 92.4	PA Method 579 89951 LowLimit 64.4	300.0: Anion Units: mg/k HighLimit 117	s (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride	1210B86-015AMS BatchQC 10/30/2012 1210B86-015AMS	Samp Batc Analysis [Result 14 D Samp	Type: MS h ID: 45 Date: 10 PQL 7.5	8 80 0/30/2012 SPK value 15.00	Tesi R SPK Ref Val 0 Tesi	tCode: E RunNo: 6 GeqNo: 1 %REC 92.4 tCode: E	PA Method 579 89951 LowLimit 64.4 PA Method	300.0: Anion Units: mg/F HighLimit 117 300.0: Anion	s % %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID:	1210B86-015AMS BatchQC 10/30/2012 1210B86-015AMS BatchQC	Samp Batc Analysis E Result 14 D Samp Batc	Fype: MS h ID: 45 Date: 10 PQL 7.5 Fype: MS h ID: 45	80 0/30/2012 SPK value 15.00 6D 80	Test R SPK Ref Val 0 Test R	tCode: E RunNo: 6 BeqNo: 1 %REC 92.4 tCode: E RunNo: 6	PA Method 579 89951 LowLimit 64.4 PA Method 579	300.0: Anion Units: mg/F HighLimit 117 300.0: Anion	s %g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date:	1210B86-015AMS BatchQC 10/30/2012 1210B86-015AMS BatchQC 10/30/2012	Samp Batcl Analysis I Result 14 D Samp Batcl Analysis I	Fype: MS h ID: 45 Date: 10 PQL 7.5 Fype: MS h ID: 45 Date: 10	5 80 0/30/2012 SPK value 15.00 5D 80 0/30/2012	Tesi R SPK Ref Val 0 Tesi R S	tCode: E RunNo: 6 SeqNo: 1 %REC 92.4 tCode: E tunNo: 6 SeqNo: 1	PA Method 579 89951 LowLimit 64.4 PA Method 579 89952	300.0: Anion Units: mg/F HighLimit 117 300.0: Anion Units: mg/F	s (g %RPD s (g	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Chloride Sample ID Client ID: Prep Date: Analyte	1210B86-015AMS BatchQC 10/30/2012 1210B86-015AMS BatchQC 10/30/2012	Samp Batc Analysis E Result 14 D Samp Batc Analysis E Result	Fype: MS h ID: 45 Date: 11 PQL 7.5 Fype: MS h ID: 45 Date: 10 PQL	S 80 0/30/2012 SPK value 15.00 SD 80 0/30/2012 SPK value	Tesi SPK Ref Val 0 Tesi R SPK Ref Val	tCode: E RunNo: 6 SeqNo: 1 %REC 92.4 tCode: E RunNo: 6 SeqNo: 1 %REC	PA Method 579 89951 LowLimit 64.4 PA Method 579 89952 LowLimit	300.0: Anion Units: mg/F HighLimit 117 300.0: Anion Units: mg/F HighLimit	s (g %RPD s (g %RPD	RPDLimit	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level. *

Value above quantitation range Е

J Analyte detected below quantitation limits

Р Sample pH greater than 2

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RPD outside accepted recovery limits R

WO#: 1210D02

01-Nov-12

Client: Blagg Engineering

Project: Marcotte GC #1

Sample ID MB-4587	SampTy	pe: ME	BLK	Tes	tCode: E	PA Method	8015B: Dies	el Range (Organics	
Client ID: PBS	Batch I	D: 45	87	F	RunNo: 6	555				
Prep Date: 10/30/2012	Analysis Da	te: 10	0/30/2012	S	SeqNo: 1	89600	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	12		10.00		115	77.6	140			
Sample ID LCS-4587	SampTy	be: LC	S	Tes	tCode: El	PA Method	8015B: Dies	el Range (Drganics	
Client ID: LCSS	Batch I	D: 45	87	R	RunNo: 6	555				
Prep Date: 10/30/2012	Analysis Dat	te: 10	0/30/2012	S	eqNo: 1	89622	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	54	10	50.00	0	108	52.6	130			
Surr: DNOP	5.3		5.000		105	77.6	140			
								al Danas (
Sample ID 1210D04-001AMS	SampTyp	be: MS	5	Test	Code: El	PA Method	8015B: Dies	el Range C	organics	
Sample ID 1210D04-001AMS Client ID: BatchQC	SampTyp Batch I	D: 45	S 87	Tes R	tunNo: 6	PA Method 584	8015B: Dies	ei Range C	Irganics	
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012	SampTyp Batch I Analysis Dat	D: 45 D: 45 te: 10	S 87 D/31/2012	Tesi R S	icode: El iunNo: 6 ieqNo: 1	PA Method 584 90444	Units: mg/k	(g	organics	
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte	SampTyr Batch I Analysis Dat Result	De: MS D: 45 te: 10 PQL	87 0/31/2012 SPK value	Tesi R S SPK Ref Val	iCode: El IunNo: 6 SeqNo: 1 %REC	PA Method 584 90444 LowLimit	Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO)	SampTyr Batch I Analysis Dat Result 50	De: MS D: 45 te: 10 PQL 10	5 87 0/31/2012 SPK value 52.03	Test R SPK Ref Val 0	Code: El 2unNo: 6 6eqNo: 1 %REC 96.8	PA Method 584 90444 LowLimit 57.2	Units: mg/k HighLimit 146	%RPD	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP	Batch I Batch I Analysis Dat Result 50 4.8	De: MS D: 45 te: 10 PQL 10	5 87 0/31/2012 SPK value 52.03 5.203	Test R SPK Ref Val 0	200de: El 200No: 6 3000: 11 3000: 11 30	PA Method 584 90444 LowLimit 57.2 77.6	Units: mg/k HighLimit 146 140	%RPD	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP	SampTy; Batch I Analysis Dat Result 50 4.8 D SampTy;	De: MS D: 45 de: 10 PQL 10 De: MS	5 87)/31/2012 SPK value 52.03 5.203	Test R SPK Ref Val 0 Test	Code: El RunNo: 6 SeqNo: 1 %REC 96.8 92.8 Code: El	PA Method 584 90444 LowLimit 57.2 77.6 PA Method	Units: mg/k HighLimit 146 140 8015B: Diese	(g %RPD el Range (RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1210D04-001AMS Client ID: BatchQC	SampTy; Batch I Analysis Dat Result 50 4.8 D SampTy; Batch I	De: MS D: 45 de: 10 PQL 10 De: MS D: 45	5 87 0/31/2012 SPK value 52.03 5.203 5.203 87	Tesi R SPK Ref Val 0 Tesi R	200de: El 200No: 6 3eqNo: 1 %REC 96.8 92.8 92.8 200de: El 200de: El	PA Method 584 90444 LowLimit 57.2 77.6 PA Method 584	Units: mg/k HighLimit 146 140 8015B: Diese	kg %RPD el Range C	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012	s SampTyr Batch I Analysis Dat Result 50 4.8 B B SampTyr Batch I Analysis Dat	De: MS D: 45 de: 10 PQL 10 De: MS D: 45 de: 10	87 87 37/2012 SPK value 52.03 5.203 5.203 87 87 0/31/2012	Tesi R SPK Ref Val 0 Tesi R S	Code: El tunNo: 6 teqNo: 11 %REC 96.8 92.8 92.8 tCode: El tunNo: 6 tunNo: 6 tunNo: 6 tunNo: 6	PA Method 584 90444 57.2 77.6 PA Method 584 90445	Units: mg/k HighLimit 146 140 8015B: Diese Units: mg/k	(g %RPD el Range C	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte	s SampTy; Batch I Analysis Dat Result 50 4.8 50 SampTy; Batch I Analysis Dat Result	De: MS D: 45 te: 10 PQL 10 De: MS D: 45 te: 10 PQL	5 87)/31/2012 SPK value 52.03 5.203 5.203 6D 87)/31/2012 SPK value	Tesi R SPK Ref Val 0 Tesi R SPK Ref Val	Code: El LunNo: 6 SeqNo: 1 %REC 96.8 92.8 22.8 Code: El LunNo: 6 SeqNo: 1 %REC	PA Method 584 90444 LowLimit 57.2 77.6 PA Method 584 90445 LowLimit	Units: mg/k HighLimit 146 140 8015B: Diese Units: mg/k HighLimit	ki Range (Kg %RPD el Range (Kg %RPD	RPDLimit	Qual
Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID 1210D04-001AMS Client ID: BatchQC Prep Date: 10/30/2012 Analyte Diesel Range Organics (DRO)	SampTy; Batch I Analysis Dat Result 50 4.8 D SampTy; Batch I Analysis Dat Result 51	De: MS D: 45 de: 10 PQL 10 De: MS D: 45 de: 10 PQL 10	5 87)/31/2012 SPK value 52.03 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203 5.203	Test R SPK Ref Val 0 Test R SPK Ref Val 0	Code: El cunNo: 6 seqNo: 1 %REC 96.8 92.8 Code: El cunNo: 6 seqNo: 1 %REC 101	PA Method 584 90444 LowLimit 57.2 77.6 PA Method 584 90445 LowLimit 57.2	Units: mg/k HighLimit 146 140 8015B: Diese Units: mg/k HighLimit 146	(g %RPD el Range ((g %RPD 1.59	RPDLimit Organics RPDLimit 24.5	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH greater than 2

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

R RPD outside accepted recovery limits

ND

WO#: 1210D02

01-Nov-12

Client: Blagg Engineering

Project: Marcotte GC #1

print and a second s											
Sample ID	2.5ug gro lcs	SampType: LCS TestCode: EPA Method 8015B Mod: Gasoline Range									
Client ID:	LCSS	Batch	n ID: R6	572	F	RunNo: 6	572				
Prep Date:		Analysis D	ate: 1	0/30/2012	S	SeqNo: 1	90201	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	26	5.0	25.00	0	104	74.6	137			
Surr: BFB		490		500.0		97.5	70	130			
Sample ID	1210D01-001A M	s SampT	ype: MS	6	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	BatchQC	Batch	n ID: R6	572	F	RunNo: 6	572				
Prep Date:		Analysis D	ate: 10	0/30/2012	5	SeqNo: 1	90207	Units: mg/l	Kg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	19	5.0	18.74	0	99.0	50.3	148			
Surr: BFB		340		374.8		90.6	70	130			
Sample ID	1210D01-001A M	SD SampT	уре: М	SD	Tes	tCode: El	PA Method	8015B Mod:	Gasoline	Range	
Client ID:	BatchQC	Batch	n ID: R6	572	F	RunNo: 6	572				
Prep Date:		Analysis D	ate: 10	0/30/2012	S	eqNo: 1	90208	Units: mg/H	٨g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	18	5.0	18.74	0	97.4	50.3	148	1.71	20	
Surr: BFB		340		374.8		91.8	70	130	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Page 4 of 4

WO#: **1210D02** *01-Nov-12*

HALL ENVIRONMENTAL ANALYSIS LABORATORY	lall Environmental A Albuq FEL: 505-345-3975 F Website: www.hallo	nalysis Lo 4901 Ha uerque, N AX: 505- environm	abora wkins 1M 87 345-4 ental.e	lory NE 105 107 com	Samp	le Log-In	Check List
Client Name: BLAGG	Wo	ork Orde	r Num	nber: 1	210D02		
Received by/date:	2012						
Logged By: Ashley Gallegos 10/30	2012 9:50:00 AM			A	7		
Completed By: Ashley Gallegos 10/30	/2012 10-00-13 AM	1		-A	>		
Beviewed Burner A Last	12012 10.00.15 AM			94=	F		
Reviewed By	10/30/11	L					
Chain of Custody	1		-				
1. Were seals intact?		Yes	No)	Not Pres	ent 🗸	
2. Is Chain of Custody complete?		Yes	i No)	Not Pres	ent	
3. How was the sample delivered?		Courier					
Log In							
4. Coolers are present? (see 19. for cooler specific i	nformation)	Yes	No.	o i l		NA	
5. Was an attempt made to cool the samples?		Yes \	No)		NA	
6. Were all samples received at a temperature of >0)° C to 6.0°C	Yes 🕚	No)		NA	
7. Sample(s) in proper container(s)?		Yes	N				
8. Sufficient sample volume for indicated test(s)?		Yes	N				
9. Are samples (except VOA and ONG) properly pre	served?	Yes	/ No				
10. Was preservative added to bottles?		Yes	No			NA	
		Vee	ÌN		No VOA V		
12. Were any sample containers received broken?		Ves	i No		NU VOA V		
13 Does paperwork match bottle labels?		Yes			# 0	preserved	
(Note discrepancies on chain of custody)					for	pH:	
14. Are matrices correctly identified on Chain of Cust	ody?	Yes \	/ No	o i i		(<2 o	r >12 unless noted)
15. Is it clear what analyses were requested?		Yes	No.	c	1	Adjusted?	
16. Were all holding times able to be met?		Yes	/: No	D I I		Chacked by:	
Special Handling (if applicable)						Checked by.	
17 Was client notified of all discremancies with this of	rder?	Yes	N			NA V	
		103	. 140			1.171	
Person Notified:	Date:					LL D	
By Whom:	Via:	eMail		hone	Fax	i In Person	<i>u</i>
Regarding:					la brancas provinsi da manana e va sa s		
Client Instructions:							
18. Additional remarks:							

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.1	Good	Yes			

C	hain-o	of-Cu	stody Record	Turn-Around	Time:	COMPLETE BY				F	-IA	LL	E	NV	/IF	20	NI	ME	INT	A	L	
Client:	BLAG	g engr.	/ BP AMERICA	Standard	Rush _	10/31/12			F	Ā	١N	AL	Y	SIS	S L	A	BO	R/	AT	OR	Y	C.
				Project Name							ww	w.ha	llen	viro	nme	ental	.con	1				
Mailing A	Address:	P.O. BO	X 87	MARCO	TTE GC	77 (49	01 H	awk	cins	NE -	Alt	buqu	erq	ue, N	MM 8	3710	9			
		BLOOM	FIELD, NM 87413	Project #:]	Te	l. 50	5-34	45-3	975	I	Fax	505-	-345	-410	7				
Phone #:		(505) 63	32-1199]								A	nal	ysis	Re	ques	st					
email or	Fax#:			Project Manag	ger:									04)								
QA/QC Pa	ackage: dard	1	Level 4 (Full Validation)	NELSO,	, VELEZ)21B)	(ylno	/Diesel					PO4, S0	CB's							
Accredita	ation:			Sampler:	NELSON V	ELEZ 905	18	(Gas	(Gas)					102,	32 P(mple	
	P	Other	a	On Ice:	∦Ø∕Yes	🗆 No	E	Hd	158	8.1)	14.1)	(H)		3, N	/ 808						e sa	N)
	(Type)			Sample Temp	erature: 3-	1		+ =	1 80	d 41	d 50	or PA	als	I, NC	des		VOA	0.0)			osit	(Y or
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-MTB	BTEX + MTB	TPH Method	TPH (Metho	EDB (Metho	8310 (PNA 0	RCRA 8 Met	Anions (F, C	8081 Pestici	3260B (VOA	8270 (Semi-	Chloride (30		Vn(4	pt. comp	Air Bubbles
10/23/12	1120	SOIL	4PC-5WE 9-10'	4021	COOL	-601	1		V		_			_			~			-		
																		-	$ \rightarrow $	-	v l	_
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		<u> </u>								_												
							ļ															
Date:	Time:	Relinquish	ied by:	Received by:		Date Time	Ren	nark	s:	TPF	4 (8)	015	B) -	GRC	8	DRC	ON	ILY.				
10/12	1310	14	in y	1-houster	encelo	- 12a/12 1310	P	ZEF	JE	56	ENI	0	ini i	101	Æ	T	0	1ª				
Date:	Time:	Relinquish	ied by: (/	Received by:		Date Time			P.C	AG	60	ENE X E	512	REE	<1.~	i S	\sim	-	-			
129/12	1712	1/hr	istre Dalte	100	FRID	30 12 0951	D		BL	001	m.}	FREE	, О,	Nr	n	8.	74	13				

Analytical Report Lab Order 1211430 Date Reported: 11/19/2012

11/13/2012 10:33:49 PM

11/13/2012 10:33:49 PM

11/13/2012 10:33:49 PM

11/13/2012 10:33:49 PM

11/14/2012 9:26:14 AM

Analyst: SRM

1

1

1

1

5

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering	ENT: Blagg Engineering Client Sample ID: 4PC-SW @ 20'									
Project: Marcotte GC #1			Collection I	Date: 11/7/20	012 11:52:00 AM					
Lab ID: 1211430-001	Matrix:	SOIL	Received I	Date: 11/9/20	012 10:00:00 AM					
Analyses	Result	RL Qua	l Units	DF	Date Analyzed					
EPA METHOD 8015B: DIESEL RANGE	ORGANICS				Analyst: JMP					
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	11/13/2012 12:02:53 PM					
Surr: DNOP	107	77.6-140	%REC	1	11/13/2012 12:02:53 PM					
EPA METHOD 8015B: GASOLINE RANG	θE				Analyst: NSB					
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	11/13/2012 10:33:49 PM					
Surr: BFB	102	84-116	%REC	1	11/13/2012 10:33:49 PM					
EPA METHOD 8021B: VOLATILES					Analyst: NSB					
Benzene	ND	0.049	mg/Kg	1	11/13/2012 10:33:49 PM					

ND 0.049 mg/Kg Ethylbenzene ND 0.049 mg/Kg Xylenes, Total ND 0.097 mg/Kg Surr: 4-Bromofluorobenzene 102 80-120 %REC EPA METHOD 300.0: ANIONS ND 7.5 mg/Kg

Qualifiers:

*

Toluene

Chloride

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- Р Sample pH greater than 2
- Reporting Detection Limit RL

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S

WO#: 1211430

19-Nov-12

Client: Project:	Blagg En Marcotte	gineering GC #1									
Sample ID	MB-4817	SampT	уре: МІ	BLK	Tes	tCode: E	PA Method	300.0: Anior	IS		
Client ID:	PBS	Batch	n ID: 48	17	F	RunNo: 6	6905				
Prep Date:	11/14/2012	Analysis D	ate: 1	1/14/2012		SeqNo: 1	99846	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-4817	SampT	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anion	IS		
Client ID:	LCSS	Batch	n ID: 48	17	F	RunNo: 6	6905				
Prep Date:	11/14/2012	Analysis D	ate: 1	1/14/2012	ç	SeqNo: 1	99847	Units: mg/H	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	97.2	90	110			
Sample ID	1211430-001AMS	SampT	уре: М	S	Tes	tCode: E	PA Method	300.0: Anion	IS		
Client ID:	4PC-SW @ 20'	Batch	n ID: 48	17	F	RunNo: 6	905				
Prep Date:	11/14/2012	Analysis D	ate: 1	1/14/2012	S	SeqNo: 1	99849	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		18	7.5	15.00	4.533	91.2	64.4	117			
Sample ID	1211430-001AMSI	D SampT	уре: М	SD	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	4PC-SW @ 20'	Batch	n ID: 48	17	F	RunNo: 6	905				
Prep Date:	11/14/2012	Analysis D	ate: 1	1/14/2012	S	SeqNo: 1	99850	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		17	7.5	15.00	4.533	85.5	64.4	117	4.75	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits J
- Р Sample pH greater than 2

- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit R
 - RPD outside accepted recovery limits

WO#: 1211430

19-Nov-12

Client:	Blagg En	gineering									
Project:	Marcotte	GC #1									
Sample ID	MB-4780	SampTy	pe: MI	BLK	Tes	tCode: El	PA Method	8015B: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis Da	ate: 1	1/13/2012	S	SeqNo: 1	98229	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	ND	10								
Surr: DNOP		8.7		10.00		86.5	77.6	140			
Sample ID	LCS-4780	SampTy	pe: LC	s	Tes	tCode: EF	PA Method	8015B: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 47	80	F	RunNo: 6	844				
Prep Date:	11/12/2012	Analysis Da	ate: 1	1/13/2012	5	SeqNo: 1	98230	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	50	10	50.00	0	99.3	52.6	130			
Surr: DNOP		4.5		5.000		89.3	77.6	140			
Sample ID	1211427-001AMS	SampTy	pe: MS	6	Tes	tCode: EF	PA Method	8015B: Dies	el Range (Organics	
Client ID:	BatchQC	Batch	ID: 47	80	F	RunNo: 68	844				
Prep Date:	11/12/2012	Analysis Da	ite: 1'	1/13/2012	S	SeqNo: 19	98456	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	53	10	50.86	0	104	57.2	146			
Surr: DNOP		4.1		5.086		80.5	77.6	140			
Sample ID	1211427-001AMS	o SampTy	pe: MS	SD.	Tes	tCode: EF	PA Method	8015B: Dies	el Range (Drganics	
Client ID:	BatchQC	Batch	ID: 47	80	R	anNo: 68	344				
Prep Date:	11/12/2012	Analysis Da	te: 11	/13/2012	S	eqNo: 19	98457	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	55	10	51.49	0	106	57.2	146	3.04	24.5	
Surr: DNOP		4.0		5.149		78.5	77.6	140	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

WO#: 1211430

19-Nov-12

Client: Project:	Blagg Engineering Marcotte GC #1	5								
Sample ID MB-477	s Samp	Туре: МІ	BLK	Tes	tCode: El	PA Method	8015B: Gase	oline Rang	e	
Client ID: PBS Batch ID: 4775				F	RunNo: 6	856				
Prep Date: 11/12/2012 Analysis Date: 11/13/2012				S	SeqNo: 1	99194	Units: mg/k	٢g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) ND	5.0								
Surr: BFB	990		1000		99.2	84	116			
Sample ID LCS-477	5 Samp	Type: LC	s	Tes	tCode: El	PA Method	8015B: Gase	oline Rang	e	
Client ID: LCSS	Bate	ch ID: 47	75	F	RunNo: 6	856				
Prep Date: 11/12/2	012 Analysis	Date: 1	1/13/2012	S	SeqNo: 1	99195	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	(GRO) 25	5.0	25.00	0	101	74	117		<u>)</u>	
Surr: BFB	1000		1000		104	84	116			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

Client: Blagg Engineering **Project:** Marcotte GC #1

Sample ID	MB-4775	75 SampType: MBLK TestCode: EPA Method 8021B: Volatiles									
Client ID:	PBS	Batc	h ID: 47	75	F	RunNo: 6	856				
Prep Date:	11/12/2012	Analysis [Date: 1	1/13/2012	S	SeqNo: 1	99258	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	1.1		1.000		106	80	120			
Sample ID	108-4775	Samn		9	Tes	tCode: E	PA Method	8021B: Vola	tilos		
	1000	Bata	h ID: 47	75	103			00210. 0010	lies		
Client ID.	LC35	Dalc	11D. 47	/5	г	CUIINO. O	000				
Prep Date:	11/12/2012	Analysis [Date: 1'	1/13/2012	5	SeqNo: 1	99259	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	104	76.3	117			
Toluene		1.1	0.050	1.000	0	105	80	120			
Ethylbenzene		1.1	0.050	1.000	0	106	77	116			
Xylenes, Total		3.2	0.10	3.000	0	106	76.7	117			
Surr: 4-Brom	nofluorobenzene	1.1		1.000		107	80	120			
Sample ID	1211427-001AMS	Samp	Гуре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Sample ID Client ID:	1211427-001AMS BatchQC	Samp] Batcl	Гуре: М З h ID: 47	S 75	Tes	tCode: El RunNo: 6	PA Method 856	8021B: Volat	tiles		
Sample ID Client ID: Prep Date:	1211427-001AMS BatchQC 11/12/2012	Samp Batc Analysis E	Гуре: МS h ID: 47 Date: 1 1	5 75 1/13/2012	Tes F S	tCode: El RunNo: 6 SeqNo: 1	PA Method 856 99267	8021B: Volat	tiles		
Sample ID Client ID: Prep Date: Analyte	1211427-001AMS BatchQC 11/12/2012	Samp Batc Analysis D Result	Type: MS h ID: 47 Date: 11 PQL	5 75 1/13/2012 SPK value	Tes F SPK Ref Val	tCode: El RunNo: 6 SeqNo: 1 %REC	PA Method 856 99267 LowLimit	8021B: Volat Units: mg/K HighLimit	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene	1211427-001AMS BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0	Fype: MS h ID: 47 Date: 11 PQL 0.049	5 75 1/13/2012 SPK value 0.9766	Tes F S SPK Ref Val 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105	PA Method 856 99267 LowLimit 67.2	8021B: Volat Units: mg/K HighLimit 113	tiles Sg %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1211427-001AMS BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0 1.1	Type: MS h ID: 47 Date: 11 PQL 0.049 0.049	5 75 1/13/2012 SPK value 0.9766 0.9766	Tes F SPK Ref Val 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109	PA Method 856 99267 LowLimit 67.2 62.1	8021B: Volat Units: mg/K HighLimit 113 116	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1211427-001AMS BatchQC 11/12/2012	Samp Batc Analysis E Result 1.0 1.1 1.1	Fype: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049	5 75 1/13/2012 SPK value 0.9766 0.9766 0.9766	Tes F SPK Ref Val 0 0 0 0	tCode: El RunNo: 6 GeqNo: 1 %REC 105 109 112	PA Method 856 99267 LowLimit 67.2 62.1 67.9	8021B: Volat Units: mg/K HighLimit 113 116 127	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1211427-001AMS BatchQC 11/12/2012	Samp Batc Analysis E Result 1.0 1.1 1.1 3.3	Type: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.098	5 75 1/13/2012 SPK value 0.9766 0.9766 0.9766 2.930	Tes F SPK Ref Val 0 0 0 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6	8021B: Volat Units: mg/K HighLimit 113 116 127 134	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr	1211427-001AMS BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0	Type: MS h ID: 47 Date: 11 <u>PQL</u> 0.049 0.049 0.049 0.098	5 75 75 77 77 77 77 77 77 77 77 77 77 77	Tes F SPK Ref Val 0 0 0 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 Samp	Type: MS h ID: 47 Date: 11 0.049 0.049 0.049 0.049 0.098	5 75 775 775 775 775 775 775 775 775 77	Tes F SPK Ref Val 0 0 0 0 0 Tes	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brorr Sample ID Client ID:	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl	Type: MS h ID: 47 Date: 11 Dote: 11 0.049 0.049 0.049 0.098	5 75 775 775 775 775 775	Tes F SPK Ref Val 0 0 0 0 Tes F	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat	tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date:	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis I Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis I	Type: MS h ID: 47 Date: 11 0.049 0.049 0.049 0.049 0.098 Type: MS h ID: 47 Date: 11	5 75 775 775 775 775 775 775	Tes SPK Ref Val 0 0 0 0 0 Tes F	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K	tiles ^{(g} %RPD tiles ^{(g}	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis E Result	Fype: MS h ID: 47 Date: 11 0.049 0.049 0.049 0.098 Fype: MS h ID: 47 Date: 11 PQL	5 75 1/13/2012 SPK value 0.9766 0.9766 2.930 0.9766 2.930 0.9766 5 75 75 75 75 75 75 75 75 75	Tes F SPK Ref Val 0 0 0 0 Tes F SPK Ref Val	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1 %REC	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268 LowLimit	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K HighLimit	tiles (g %RPD tiles (g %RPD	RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis [Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis [Result 1.1	Fype: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.098 Fype: MS h ID: 47 Date: 11 PQL 0.049	5 75 1/13/2012 SPK value 0.9766 0.9766 2.930 0.9766 2.930 0.9766 5 75 75 1/13/2012 SPK value 0.9785	Tes SPK Ref Val 0 0 0 0 Tes SPK Ref Val 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1 %REC 107	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268 LowLimit 67.2	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K HighLimit 113	tiles (g %RPD tiles (g %RPD 2.13	RPDLimit RPDLimit 14.3	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis [Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis [Result 1.1 1.1	Type: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.098 0.098 Type: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049	5 75 1/13/2012 SPK value 0.9766 0.9766 2.930 0.9766 2.930 0.9766 5 75 1/13/2012 SPK value 0.9785 0.9785	Tes SPK Ref Val 0 0 0 0 0 Tes SPK Ref Val 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1 %REC 107 111	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268 LowLimit 67.2 62.1	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K HighLimit 113 116	tiles (g %RPD tiles (g %RPD 2.13 2.43	RPDLimit RPDLimit 14.3 15.9	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis E Result 1.1 1.1 1.1	Type: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.049 0.098 Fype: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.049	5 75 75 75 75 75 75 75 75 75 75 75 75 75	Tes SPK Ref Val 0 0 0 0 0 Tes SPK Ref Val 0 0 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1 %REC 107 111 114	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268 LowLimit 67.2 62.1 67.2 62.1 67.9	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K HighLimit 113 116 127	tiles 59 %RPD tiles 59 %RPD 2.13 2.43 2.46	RPDLimit RPDLimit 14.3 15.9 14.4	Qual
Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brom Sample ID Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	1211427-001AMS BatchQC 11/12/2012 nofluorobenzene 1211427-001AMSE BatchQC 11/12/2012	Samp Batcl Analysis E Result 1.0 1.1 1.1 3.3 1.0 Samp Batcl Analysis E Result 1.1 1.1 1.1 3.3	Type: MS h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 h ID: 47 Date: 11 PQL 0.049 0.049 0.049 0.049 0.049 0.049	5 75 75 75 75 75 75 75 75 75 75 75 75 75	Tes SPK Ref Val 0 0 0 0 0 0 Tes SPK Ref Val 0 0 0 0 0 0 0	tCode: El RunNo: 6 SeqNo: 1 %REC 105 109 112 113 107 tCode: El RunNo: 6 SeqNo: 1 %REC 107 111 114 114	PA Method 856 99267 LowLimit 67.2 62.1 67.9 60.6 80 PA Method 856 99268 LowLimit 67.2 62.1 67.2 62.1 67.9 60.6	8021B: Volat Units: mg/K HighLimit 113 116 127 134 120 8021B: Volat Units: mg/K HighLimit 113 116 127 134	tiles (g %RPD tiles (g %RPD 2.13 2.43 2.46 2.56	RPDLimit RPDLimit 14.3 15.9 14.4 12.6	Qual

Qualifiers:

Value exceeds Maximum Contaminant Level. *

Е Value above quantitation range

- J Analyte detected below quantitation limits
- Р Sample pH greater than 2

- Analyte detected in the associated Method Blank В
- Holding times for preparation or analysis exceeded Η
- ND Not Detected at the Reporting Limit R RPD outside accepted recovery limits

WO#: 1211430

19-Nov-12

ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

W Rosenadoren	and the second party of the local diversity of the	Contraction of the owner owner owner owner own	A REAL PROPERTY OF A REAL PROPER	and the second distance		and the second second	Contraction of the	State of the other state of the state of	and the second se	the second second second second second second
Clie	ent Name:	BLAGG		Work Or	der N	umbei	er: 12	11430		
Rec	ceived by/date	: HG	11/09/12							
Log	ged By:	Anne Thorne	11/9/2012 10:00:00 A	М		6	anne ,	Him		
Con	npleted By:	Anne Thorne	11/12/2012			6	anne	Him		
Rev	iewed By:	TO	11/12/2017							
Cha	in of Cust	ody	/ /							
1.	Were seals i	ntact?		Yes		No		Not Present	\checkmark	
2.	Is Chain of C	ustody complete?		Yes	\checkmark	No		Not Present		
3.	How was the	sample delivered?		<u>Cou</u>	rier					
Log	In									
4.	Coolers are p	present? (see 19. for	cooler specific information)	Yes	V 1	No		NA		
5.	Was an atter	npt made to cool the	e samples?	Yes	V 1	No 🗌		NA		
6.	Were all sam	ples received at a te	emperature of >0° C to 6.0°C	Yes	V 1	No 🗌		NA		
7.	Sample(s) in	proper container(s)	?	Yes		No []				
8.	Sufficient sar	mple volume for indi	cated test(s)?	Yes	V 1	No [
9.	Are samples	(except VOA and O	NG) properly preserved?	Yes		No ·				
10.	Was preserve	ative added to bottle	s?	Yes	1	No 🗸	1	NA		
11.	VOA vials ha	ve zero headspace?	,	Yes		No 🗆	N	o VOA Vials	\checkmark	
12.	Were any sa	mple containers reco	eived broken?	Yes		vo 🗸	/			
13.	Does paperw (Note discrep	ork match bottle lab pancies on chain of o	els? custody)	Yes		No		# of pres bottles of for pH:	erved hecked	
14.	Are matrices	correctly identified of	on Chain of Custody?	Yes	v ì	No 🗌]		(<2	or >12 unless noted)
15.	Is it clear what	at analyses were rec	uested?	Yes	V N	No		Ad	justed?	
16.	Were all hold (If no, notify d	ling times able to be customer for authori	met? zation.)	Yes	V N	10		Che	ecked by:	
Spe	cial Handl	ing (if applicabl	le)							
17.	Was client no	otified of all discrepa	ncies with this order?	Yes		lo 🗸		NA		
	Person	Notified:	Date			A				
	By Who	m:	Via:	eMai		Phon	ne 🗌	Fax 🗌 In	Person	
	Regardi	ng:							a a cha Plante a na bhann Plantenna an	-
	Client Ir	structions:	ana a sagala i aika din ing ka			5 1 m				-
	L									

18. Additional remarks:

19. Cooler Information

Coole	No Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

SAMPLER: N J V

MARCOTTE GC #1 UNIT H, SEC. 5, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date: April 29, 2013

Fil

lename :	04-29-13.\	VK4			F	PROJECT	MANAGER :	Ν	JV
WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	102.17	-	-	28.10	-	-	-	-	-
2	104.63	-	-	29.40	-	-	-	-	-
3	104.19	-	-	30.30	-	-	-	-	-
4	104.33	-	-	29.50	-	-	-	-	-
5	-	-	24.88	32.06	0855	6.64	1,600	13.5	3.50
			INSTRUME	ENT CALIB	RATIONS =	4.01/7.00/10.00	2,800		
				DATE	& TIME =	04/29/13	0700		

NOTES :

Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

3.00 " well diameter = 1.101521 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All monitor wells except MW # 5 consist of 3 inch diameter PVC (screen type, interval unknown).

Purged MW #5 using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.

on-site	8:20	temp	43 F
off-site	9:20	temp	48 F
sky cond.	Sur	nny	
wind speed	0 - 5	direct.	E - SE

Analytical	Report
Lab Order 1	304B62

Date Reported: 5/14/2013

Hall Environmental Analysis Laboratory, Inc. _

CLIENT: Blagg Eng	ineering		C	lient San	ple ID: M	W # 5	
Project: Marcotte C	GC #1			Collectio	n Date: 4/2	29/2013 8:55:00 AM	
Lab ID: 1304B62-0	001 Matrix	AQUEOU	S	Receive	d Date: 4/3	0/2013 9:55:00 AM	
Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8021	3: VOLATILES					Analyst	NSB
Benzene	ND	1.0		µg/L	1	5/2/2013 11:58:29 PM	R10280
Toluene	ND	1.0		µg/L	1	5/2/2013 11:58:29 PM	R10280
Ethylbenzene	ND	1.0		µg/L	1	5/2/2013 11:58:29 PM	R10280
Xylenes, Total	ND	2.0		µg/L	1	5/2/2013 11:58:29 PM	R10280
Surr: 4-Bromofluoro	benzene 101	69.4-129		%REC	1	5/2/2013 11:58:29 PM	R10280
EPA METHOD 300.0	ANIONS					Analyst	JRR
Fluoride	0.58	0.10		mg/L	1	4/30/2013 2:37:32 PM	R10227
Chloride	94	10		mg/L	20	4/30/2013 2:49:56 PM	R10227
Nitrogen, Nitrite (As N) ND	0.10		mg/L	1	4/30/2013 2:37:32 PM	R10227
Nitrogen, Nitrate (As N	l) 2.7	0.10		mg/L	1	4/30/2013 2:37:32 PM	R10227
Sulfate	690	10		mg/L	20	4/30/2013 2:49:56 PM	R10227
EPA METHOD 6010E	3: DISSOLVED METALS					Analyst	JLF
Iron	ND	0.020		mg/L	1	5/7/2013 11:29:01 AM	R10449
SM2540C MOD: TOT	AL DISSOLVED SOLIDS					Analyst	KS
Total Dissolved Solids	1540	20.0	*	mg/L	1	5/3/2013 7:03:00 PM	7257

Qualifiers:

* Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

Р Sample pH greater than 2

RL Reporting Detection Limit

Analyte detected in the associated Method Blank В

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits S

Client:Blagg EngineeringProject:Marcotte GC #1

Sample ID MB	SampT	уре: МВ	BLK	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID: PBW	Batch	n ID: R1	0227	F	RunNo: 1	0227				
Prep Date:	Analysis D	ate: 4/	30/2013	S	SeqNo: 2	91671	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	ND	0.10								
Chloride	ND	0.50								
Nitrogen, Nitrite (As N)	ND	0.10								
Nitrogen, Nitrate (As N)	ND	0.10								
Sulfate	ND	0.50								
Sample ID LCS	SampT	ype: LC	S	Tes	tCode: E	PA Method	300.0: Anion	s		
Client ID: LCSW	Batch	n ID: R1	0227	F	RunNo: 1	0227				
Prep Date:	Analysis D	ate: 4/	30/2013	S	SeqNo: 2	91672	Units: mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.49	0.10	0.5000	0	98.6	90	110			
Chloride	4.7	0.50	5.000	0	94.5	90	110			
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	92.7	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.7	90	110			
Sulfate	9.6	0.50	10.00	0	96.1	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 2 of 5

WO#: 1304B62

14-May-13

Client:Blagg EngineeringProject:Marcotte GC #1

Sample ID 5ML RB	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBW	Batcl	h ID: R1	0280	F	RunNo: 1	0280				
Prep Date:	Analysis E	Date: 5/	2/2013	S	SeqNo: 2	93191	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0					-0			
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	20		20.00		102	69.4	129			
Sample ID 100NG BTEX LCS	Samp1	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	n ID: R1	0280	F	unNo: 1	0280				
Prep Date:	Analysis D	ate: 5/	2/2013	S	eqNo: 2	93192	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	100	80	120			
Toluene	20	1.0	20.00	0	100	80	120			
Ethylbenzene	20	1.0	20.00	0	100	80	120			
Xylenes, Total	61	2.0	60.00	0	101	80	120			
Surr: 4-Bromofluorobenzene	21		20.00		105	69.4	129			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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14-May-13

WO#: 1304B62

14-May-13

Client:Blagg EngineeringProject:Marcotte GC #1

Sample ID	МВ	SampType:	MBLK	Tes	tCode: E	PA Method	6010B: Disso	olved Meta	als	
Client ID:	PBW	Batch ID:	R10449	F	RunNo: 1	0449				
Prep Date:		Analysis Date:	5/7/2013	S	SeqNo: 2	95315	Units: mg/L			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		ND 0.0	20							
Sample ID	LCS	SampType:	LCS	Tes	tCode: E	PA Method	6010B: Disso	lved Meta	als	
Client ID:	LCSW	Batch ID:	R10449	F	RunNo: 1	0449				
Prep Date:		Analysis Date:	5/7/2013	2	SeqNo: 2	95316	Units: mg/L			
Analyte		Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.49 0.0	0.5000	0	98.0	80	120			
Sample ID	LCSD	SampType:	LCSD	Tes	tCode: E	PA Method	6010B: Disso	lved Meta	als	
Client ID:	LCSS02	Batch ID:	R10449	F	RunNo: 1	0449				
Prep Date:		Analysis Date:	5/7/2013	5	SeqNo: 2	95317	Units: mg/L			
Analyte		Result PG	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron		0.47 0.0	20 0.5000	0	94.5	80	120	3.61	20	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Page 4 of 5

WO#: 1304B62

14-May-13

Client: Project:	Bla Ma	agg Engineering arcotte GC #1									
Sample ID	MB-7257	SampT	/pe: ME	BLK	Tes	tCode: SI	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	PBW	Batch	ID: 72	57	F	RunNo: 1	0309				
Prep Date:	5/2/2013	Analysis Da	ate: 5/	3/2013	S	SeqNo: 2	93729	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolve	d Solids	ND	20.0			1					
Sample ID	LCS-7257	SampTy	/pe: LC	S	Tes	tCode: SI	M2540C MC	DD: Total Diss	olved So	lids	
Client ID:	LCSW	Batch	ID: 72	57	F	RunNo: 1	0309				
Prep Date:	5/2/2013	Analysis Da	ate: 5/	3/2013	S	SeqNo: 2	93730	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolve	d Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmen TEL: 505-345-3: Website: www	ttal Analysis 1 4901 H Albuquerque, 975 FAX: 505 hallenvironn	aboratory awkins NE NM 87105 -345-410; aental.con	Sam	ple Log-In C	heck List
Client Name: BLAGG	Work Order Numb	er: 1304B62	2		RcptNo:	1 .
Received by/date:	04/30/12					
ogged By: Lindsay Mangin	4/30/2013 9:55:00 A	NA	. 19	touchig Allertop		
Completed By: Lindsay Mangin	1/30/2013 10:26:53	0.04	V	+ 1:411 ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Reviewed By:	100/2010 10.20.00		0			
hain of Custody						
1. Custody seals intact on sample bottles?		Yes]	No 🗌	Not Present	
2. Is Chain of Custody complete?		Yes 🔽]	No 🗌	Not Present	
3. How was the sample delivered?		Courier				
.og in						
4. Was an attempt made to cool the samples?		Yes 🔽	P	No 🗌	NA	
5. Were all samples received at a temperature of	of >0° C to 6.0°C	Yes 🔽		No 🗌		
6. Sample(s) in proper container(s)?		Yes V	1	No 🗌		
7. Sufficient sample volume for indicated test(s)	?	Yes 🗸		No 🗌		
8. Are samples (except VOA and ONG) properly	preserved?	Yes 🗸		No		
9. Was preservative added to bottles?		Yes		No 🔽	NA 🗌	
0.VOA vials have zero headspace?		Yes 🗸		No 🗌	No VOA Vials	
1. Were any sample containers received broker	l? .	Yes		No 🗹	# of preserved	Λ
2. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗸		No 🗆	bottles checked for pH:	or >12 uniess noted)
3. Are matrices correctly identified on Chain of C	ustody?	Yes 🗸		No 🗌	Adjusted?	100
4. Is it clear what analyses were requested?		Yes 🗸		No 🗌		all.
5. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗸		No 🗌	Checked by:	PAPA
pecial Handling (if applicable)						
6. Was client notified of all discrepancies with th	is order?	Yes		No 🗌	NA 🗹	
Person Notified:	Date:		and the second se	and the second sec		
By Whom:	Via:	eMail	Phone	Fax	In Person	
Regarding:						
Client Instructions:						
7. Additional remarks:						-
9 Cooler Information	24					
Cooler No Temp °C Condition Sea	Intact Seal No	Seal Date	Sign	ed By	r.	
1 2.5 Good Yes		and the second second .	and a straight			
Page 1 of 1						

C	hain-c	of-Cus	tody Record	I urn-Around I	ime:								E	813	/TE	20					
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush								V		2 I 7 I		RO	DA		DV	r
				Project Name:								wh		viro		intal					
Mailing Ad	ddress:	P.O. BO	X 87	м	ARCOTTE G	GC # 1		19	01 -	Jawk	inc				Inne			1			
		BLOOM	FIELD. NM 87413	Project #:				49 Te		12 00	15.2	075	- AII	Fax	ENE	2/15	110	37109			
Phone #		(505) 63	2-1199					10	1. 30	13-3.	+3-3	575	Anal	vsis	Rec	11169	-410				
email or F	ax#:	(000) 00		Project Manag	er:																-
QA/QC Pa	ckage:			,	NELSON	VELEZ	21B)	(5					504							
Standa	ard		Level 4 (Full Validation)				(802	only				1S)		É						e	
Accreditat	tion:			Sampler:	NELSON	VELEZ 10		(Gas	RO /	1)	.1)	OSIN	死し	6	lids	red	z			mpl	
D NELAP	>			On Ice:	Q Yes	□ No	F.	TPH	0/0	418	504	827	s	6	d So	filte	rite			e sa	1
	Гуре)			Sample Tempe	erature: 2	-5	H	3E +	(GRI	pot	por	or	etal	N I	olve) sni	Nit		le	osit	:
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1304/1862	BTEX + MH	BTEX + MTE	TPH 8015B	TPH (Meth	EDB (Meth	PAH (8310	RCRA 8 M	Anions (F,	Total Disso	Iron, Ferro	Nitrate N /		Grab samp	5 pt. comp	
4/29/13	0855	WATER	MW # 5	40 ml VOA - 2	HCI & Cool	-001	V								-				V		T
4/29/13	0855	WATER	MW # 5	500 ml - 1	Cool	1								V	V				V	-	T
4/29/13	0855	WATER	MW # 5	250 ml - 1	HNO ₃ & Cool											V			V		T
4/29/13	B 855	WATER	MW # 5	250 ml - 1	H ₂ SO ₄	1											۷		V		
												_									
Date:	Time:	Relinquishe	ed by:	Received by:	1	Date Time	Ren	nark	s:	BP	Con	tact	t: .	leff	Pea	се					_
1/29/13	937	711	mut	Martine 1	adle	1/29/13 937	Se	end i	nvoi	ce to	:										
Date:	Time:	Relinquishe	ed by:	Received by:	L	Date Time					Bla P.	agg l	Engin ox 87	ieeri	ng, li	nc.					
16113	Incess	v samples s	Upmitted to Hall Environmental may be s	ubcontracted to other	accredited laboratorie	This serves as notice of	this n	occibi	lity A	ny sub	Die	acted	data	, NIV	cloard	15	ad on	the analy	dinal par	art	

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A

MARCOTTE GC #1

LABORATORY (S) USED : HALL ENVIRONMENTAL

2,800

1010

06/20/12

(gal.)

4.50

4.50

4.25

4.00

UNIT H, SEC. 5, T31N, R10W

NJV Date: June 20, 2012 SAMPLER : Filename : 06-20-12.WK4 **PROJECT MANAGER:** NJV WELL WELL WATER DEPTH TO TOTAL SAMPLING CONDUCT TEMP. VOLUME pН # ELEV. DEPTH ELEV. WATER TIME PURGED (umhos) (celcius) (ft) (ft) (ft) (ft) 1 102.17 78.08 24.09 28.10 1120 7.26 1,200 16.3 2 104.63 79.29 25.34 29.40 7.28 1020 1,200 16.2 3 104.19 77.67 26.52 30.30 1215 7.14 1.500 16.2 4 104.33 78.54 25.79 29.50 1315 7.06 1.200 15.7

> 4.01/7.00/10.00 **INSTRUMENT CALIBRATIONS =**

> > DATE & TIME =

Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). NOTES : (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

3.00 " well diameter : 1.101521 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

All monitor wells consist of 3 inch diameter PVC (screen type, interval unknown).

Purged wells using 2 inch submersible electrical pump, new/clear vinyl tubing, and with brass adjustable flow valve attachment added near sampling end of tubing.

Top of casings: MW #10R ~ 3.20 ft., MW #11R ~ 1.80 ft., MW #12R ~ 2.40 ft., MW #13R ~ 2.80 ft. above grade.

on-site	9:39	temp	76 F
off-site	1:35	temp	90 F
sky cond.		Sunny	
wind speed	5 - 15	direct.	SW - W

Analytical Report Lab Order 1206983 Date Reported: 6/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering		0	Client Sam	ple ID: MW #1	
Project: MARCOTTE GC #1			Collection	n Date: 6/20/2012 10:20:00 AM	
Lab ID: 1206983-001	Matrix:	AQUEOUS	Received	d Date: 6/22/2012 10:00:00 AM	
Analyses	Result	RL Qual	Units	DF Date Analyzed	
EPA METHOD 8021B: VOLATILES				Analyst: NSB	\$
Benzene	ND	1.0	µg/L	1 6/27/2012 11:57:07 PM	1
Toluene	ND	1.0	µg/L	1 6/27/2012 11:57:07 PM	1
Ethylbenzene	ND	1.0	µg/L	1 6/27/2012 11:57:07 PM	1
Xylenes, Total	ND	2.0	µg/L	1 6/27/2012 11:57:07 PM	1
Surr: 4-Bromofluorobenzene	80.7	55-140	%REC	1 6/27/2012 11:57:07 PM	1

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

J Analyte detected below quantitation limits

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 1 of 5

Analytical Report Lab Order 1206983 Date Reported: 6/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering		C	lient Sam	ple ID: MW #2
Project: MARCOTTE GC #1			Collection	Date: 6/20/2012 11:20:00 AM
Lab ID: 1206983-002	Matrix:	AQUEOUS	Received	d Date: 6/22/2012 10:00:00 AM
Analyses	Result	RL Qual	Units	DF Date Analyzed
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	1.0	µg/L	1 6/28/2012 12:27:25 AM
Toluene	ND	1.0	µg/L	1 6/28/2012 12:27:25 AM
Ethylbenzene	ND	1.0	µg/L	1 6/28/2012 12:27:25 AM
Xylenes, Total	ND	2.0	µg/L	1 6/28/2012 12:27:25 AM
Surr: 4-Bromofluorobenzene	88.1	55-140	%REC	1 6/28/2012 12:27:25 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL
- Page 2 of 5

Analytical Report

Lab Order 1206983

Date Reported: 6/29/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Blagg Engineering Project: MARCOTTE GC #1			Client Sampl Collection I	e ID: MW #3 Date: 6/20/20	3)12 12:15:00 PM
Lab ID: 1206983-003	Matrix: A	AQUEOUS	Received I	Date: 6/22/20	012 10:00:00 AM
Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	6/28/2012 12:57:51 AM
Toluene	ND	1.0	µg/L	1	6/28/2012 12:57:51 AM
Ethylbenzene	ND	1.0	µg/L	1	6/28/2012 12:57:51 AM
Xylenes, Total	ND	2.0	µg/L	1	6/28/2012 12:57:51 AM
Surr: 4-Bromofluorobenzene	78.1	55-140	%REC	1	6/28/2012 12:57:51 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Page 3 of 5

Analytical Report Lab Order 1206983

Date Reported: 6/29/2012

Hall Environmental Analysis Laboratory, Inc. Date

CLIENT: Diagg Engineering		C	nent Sampto		+
Project: MARCOTTE GC #1			Collection D	ate: 6/20/20	012 1:15:00 PM
Lab ID: 1206983-004	Matrix: A	AQUEOUS	Received D	ate: 6/22/20	012 10:00:00 AM
Analyses	Result	RL Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0	µg/L	1	6/28/2012 1:28:20 AM
Toluene	ND	1.0	µg/L	1	6/28/2012 1:28:20 AM
Ethylbenzene	ND	1.0	µg/L	1	6/28/2012 1:28:20 AM
Xylenes, Total	ND	2.0	µg/L	1	6/28/2012 1:28:20 AM
Surr: 4-Bromofluorobenzene	77.3	55-140	%REC	1	6/28/2012 1:28:20 AM

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

RL Reporting Detection Limit

U Samples with CaleVal < MDL

Page 4 of 5

Client: Blag Project: MA

Blagg Engineering MARCOTTE GC #1

and the second se											
Sample ID: 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles											
Client ID:	PBW	Bato	h ID: R3	739	F	RunNo: 3	739				
Prep Date:		Analysis	Date: 6/	27/2012	5	SeqNo: 1	05696	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	1.0								
Toluene		ND	1.0								
Ethylbenzene		ND	1.0								
Xylenes, Total		ND	2.0								
Surr: 4-Brom	ofluorobenzene	19		20.00		94.8	55	140			
Sample ID:	100NG BTEX LCS	Samp	Type: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID:	LCSW	Bato	h ID: R3	739	F	RunNo: 3	739				
Prep Date:		Analysis	Date: 6/	27/2012		SeqNo: 1	05697	Units: µg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		21	1.0	20.00	0	106	80	120			
Toluene		22	1.0	20.00	0	111	80	120			
Ethylbenzene		22	1.0	20.00	0	111	80	120			
Xylenes, Total		66	2.0	60.00	0	109	80	120			
Surr: 4-Brom	ofluorobenzene	23		20.00		114	55	140			
Sample ID:	1206977-019AMS	Samp	Type: MS	3	Tes	tCode: El	PA Method	8021B: Volat	les		
Client ID:	BatchQC	Bato	h ID: R3	739	F	RunNo: 3	739				
Prep Date:		Applycic		27/2012		Conlos 11	05710	Units: ua/I			
		Allalysis	Date: 6/	2112012		bequito. It	00710	ornito. µg/L			
Analyte		Result	Date: 6/	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte Benzene		Result 21	Date: 6/ PQL 1.0	SPK value 20.00	SPK Ref Val 0.2100	%REC 105	LowLimit 70.1	HighLimit 118	%RPD	RPDLimit	Qual
Analyte Benzene Toluene		Result 21 22	Date: 6/ PQL 1.0 1.0	SPK value 20.00 20.00	SPK Ref Val 0.2100 0	%REC 105 109	LowLimit 70.1 72.3	HighLimit 118 117	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene		Result 21 22 22	Date: 6/ PQL 1.0 1.0 1.0	SPK value 20.00 20.00 20.00	SPK Ref Val 0.2100 0 0.1660	%REC 105 109 110	LowLimit 70.1 72.3 73.5	HighLimit 118 117 117	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total		Result 21 22 22 68	Date: 6/ PQL 1.0 1.0 1.0 2.0	SPK value 20.00 20.00 20.00 60.00	SPK Ref Val 0.2100 0 0.1660 0.4680	%REC 105 109 110 112	LowLimit 70.1 72.3 73.5 73.1	HighLimit 118 117 117 119	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo	ofluorobenzene	Result 21 22 22 68 23	Date: 6/ PQL 1.0 1.0 1.0 2.0	SPK value 20.00 20.00 20.00 60.00 20.00	SPK Ref Val 0.2100 0 0.1660 0.4680	%REC 105 109 110 112 113	LowLimit 70.1 72.3 73.5 73.1 55	HighLimit 118 117 117 119 140	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID:	ofluorobenzene 1206977-019AMSD	Result 21 22 22 68 23 Samp	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS	SPK value 20.00 20.00 20.00 60.00 20.00	SPK Ref Val 0.2100 0.1660 0.4680 Tes	%REC 105 109 110 112 113 tCode: EF	LowLimit 70.1 72.3 73.5 73.1 55 74 Method	HighLimit 118 117 117 119 140 8021B: Volati	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID:	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 Samp Batc	Date: 6/ PQL 1.0 1.0 2.0 Type: MS h ID: R3	SPK value 20.00 20.00 20.00 60.00 20.00 5D 739	SPK Ref Val 0.2100 0.1660 0.4680 Tes	%REC 105 109 110 112 113 tCode: EF	LowLimit 70.1 72.3 73.5 73.1 55 PA Method 739	HighLimit 118 117 117 119 140 8021B: Volati	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID: Prep Date:	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 0 Samp Batc Analysis I	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/	SPK value 20.00 20.00 20.00 60.00 20.00 5D 739 27/2012	SPK Ref Val 0.2100 0.1660 0.4680 Tes F	%REC 105 109 110 112 113 tCode: EF RunNo: 37 SeqNo: 10	LowLimit 70.1 72.3 73.5 73.1 55 74 Method 739	HighLimit 118 117 117 119 140 8021B: Volati Units: µg/L	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Brome Sample ID: Client ID: Prep Date: Analyte	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 Samp Bato Analysis I Result	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/ PQL	SPK value 20.00 20	SPK Ref Val 0.2100 0.1660 0.4680 Tes F SPK Ref Val	%REC 105 109 110 112 113 tCode: EF RunNo: 37 SeqNo: 10 %REC	LowLimit 70.1 72.3 73.5 73.1 55 73.1 55 74 Method 739 05716 LowLimit	HighLimit 118 117 117 119 140 8021B: Volati Units: µg/L HighLimit	%RPD	RPDLimit	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID: Prep Date: Analyte Benzene	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 0 Samp Bato Analysis I Result 20	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/ PQL 1.0	SPK value 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	SPK Ref Val 0.2100 0.1660 0.4680 Tes F SPK Ref Val 0.2100	%REC 105 109 110 112 113 tCode: EF RunNo: 33 SeqNo: 10 %REC 101	LowLimit 70.1 72.3 73.5 73.1 55 73.1 55 73.4 739 05716 LowLimit 70.1	HighLimit 118 117 117 119 140 8021B: Volati Units: µg/L HighLimit 118	%RPD les %RPD 4.22	RPDLimit RPDLimit 16.4	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID: Prep Date: Analyte Benzene Toluene	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 0 Samp Bato Analysis I Result 20 21	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/ PQL 1.0 1.0	SPK value 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	SPK Ref Val 0.2100 0.1660 0.4680 Tes F SPK Ref Val 0.2100 0	%REC 105 109 110 112 113 tCode: EF RunNo: 37 SeqNo: 10 %REC 101 104	LowLimit 70.1 72.3 73.5 73.1 55 73.1 55 74 Method 739 05716 LowLimit 70.1 72.3	HighLimit 118 117 117 119 140 8021B: Volati Units: µg/L HighLimit 118 117	%RPD les %RPD 4.22 5.08	RPDLimit RPDLimit 16.4 13.9	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 0 Samp Bato Analysis I Result 20 21 21	Date: 6/ PQL 1.0 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/ PQL 1.0 1.0 1.0 1.0	SPK value 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00	SPK Ref Val 0.2100 0.1660 0.4680 Tes F SPK Ref Val 0.2100 0 0.1660	%REC 105 109 110 112 113 tCode: EF RunNo: 37 SeqNo: 10 %REC 101 104 104	LowLimit 70.1 72.3 73.5 73.1 55 73.1 55 73.4 55 73.4 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.1 55 73.5 73.5 73.5 73.5 73.5 73.5 73.5 7	HighLimit 118 117 117 119 140 8021B: Volati Units: µg/L HighLimit 118 117 117	%RPD les %RPD 4.22 5.08 5.32	RPDLimit RPDLimit 16.4 13.9 13.5	Qual
Analyte Benzene Toluene Ethylbenzene Xylenes, Total Surr: 4-Bromo Sample ID: Client ID: Prep Date: Analyte Benzene Toluene Ethylbenzene Xylenes, Total	ofluorobenzene 1206977-019AMSD BatchQC	Result 21 22 22 68 23 0 Samp Batc Analysis I Result 20 21 21 65	Date: 6/ PQL 1.0 1.0 2.0 Type: MS h ID: R3 Date: 6/ PQL 1.0 1.0 1.0 2.0	SPK value 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 20.00 60.00	SPK Ref Val 0.2100 0.1660 0.4680 Tes F SPK Ref Val 0.2100 0 0.1660 0.4680	%REC 105 109 110 112 113 tCode: EF RunNo: 37 SeqNo: 10 %REC 101 104 104 104 107	LowLimit 70.1 72.3 73.5 73.1 55 73.1 55 73.4 73.9 73.9 05716 LowLimit 70.1 72.3 73.5 73.1	HighLimit 118 117 117 119 140 8021B: Volati 0nits: µg/L HighLimit 118 117 117 119	%RPD les %RPD 4.22 5.08 5.32 5.00	RPDLimit RPDLimit 16.4 13.9 13.5 12.9	Qual

Qualifiers:

*/X Value exceeds Maximum Contaminant Level.

E Value above quantitation range

- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

Page 5 of 5

1206983 29-Jun-12

WO#:

to 5 of 5

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Clie	nt Name:	BLAGG		Work Order Num	ber: 1	206983	
Rec	eived by/date	.					
Log	ged By:	Anne Thorne	6/22/2012 10:00:00 A	M	ame	Shim	
Con	npleted By:	Anne Thorne	6/22/2012		1	N	
Rev	iewed By:	to allo	16		anne	Arm	
Cha	in of Cust	tody					
1	Were seals i	intact?		Ves No		Not Present V	
2	Is Chain of C	Custody complete?		Ves V No		Not Present	
2.	How was the	sample delivered?		Courier			
0.	now was are			oouner			
Log	In						
4.	Coolers are	present? (see 19. fo	or cooler specific information)	Yes ✔ No		NA 🗔	
5.	Was an atter	mpt made to cool th	e samples?	Yes 🗹 No		NA	
6.	Were all sam	nples received at a t	temperature of >0° C to 6.0°C	Yes 🗹 No		NA 🗌	
7.	Sample(s) in	proper container(s))?	Yes 🖌 No			
8.	Sufficient sa	mple volume for ind	icated test(s)?	Yes 🗹 No			
9.	Are samples	(except VOA and C	ONG) properly preserved?	Yes 🗹 No			
10.	Was preserv	ative added to bottle	es?	Yes 🗌 No	\checkmark	NA	
11.	VOA vials ha	ave zero headspace	?	Yes 🗹 No		No VOA Viais	
12.	Were any sa	mple containers rec	ceived broken?	Yes 🗌 No	\checkmark		
13.	Does paperw (Note discrep	vork match bottle lal pancies on chain of	bels? custody)	Yes 🗹 No		# of preserved bottles checked for pH:	
14.	Are matrices	correctly identified	on Chain of Custody?	Yes 🖌 No		(<2 or >12 unless note	d)
15.	Is it clear wh	at analyses were re	quested?	Yes 🗹 No		Adjusted?	
16.	Were all hold	ding times able to be	e met?	Yes 🗹 No			
C	ciel Hered					Checked by:	
Spe	<u>ciai Handi</u>	ing (ir applicad	<u>ne)</u>				
17.	vvas client n	otified of all discrepa	ancies with this order?	Yes L No			
	Person	Notified:	Date				
	By Who	om:	Via:	eMail P	hone [Fax In Person	
	Regard	ing:					
	Client Ir	nstructions:					

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

C	hain-o	of-Cus	tody Record	I um-Arouna I	ime:						AL				/T E	20	D.F.		-	-		
Client:	BLAG	G ENGR.	/ BP AMERICA	Standard	Rush				F				Y	ST	S I	A	30	R	AT		2	,
3			······································	Project Name:						-	ww	w.ha	allen	viro	nme	ntal	con	n				
Mailing Ad	ddress:	P.O. BO	K 87	M	ARCOTTE G	iC # 1		49	01 -	lawk	ins	NE -	All	nuan	ierai	ie. N	JM 8	3710	9			
		BLOOM	FIELD, NM 87413	Project #:			1	Te	el. 50)5-34	45-3	975	/ 116	Fax	505	-345	-410	17				
Phone #:		(505) 63	2-1199	1								ļ	Anal	ysis	Red	lues	t					
email or F	ax#:			Project Manag	er:									(4)								
QA/QC Pad Standa	ckage: ard		Level 4 (Full Validation)		NELSON VI	ELEZ	0218)	only)	/Diesel)					PO4, SC	CB's						a	
Accreditat	ion:			Sampler:	NELSON VI	LEZ MV		(Gas	(Gas					V02,	82 P						Idma	
		C Other		On Ice:	XYes			HdT	158	18.1	04.1	AH)		03, 1	/ 80		F				te se	- AIL
	Гуре)	1		Sample Tempe	erature:	<u>·U</u>		BE +	od 80	od 4	od 5	or P	tals	CI, N	cides	(A)	OV-I	00.00		ple	posi	N
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX +-tott	BTEX + MT	TPH Metho	rPH (Meth	EDB (Meth	8310 (PNA	RCRA 8 Me	Anions (F, (3081 Pestic	3260B (VO	3270 (Semi	Chloride (3		Grab sam	5 pt. com	Air D. hhln
6/20/12	1020	WATER	MW # 1	40 ml VOA - 2	Cool	-001	٧													V		
																						Γ
6/20/12	1120	WATER	MW # 2	40 ml VOA - 2	Cool	-002	V													٧		
C /20 /42	4245	MATER	NAV6/ 44 O		Gent	~ 3	-/												$\left - \right $	- 1		L
6/20/12	1215	WATER	IAI AA # 2	40 ml VOA - 2	COOL	-007	V			_				_						V		-
6/20/12	1315	WATER	MW # 4	40 ml VOA - 2	Cool	-2004	٧													٧		
																			$\left \right $	_		
Data	771	Dellasuisk		Deschued hur									L									
5/21/12 Date:	Time:	Relinquishe	ad by:	Received by:	Walter	Date Time 6/ ./21/12 723	Rer Se	nark nd i	s: voic	e to	: Bla	igg E	ngine	eerin	ıg, İn	с.						
1/21/12	1700	M	sthe Walter :		DIOE	22/12 100X			14. 5		P.C Blo	D. Bo bomf	x 87 ield,	NM	8741	3						

Analytical Report
Lab Order 1505688
Date Reported: 5/26/2015

CLIENT:	Blagg Engineering		(lient Sam	ple ID: 95	LPT Produced Water	
Project:	Marcotte GC 1			Collection	Date: 5/1	4/2015 10:11:00 AM	
Lab ID:	1505688-001	Matrix:	AQUEOUS	Received	Date: 5/1	5/2015 7:26:00 AM	
Analyses		Result	RL Qual	Units	DF	Date Analyzed	Batch
EPA MET	HOD 300.0: ANIONS					Analys	st: LGT
Sulfate		ND	2.5	mg/L	5	5/19/2015 7:25:42 PM	R26305
SM2540C	MOD: TOTAL DISSOLVE	DSOLIDS				Analys	st: KS
Total Dis	solved Solids	ND	100	mg/L	1	5/22/2015 3:16:00 PM	19337

Hall Environmental Analysis Laboratory, Inc.

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Metho	od Blank
	E	Value above quantitation range	Н	Holding times for preparation or analysis	s exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 of 3
	0	RSD is greater than RSDlimit	Р	Sample pH Not In Range	1 age 1 01 5
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Client:	Blagg Engineering
Project:	Marcotte GC 1

Sample ID MB	SampType: MBLK	TestCode: EPA Method	300.0: Anions		
Client ID: PBW	Batch ID: R26305	RunNo: 26305			
Prep Date:	Analysis Date: 5/19/2015	SeqNo: 781436	Units: mg/L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RP	PD RPDLimit	Qual
Sulfate	ND 0.50				
Sample ID LCS	SampType: LCS	TestCode: EPA Method	300.0: Anions		
Client ID: LCSW	Batch ID: R26305	RunNo: 26305			
Prep Date:	Analysis Date: 5/19/2015	SeqNo: 781437	Units: mg/L		
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RP	PD RPDLimit	Qual
Sulfate	9.8 0.50 10.00	0 98.2 90	110		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

WO#: 1505688

26-May-15

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WO#: 1505688

26-May-15

Client:	Bla	gg Engineering									
Project:	Ma	rcotte GC 1									
Sample ID	MB-19337	SampTyp	e: MI	BLK	Tes	tCode: S	M2540C MC	DD: Total Diss	olved So	lids	
Client ID:	PBW	Batch I	D: 19	337	F	RunNo: 2	6371				
Prep Date:	5/21/2015	Analysis Dat	e: 5/	22/2015	S	SeqNo: 7	83732	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	d Solids	ND	20.0								
Sample ID	LCS-19337	SampTyp	e: LC	s	Tes	tCode: SI	M2540C MC	D: Total Diss	olved So	lids	
Client ID:	LCSW	Batch II	D: 19	337	F	RunNo: 2	6371				
Prep Date:	5/21/2015	Analysis Dat	e: 5/	22/2015	S	SeqNo: 7	83733	Units: mg/L			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Total Dissolved	Solids	1010	20.0	1000	0	101	80	120			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

Page 3 of 3

HALL ENVIRONMENTAL ANALYSIS LABORATORY	Hall Environmental Albu Albu TEL: 505-345-3975 Website: www.hal	Analysis Lat 4901 Haw querque, NN FAX: 505-34 lenvironmer	kins NE 4 87109 Sam 45-4107 Mal.com	ole Log-In Check List					
Client Name: BLAGG	Work Order Number:	1505688	100	RcptNo: 1					
Received by/date: AT	05/15/15		** *						
Logged By: Lindsay Mangin	5/15/2015 7:26:00 AM		Junky Hongo						
Completed By: Lindsay Mangin	5/15/2015 8:20:59 AM		June Hope						
Reviewed By:	slislis								
Chain of Custody	11/11/		er mananda a ser e e	di a terrativene	and the second second				
1. Custody seals intact on sample bottles?		Yes	No	Not Present					
2. Is Chain of Custody complete?		Yes 🖈	No 🗌	Not Present					
3. How was the sample delivered?		Courier							
Log In									
4 Was an attempt made to cool the sample	2	Vaa	No	NA					
T. Was an altempt made to cool the sample	57	res 📼							
5. Were all samples received at a temperatu	re of >0° C to 6.0°C	Yes 🛃	No 🗌	NA					
6. Sample(s) in proper container(s)?		Yes 🖈	No 🗌						
7 Sufficient sample volume for indicated test	t(s)?	Yes	No						
8 Are samples (except VOA and ONG) prop	erly preserved?	Yes	No 🗌						
9. Was preservative added to bottles?	ony proceeder	Yes	No 🖈	NA					
10.VOA vials have zero headspace?		Yes	No	No VOA Vials					
11. Were any sample containers received bro	ken?	Yes	No 🛃	# of preserved					
12.Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🖈	No 🗌	for pH: (<2 or >	12 unless noted)				
13. Are matrices correctly identified on Chain	of Custody?	Yes 🖝	No	Adjusted?					
14. Is it clear what analyses were requested?		Yes 🛃	No 🗌						
15. Were all holding times able to be met?		Yes 🖈	No 🗌	Checked by:					
(If no, notify customer for authorization.)				10 - E 26 E 2 2 2 2 2					

Special Handling (if applicable)

16.1	Was client notified of all di	screpancies w	with this order?		Yes	No	N	Α
	Person Notified:	- DO AND		Date	:[Constant and the second second second		
	By Whom:		2 10714 (76.7.67.87.87.86.98.98.98.98.99.99.99.97.97.97.97.97.97.97.97.97.97.	Via:	eMail	Phone 🗌 Fax	In Person	
	Regarding:					a an		
	Client Instructions:	Siddle Address amounts of mygg	ETT THE A SUBMIT END AND AN ADVECTOR	an and give an an an a she had		fallen an fall an annen annen an	Son An index of Mile of Model and An Additional States Index on an	0.0040-3F
17.	Additional remarks:					1 1000 ADMA		
18.	Cooler Information							
	Cooler No Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By		

Page 1 of 1

1

1.2

Good

Yes

С	Chain-of-Custody Record			Turn-Around	Time:																
lient:	BP	Americ	10	X Standard	🗆 Rush									N V			20				~
	Rin	1.10110		Project Name	:					-											T
Aailing	Address	Dn	P- 07	MARCE	OTTE GO	c 1		400	24.11	-	wwv	v.nai	Ienv	Ironi	nen	tal.co		400			
	Tra	F.U.	BOX OT	Project #:			1	490		ажкі			AID	uque	erqu	e, N	M 87	109			
hone	<u>6000</u>	Thera	770 1107					Ie	91. 50	5-34	15-3	975 A	nal	ax	SU5-	-345	410	(
amail or	Fay#	202-	520-1185	Project Mana				<u>()</u>	6				inen,		Neg	ues			1950255		
	Package.			TR	>		121)	on	MR(_		SO.	3's	ļ					
Stan	dard		Level 4 (Full Validation)	2-5	24466		s (80	Gas	0			IMS		Se l	PCI						
Accredi	tation	······································		Sampler: J	BLAGE	7	MB's	PH	/ DR	=	=	70 S			082						-
	NELAP Other EDD (Type)			On Ice:	Yes	D No	+	+	RO	118.	504.	r 82	G	D	s / 8		(Y)				or N
	(Type)	<u> </u>		Sample Temp	perature:	12	LBE	LBE	C	od 4	po 5	0 0	etals	R.	cide	(A)	-VC				1 S
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO 1505/388	BTEX + M1	BTEX + MI	TPH 8015E	TPH (Meth	EDB (Meth	PAH's (831	RCRA 8 M	Anions (E	8081 Pesti	8260B (VO	8270 (Sem	TD5			Air Bubbles
114/15	1011	Water	95 LPT Water	Z×250	COOL	-001								×				×			
			Tronocear ostart																		
								_	-										-+	-	
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Date:	Time:	Relinguishe	ed by:	Received by:		Date Time	Ren	narke	. 2		RF										
3/14/2015	1049	All	Bogy	Chanta	Water	5/14/2015 1049		TCI IN	Co	inte	rct		eff	Pe	ace						
Date:	ate: Time: Relinguished by:			Received by.) J	Date Time 05/15/15			Pa	yk	ey:	21	EVI	101	I RE	EMA	Ð				
1.113	1/15/1848 1/ Mistulialters			1 Un	min	- 0726	I														

1. It is the Way 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.

AMOCO

MARCOTTE GC 1 MONITOR WELL LABORATORY RESULTS

BLAGG ENGINEERING, INC.

REVISED DATE: NOVEMBER 19, 1996 (LABSUM2.WK3) NJV

									BTEX EPA	A METHOD 8	020 (PPB)	
WELL NAME/#	U-S-T-R	SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS COND. mg/L umhos	pH PRODUCT (in)	Benzene	Toluene	Ethyl Benzene	Total Xylene	TOTAL BTEX

MARCOTTE GC 1	H053110	07-Jul-93	MW #1	24.38		800	7.0	0.7	ND	ND	0.4	1
11	n	11-Mar-94		27.80	28.00	1200	6.9	ND	ND	ND	1	1
n	11	07-Jul-93	MW #2	25.22		600	7.0	ND	ND	ND	ND	ND
ii ii		11-Mar-94		DRY	29.40							
		07-Jul-93	MW #3	26.74		800	7.0	ND	ND	ND	ND	ND
п	**	11-Mar-94		DRY	30.30							
H	ii	07-Jul-93	MW #4	25.52		500	7.0	ND	ND	ND	ND	ND
*	ii	11-Mar-94		DRY	29.50			and a second loss - second loss - second loss				
**	9	DISCONTINU	E MONITO	RING - S	AMPLES NE	VER EXCE	EDED NN	WQCC STANDA	RDS			



District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 220 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.	Form Revised March 12 *Surface Waste Management Facility Ope and Generator shall maintain and mak documentation available for Division inspe-
	Santa Fe, NM 87505	alameter verheiden sich einen seinen verschlichten einen seinen einen seinen verschlichten seinen seinen seinen
REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE		
1. Generator Name and Address:	P.	0,4300001030
BP AMERICA 200 ENERG	TY COURT FARMINGTON NEW I	MEXICO 87401
2. Originating Site: Marcotle 661	Work Of	y Key 11-121400
3. Location of Material (Street Address, C UL_NR_SECTION_S	City, State or ULSTR): TOWNSHIP3/NRANGE //_(2-/	11-3-12-12021950 11-2-121950 12-700011-1-17 700
4. Source and Description of Waste: Hedro carbon	impacted 50%	12 1954 10-31-12800
Bestimated Volume <u>600</u> yd ³ /bbis R GENERATOR <u>Dennis Decken</u> , represent Generator Signature and Phone# certify that according to the Resource Conserv regulatory determination, the above described	Thown Volume (to be entered by the operator at CERTIFICATION STATEMENT OF WA ative or authorized agent for BP AMERICA 505 - 31 ation and Recovery Act (RCRA) and the US Br waste is: (Check the appropriate classification)	the end of the haul) 50 (yd/ bbls STE STATUS do hereby wironmental Protection Agency's July 1988
RCRA Exempt: Oil field wastes gene exempt waste <u>Operator Use Only:</u> W	rated from oil and gas exploration and production and production of the second se	on operations and are not might with non- Weekly [7] Par (w)
CRCRA Non-Exempt: Oil field waste we characteristics established in RCRA regula subpart D, as amended. The following doo the appropriate items)	which is non-hazardous that does not exceed the ations, 40 CFR 251.21-251.24, or listed hazardo cumentation is attached to demonstrate the above	e minimum standards ft o szardous by ous waste as defined in 4 ort 261, ve-described waste is not T is. (Check
MSDS Information RCRA Hazardous GENERATOR 19.15.36.15 WAS Representative/Agent Signature representative samples of the oil field waste have have been found to conform to the specific requi of the representative samples are attached to det 19.15.36 NMAC.	s Waste Analysis Process Knowledge D THE TESTING CERTIFICATION STATEME tive for DECTOR we been subjected to the paint filter test and tests threments applicable to landfarms pursuant to Se monstrate the above-described waste conform to	Dother (Provide descriptie ENT POR LANDRARMS do hereby certify ed for chloride costent and the ples ection 15 of 19.15.35 NMAC.
5. Transporter: Pog <		
OCD Darmitted Surface Wasta Magazant L	Pacility	
Name and Facility Permit #: IFI Landfarm	Jo Industrial Boosystems, Inc. / NM 01-0016	DB
Address of Facility: 49 CR 3150 Aztec, NR	1 87410	M-2/1
Method of Treatment and/or Disposal:		Ph-7
Byaporation Dinjection	🗌 Treating Plant 🕺 Landfarm 🗌 Lan	dall C Other
Moste Acceptance Status:	PROVED	ust Be Maintained As Permanent Record)
Surface Waster Management Facility Aut	TITLE: Administrative Orfic	er DATE/0-30-12