3R - 380

ANNUAL MONITORING REPORT

02/04/2008

BLAGG ENGINEERING, INC.

3R 380

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903RECEIVED

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February 1, 2007

Mr. Glenn von Gonten, Senior Hydrologist New Mexico Oil Conservation Division-NMOCD Environmental Bureau 1220 St. Francis Drive Santa Fe, New Mexico 87505

RE: REQUEST FOR PERMANENT CLOSURE BP America Production Company Groundwater Monitoring Report Gallegos Canyon Unit (GCU) # 214, Unit B, Sec. 16, T28N, R12W, NMPM San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-380-0

Dear Mr. von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the GCU # 214.

The last BEI correspondence concerning the above reference well site was a supplemental groundwater report with letter dated, February 15, 2006. Since then, BP has followed its NMOCD approved groundwater management plan and is requesting permanent closure at this time.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted: *Blagg Engineering, Inc.*

Alen Val

Nelson J. Velez Staff Geologist

Attachment: Groundwater Report (2 copies)

cc: Mr. Brandon Powell, Environmental Specialist, NMOCD District III Office, Aztec, NM Mr. Larry Schlotterback, Environmental Coordinator, BP, Farmington, NM (without lab report)

NJV/njv



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BP AMERICA PRODUCTION CO. FEB 4 PM 12 57

SUPPLEMENTAL GROUNDWATER REMEDIATION REPORT

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2006-2007

GCU #214 (B) SECTION 16, T28N, R12W, NMPM SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR: NEW MEXICO OIL CONSERVATION DIVISION 1220 ST. FRANCIS DRIVE SANTA FE, NEW MEXICO 87504

FEBRUARY 2008

PREPARED BY: BLAGG ENGINEERING, INC.

Consulting Petroleum / Reclamation Services P.O. Box 87 Bloomfield, New Mexico 87413

BP America Production Co. GCU # 214 - Separator Pit Nw/4 Ne/4 Sec. 16, T28N, R12W

6/29/06, 10/30/06, 1/24/07, 4/25/07, 5/8/07

<u>Monitor Well Installation Dates:</u> 4/20/01 (MW #3R & #4), 6/22/01 (MW #2R)

Site Historic Summary:

Monitor Well Sampling Dates:

A site separator pit was closed out beginning in July, 1994 by removing impacted soils by excavation. Documentation for this work and subsequent groundwater monitoring data for the site have previously been submitted for New Mexico Oil Conservation review. The reporting herein is for site monitoring from June, 2006 to May, 2007.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (*Figure 1*) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed into new laboratory supplied 40 ml glass vials with teflon septa caps. The samples were preserved cool and with either mercuric chloride or hydrochloric acid and express delivered to a qualified laboratory for testing. Analytical procedures included benzene, toluene, ethyl-benzene and total xylenes (**BTEX**) per US EPA Method 8020 or 8021.

Waste generated during monitor well sampling and development was disposed of utilizing the separator tank pit located on the well site.

Water Quality and Gradient Information:

Based on the enclosed site monitor well information, groundwater flow has been determined to be in the northeast direction toward MW #3. Groundwater gradient maps are displayed on *Figures 2 through Figure 5*. Prior to June, 2006, monitor well MW #2R was the only sampling point reporting BTEX levels in excess of New Mexico Water Quality Control Commission (NMWQCC) standards for closure. As of April, 2007, MW #2R has achieved four (4) consecutive sampling events below NMWQCC standards. In May, 2007, organic matter within MW #3R had been removed utilizing an air compressor and poly tubing. Afterwards, the well had been developed and sampled. Testing had revealed BTEX at non-detectable levels for all constituents.

Summary and/or Recommendations:

Natural attenuation appears to have successfully reduced the remaining hydrocarbon impacts and no further remedial actions is indicated. All site wells meet NMWQCC standards for groundwater. Permanent site closure is recommended. Following approval by the NMOCD, site monitor wells will be abandoned pursuant to the approved BP Ground Water Management Plan.

BP AMERICA GROUNDWATER MONITOR WELL LABORATORY RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

GCU #214 - SEPARATOR PIT UNIT B, SEC. 16, T28N, R12W

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REVISED DATE: May 23, 2007

FILENAME: (214-2Q07.WK4) NJV

							Ţ.	BTE	X EPA MET	HOD 8021B ((ppb)
SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	pН	PRODUCT	Benzene	Toluene	Ethyl	Total
DATE	WELL #	(ft)	(ft)	mg/L	(umhos/cm)		(ft)			Benzene	Xylene
		-,	1								
10-Jul-95	MW#1	17.53	20.00		4,800	7.4		0.3	43.7	0.64	4.03
07-Sep-95		17.27			4,000	7.8		ND	ND	ND	ND
06-Dec-95		17.96			3,200	7.5		ND	ND	ND	ND
18-Mar-96		18.10			2,000	7.9		ND	ND	ND	ND
04-Jun-96		17.95			3,000	7.4		ND	ND	ND	ND
10-Jul-95	MW#2	16.96	20.00		4,400	8.0		873	76.3	345	1,924
07-Sep-95		16.56			4,200	8.2		226	9.7	91.6	546.6
06-Dec-95		17.60			5,500	8.0		421	3.97	30.1	100
18-Mar-96		17.62			3,300	7.7		115	ND	ND	ND
04-Jun-96		17.34			4,600	7.2		175	ND	ND	7.06
25-Jun-97		16.65			3,000	8.2		164	0.6	59	35.1
08-Jun-98		16.96			3,300	7.2		236	7.6	17.4	67.9
28-May-99		16.87			3,500	7.2		221	10.6	11.1	22.6
22-May-00		16.63			3,100	7.9		79	ND	7.6	5
26-Jun-01	MW#2R	18.13	22.00		2,900	8.36		100	1	65	191
31-May-02		18.30			3,700	8.21		22	ND	1.8	1.8
29-May-03		19.97			2,600	8.05		15	0.99	1.8	5.3
23-Jun-04		18.21			3,300	7.74		16	ND	2.4	3.3
23-Jun-05		18.14			3,400	7.43		26	1.0	1.9	3.3
29-Jun-06		18.20			3,400	7.75		ND	ND	ND	ND
30-Oct-06		18.47			3,300	7.34		1.5	ND	ND	ND
24-Jan-07		18.38			3,400	7.45		2.7	ND	ND	ND
25-Apr-07		18.18			3,200	7.45		2.3	ND	ND	ND
10-Jul-95	MW#3	12.20	15.00		5,500	7.4		0.36	22.8	0.44	1.76
07-Sep-95		11.55			6,000	7.8		1.6	1.1	ND	1.8
06-Dec-95		12.60			5,700	7.6	-	ND	ND	ND	ND
18-Mar-96		12.80			3,400	7.4		ND	ND	ND	ND
04-Jun-96		12.38			4,500	7.2		ND	ND	ND	ND
26-Jun-01	MW#3R	15.00	17.50		2,900	7.80]	ND	ND	ND	ND
08-May-07		14.90		-	4,100	7.33		ND	ND	ND	ND
		NMV	VQCC G	ROUND	WATER S	TANDA	RDS	10	750	750	620

NOTES: 1) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.

2) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PROCEEDING RESULTS EXCEEDED.











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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

LABORATORY (S) USED : HALL ENVIRONMENTAL

GCU #214 - SEPARATOR PIT UNIT B, SEC. 16, T28N, R12W

Date : June 29, 2006

Filename : 06-29-06.WK4

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SAMPLER: NJV PROJEC

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СТ	MANAGER :	N	JV
	CONDUCT	TEMP	

WELL	WELL FLFV	WATER	DEPTH TO WATER	TOTAL	SAMPLING TIME	рН	CONDUCT	TEMP.	
	(ft)	(ft)	(ft)	(ft)			(()	(gal.)
1	101.85	84.16	17.69	-	-	_	-	-	-
2R	101.71	83.51	18.20	22.00	0800	7.75	3,400	16.5	1.00
3R	97.77		DRY	17.50	-	_	-	-	-
4	102.12	83.11	19.01	20.00	-	-	-	-	-
			INSTRUM	ENT CALIB	RATIONS =	7.00	2,800		
					E				

DATE & TIME = 06/26/06 0630

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:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW #2R. Bailed to total depth, then allowed recovery prior to collecting BTEX sample from MW # 2R only. MW # 3R contained a woody, stringy, plantilike substance @ approx. 14.50 ft., therefore unable to collect water depth information.

Hall Envir	ronmental Analys	is Labora	atory, In	c. Da	te: 17-Ju	17-Jul-06				
CLIENT:	Blagg Engineering			Client Sample 1	D: MW	#2R				
Lab Order:	0606377			Collection Da	te: 6/29/2	2006 8:00:00 AM				
Project:	GCU #214			Date Receiv	ed: 6/30/2	2006				
Lab ID:	0606377-01			Matr	ix: AQU	EOUS				
Analyses		Result	PQL	Qual Units	DF	Date Analyzed				
EPA METHOD	8021B: VOLATILES					Analyst: NSB				
Benzene		ND	1.0	µg/L	1	7/12/2006 10:59:54 AM				
Toluene		ND	1.0	µg/L	1	7/12/2006 10:59:54 AM				
Ethylbenzene		ND	1.0	µg/L	1	7/12/2006 10:59:54 AM				
Xylenes, Total		ND	3.0	µg/L	1	7/12/2006 10:59:54 AM				
Surr: 4-Brom	ofluorobenzene	94.5	72.2-125	%REC	1	7/12/2006 10:59:54 AM				

- J Analyte detected below quantitation limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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「「「「「」」」」、「「「」」」、「「」」」、「「」」、「」」、「」」、「」」	Accreditation Applied: NELAC USACE D Other:	Project Name:	600 #317	Project #:	ľ K	Project Manager:	2	Sampler: NVV	Sample Temperature:	Preservative	HEAL NO. HEAL NO. HEAL NO.	2-40 m/ 1 doce 3711								Received By: (Signardine) (530-06	Received By: (Signature)
	CHAIN-OF-CUSTODY RECORD	Client: REASC. ENS. B. AMERICA		Address: P.D. SUX 87	BUFD. NM 87413			Phone #: 632 - 1199	Fax #:	Deta Trans		5/23/06 08 0 WATER MW # 2K								Date: Ime: Relinquished By: (Bignatupe)	Daté: Time: Relinquished By: (Signature)

QA/QC SUMMARY REPORT

Client:Blagg EngirProject:GCU #214	neering						Work	Order: 0606377
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RPI	DLimit Qual
Method: SW8021								
Sample ID: 5ML RB		MBLK			Batch I	D: R19846	Analysis Date:	7/10/2006 8:44:37 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	μg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	μg/L	3.0					
Sample ID: 5ML RB		MBLK			Batch I	D: R19868	Analysis Date:	7/11/2006 8:11:30 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	µg/L	3.0					
Sample ID: 5ML RB		MBLK			Batch I	D: R19886	Analysis Date:	7/12/2006 9:03:10 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	μg/L	3.0					
Sample ID: 100NG BTEX LCS		LCS			Batch I	D: R19846	Analysis Date:	7/10/2006 1:14:32 PM
Benzene	19.16	µg/L	1.0	95.8	85	115		
Toluene	18.37	μα/L	1.0	90.3	85	118		
Ethylbenzene	19.10	ua/L	1.0	95.5	85	116		
Xvlenes. Total	59.24	ua/L	3.0	96.2	85	119		
Sample ID: 100NG BTEX LCS		LCS			Batch I	D: R19868	Analysis Date:	7/11/2006 7:20:12 PM
Benzene	18 97	ua/l	10	94.8	85	115	-	
Toluene	17.83	uo/l	1.0	89.1	85	118		
Ethylbenzene	18 23	μα/l	1.0	91.1	85	116		
Xylenes Total	56 77	μα/l	3.0	93.1	85	119		
Sample ID: 100NG LCS	00.77	LCS	0.0	00.7	Batch I	D: R19886	Analysis Date:	7/12/2006 8:56:18 PM
Benzene	18.48	uo/l	10	924	85	115		
	17.90	µg/⊑ µg/l	1.0	89.5	85	119		
Ethylbenzene	18 70	μg/L	1.0	93.5	85	116		
Xylenes Total	57.67	µg/L	3.0	95.0	85	110		
Sample ID: 100NG BTEX LCSD	57.07	LCSD	0.0	50.0	Batch I	D: R19846	Analysis Date:	7/10/2006 6·40·10 PM
Benzene	19 17	ua/l	10	95.9	85	115	0.0730 2	7
Toluene	17.96	р <u>д</u> /L	1.0	88.2	85	113	2 27 10	
Ethylbenzene	18.63	µg/⊑	1.0	93.2	85	116	2.27 1:	<i>*</i>
Xylenes Total	59.62	ug/L	3.0	96.8	85	119	0.643 11	2
Sample ID: 100NG BTEX LCSD	00.02	LCSD	5.0		Batch I	D: R19868	Analysis Date	, 7/11/2006 7·49·12 PM
Benzene	19 72	ua/1	10	98.6	85	115	3.88 2-	7
Toluene	19.09	н у с ug/l	1.0	95.4	85	118	6.84 40	,
Ethylbenzene	19.91	ма/I	1.0	99.6	85	116	8.83 40	, ,
Xvlenes Total	61.88	ua/1	3.0	102	85	119	8.61 1	, a
Ayrones, Iolai	01.00	P9'L	5.0	102	00	119	0.01 13	0

Qualifiers:

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E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

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Spike Recovery outside accepted recovery limits 2/3

Page 1

Client Name BLAGG			Date and Time	Received:		6/30/200
Work Order Number 0606377			Received by	AT		0,00,200
	(
Checklist completed by them the			le[=	30/06		
Signature	I	Date				
Matrix Ca	irrier name <u>Gre</u>	yhound				
Shipping container/cooler in good condition?	Yes		No 🗌	Not Present		
Custody seals intact on shipping container/cooler?	Yes		No 🗍	Not Present	Not Shipp	ed 🗌
Custody seals intact on sample bottles?	Yes		No 🗹	N/A [
Chain of custody present?	Yes		No 🗌			
Chain of custody signed when relinquished and received?	Yes		No 🗌			
Chain of custody agrees with sample labels?	Yes		No 🗌			
Samples in proper container/bottle?	Yes		No 🗌			
Sample containers intact?	Yes		No 🗌			
Sufficient sample volume for indicated test?	Yes	. 🗹	No 🗌			
All samples received within holding time?	Yes	, v	No 🗌			
Water - VOA vials have zero headspace? No VO	A vials submitted		Yes 🗹	No 🗌		
Water - pH acceptable upon receipt?	Yes	s 🗌	No 🗔	N/A 🗹		
Container/Temp Blank temperature?		6°	4° C ± 2 Accepta If given sufficient	ble time to cool.		
COMMENTS:						
Client contacted Date cor	ntacted:		Pers	on contacted	<u></u>	
Contacted by: Regardir	ng					
Comments:						
Corrective Action						

Hall Environmental Analysis Laboratory, Inc.

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K.

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. N/A CHAIN-OF-CUSTODY # : GCU # 214 - SEPARATOR PIT LABORATORY (S) USED : HALL ENVIRONMENTAL UNIT B, SEC. 16, T28N, R12W Date : October 30, 2006 SAMPLER : NJV Filename : 10-30-06.WK4 **PROJECT MANAGER:** NJV WELL DEPTH TO TOTAL SAMPLING pН CONDUCT WELL WATER TEMP. VOLUME # DEPTH TIME ELEV. ELEV. WATER (umhos) (celcius) PURGED (ft) (ft) (ft) (ft) (gal.) 1 101.85 83.86 17.99 --_ ~ -2R 101.71 83.24 18.47 22.00 1455 7.34 3,300 1.00 20.4 3R 97.77 DRY 17.50 ---~ -4 102.12 82.98 19.14 20.00 -_ -~ -7.00 2,800 INSTRUMENT CALIBRATIONS = 10/27/06 0845 DATE & TIME = 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:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW # 2R. Bailed to total depth, then allowed recovery prior to collecting BTEX sample from MW # 2R only.

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Hall Envir	ronmental Analys	is Labora	atory, Inc.	Dat	e: 03-No	ov-06
CLIENT:	Blagg Engineering		· · · · · · · · · · · · · · · · · · ·	Client Sample II	D: MW	#2R
Lab Order:	0611005			Collection Dat	e: 10/30	/2006 2:55:00 PM
Project:	GCU #214			Date Receive	d: 1 1/1/2	2006
Lab ID:	0611005-01			Matri	x: AQU	EOUS
Analyses		Result	PQL Q	ual Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES					Analyst: NSE
Benzene		1.5	1.0	µg/L	1	11/2/2006 9:46:38 PM
Toluene		ND	1.0	µg/L	1	11/2/2006 9:46:38 PM
Ethylbenzene		ND	1.0	µg/L	1	11/2/2006 9:46:38 PM
Xylenes, Total		ND	3.0	µg/L	1	11/2/2006 9:46:38 PM
Surr: 4-Brom	iofluorobenzene	90.2	72.2-125	%REC	1	11/2/2006 9:46:38 PM



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Analyte detected in the associated Method Blank

MCL Maximum Contaminant Level

RL Reporting Limit

Holding times for preparation or analysis exceeded

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CALCULAR CONTRACT	HALL EN NALYS 901 Hawki	lbuquerque el. 505.34 ww.hallenv	VALYSIE			()	A9 no v tals	8310 (PN)							
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Ą				(<i>հ</i> յւ	10 eniloai Diesel)	86) H91 20) H91 20) H91	903 P . + 38	BTEX + Metho BTEX + M		 					irks:
S. S				(8051 8	e'amt	+ 381	BTEX) - M	\geq						
	QA / QC Package: Std 🔲 Level 4 🔲 Other:	Project Name: GCU # 2/4	Project #:	20	Project Manager:	Sampler: NV	Sample Temperature:	Number/Volume Preservative HEAL No. H9Cl ₂ HNO ₃ OC 11 005	2-40m/ / /mah-2						Received By: (Signature) [1-1-00 Received By: (Signature)
and the second	CHAIN-OF-CUSTODY RECORD	Client: BLAGG ENGR. BI AMERICA	Address: P.O. BOX 87	BLFD. NM 87413		Phone #: 632-1199	Fax #:	Date Time Matrix Sample I.D. No.	10/20/06 1455 WATER MW # 2R						Date: Time: Relinquished By (Signature)

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QA/QC SUMMARY REPORT

Client:Blagg EnginProject:GCU #214	eering						Wo	ork (Drder: 0611005
Analyte	Result	Units	PQL	%Rec	LowLimit HighLi	imit	%RPD I	RPD	Limit Qual
Method: SW8021									
Sample ID: 5ML RB		MBLK			Batch ID: R2	21272	Analysis Date	9:	11/2/2006 8:24:59 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		LCS			Batch ID: R2	21272	Analysis Date	e:	11/2/2006 5:13:35 PM
Benzene	18.71	µg/L	1.0	93.6	85 115				
Toluene	18.92	µg/L	1.0	94.6	85 118				
Ethylbenzene	18.78	µg/L	1.0	91.3	85 116				
Xylenes, Total	37.98	µg/L	3.0	91.3	85 119				
Sample ID: 100NG BTEX LCSD		LCSD			Batch ID: R2	21272	Analysis Date	e:	11/2/2006 5:43:34 PM
Benzene	18.94	µg/L	1.0	94.7	85 115		1.18	27	
Toluene	19.35	µg/L	1.0	96.7	85 118		2.23	19	
Ethylbenzene	19.05	µg/L	1.0	92.6	85 116		1.45	10	
Xylenes, Total	39.18	µg/L	3.0	94.3	85 119		3.11	13	

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
 - Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

2/3

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Page 1

	nple Receipt (Checklist			
lient Name BLAGG		Date and Time	e Received:		11/1/20(
Vork Order Number 0611005		Received by	/ GLS		
Thecklist completed by Signature	Da	11-1-06 le			
latrix Carrier na	ame <u>Greyhound</u>	<u>t</u>			
hipping container/cooler in good condition?	Yes 🗹	No 🗌	Not Present		
Sustody seals intact on shipping container/cooler?	Yes 🔽	No 🗌	Not Present		Not Shipped
Sustody seals intact on sample bottles?	Yes	No 🗌	N/A	\checkmark	
hain of custody present?	Yes 🔽	No 🗌			
hain of custody signed when relinquished and received?	Yes 🗹	No			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
amples in proper container/bottle?	Yes 🔽	No 🗌			
ample containers intact?	Yes 🗹	No 🗌			
ufficient sample volume for indicated test?	Yes 🔽	No 🗌			
Il samples received within holding time?	Yes 🔽	No 🗌			
Vater - VOA vials have zero headspace? No VOA vials	submitted	Yes 🔽	No 🗌		
Vater - pH acceptable upon receipt?	Yes	No 🗌	N/A 🔽		
Container/Temp Blank temperature?	3°	4° C ± 2 Accept If given sufficier	able ht time to cool.		
COMMENTS:					
		· · ·			
Client contacted Date contacted:		Per	son contacted		
Contacted by: Regarding		•••••			· · · · · · - · · · · · · · · · · · · ·
Comments:		· · ····	· · · · ·	* *	
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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A

LABORATORY (S) USED : HALL ENVIRONMENTAL

SAMPLER :

NJV

GCU # 214 - SEPARATOR PIT UNIT B, SEC. 16, T28N, R12W

Date : January 24, 2007

Filename · 01-24-07 WKA

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01-24-07.V	VK4			I	PROJECT	MANAGER :	NJV		
WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)	
101.85	83.88	17.97	-	-	-	-	-	-	
101.71	83.33	18.38	22.00	1345	7.45	3,400	14.6	1.25	
97.77		DRY	17.50	-	-	-	-	-	
102.12	82.93	19.19	20.00	-	-	-	-	-	
		INSTRUM	ENT CALIE	RATIONS =	7.00	2,800			
			DATE	E & TIME =	01/22/07	1115			
	01-24-07.V WELL ELEV. (ft) 101.85 101.71 97.77 102.12	01-24-07.WK4 WELL WATER ELEV. ELEV. (ft) (ft) 101.85 83.88 101.71 83.33 97.77 102.12	01-24-07.WK4 WELL WATER DEPTH TO ELEV. ELEV. WATER (ft) (ft) (ft) 101.85 83.88 17.97 101.71 83.33 18.38 97.77 DRY 102.12 82.93 19.19 INSTRUME	01-24-07.WK4 WELL WATER DEPTH TO TOTAL ELEV. ELEV. WATER DEPTH (ft) (ft) (ft) (ft) 101.85 83.88 17.97 - 101.71 83.33 18.38 22.00 97.77 DRY 17.50 102.12 82.93 19.19 20.00 INSTRUMENT CALIE	01-24-07.WK4 WATER DEPTH TO TOTAL SAMPLING ELEV. ELEV. WATER DEPTH TIME (ft) (ft) (ft) (ft) TIME 101.85 83.88 17.97 - - 101.71 83.33 18.38 22.00 1345 97.77 DRY 17.50 - 102.12 82.93 19.19 20.00 - INSTRUMENT CALIBRATIONS = DATE & TIME =	01-24-07.WK4 PROJECT WELL WATER DEPTH TO TOTAL SAMPLING pH ELEV. ELEV. WATER DEPTH (ft) TIME pH (ft) (ft) (ft) (ft) DEPTH TIME pH 101.85 83.88 17.97 - - - 101.71 83.33 18.38 22.00 1345 7.45 97.77 DRY 17.50 - - 102.12 82.93 19.19 20.00 - - INSTRUMENT CALIBRATIONS = 7.00 DATE & TIME = 01/22/07	01-24-07.WK4 PROJECT MANAGER: WELL WATER ELEV. DEPTH TO (ft) TOTAL DEPTH (ft) SAMPLING DEPTH (ft) pH CONDUCT (umhos) 101.85 83.88 17.97 - - - - 101.71 83.33 18.38 22.00 1345 7.45 3,400 97.77 DRY 17.50 - - - 102.12 82.93 19.19 20.00 - - - INSTRUMENT CALIBRATIONS = 7.00 2,800 01/22/07 1115 01/22/07 1115	01-24-07.WK4 PROJECT MANAGER : N WELL WATER DEPTH TO TOTAL SAMPLING pH CONDUCT TEMP. ELEV. ELEV. (ft) (ft) DEPTH TIME pH CONDUCT TEMP. 101.85 83.88 17.97 - - - - 101.71 83.33 18.38 22.00 1345 7.45 3,400 14.6 97.77 DRY 17.50 - - - - 102.12 82.93 19.19 20.00 - - - - INSTRUMENT CALIBRATIONS = 7.00 2,800 01/22/07 1115 01/22/07 1115 -	

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:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Poor / fair recovery in MW # 2R. Bailed to total depth, then allowed recovery prior to collecting BTEX sample from MW #2R only.

			· · ·			
CLIENT:	Blagg Engineering			Client Sample I	D: MW#	2R
Lab Order:	0701312			Collection Da	te: 1/24/2	2007 1:45:00 PM
Project:	GCU #214			Date Receive	ed: 1/26/2	2007
Lab ID:	0701312-01			Matr	ix: AQU	EOUS
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES					Analyst: LMM
Benzene		2.7	1.0	µg/L	1	1/26/2007 11:50:17 PM
Toluene		ND	1.0	µg/L	1	1/26/2007 11:50:17 PM
Ethylbenzene		ND	1.0	µg/L	1	1/26/2007 11:50:17 PM
Xylenes, Total		ND	3.0	µg/L	1	1/26/2007 11:50:17 PM
Surr: 4-Brom	ofluorobenzene	88.6	70.2-105	%REC	1	1/26/2007 11:50:17 PM

Hall Environmental Analysis Laboratory, Inc.

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Date: 29-Jan-07

Qualifiers: * Value exceeds Maximum Contaminant Level В Е Value above quantitation range Н J Analyte detected below quantitation limits MCL Maximum Contaminant Level ND Not Detected at the Reporting Limit RL Reporting Limit

S Spike recovery outside accepted recovery limits

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

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	ther:	ct Name	ct #:		ct Mana	ler:	le Tempe	ulu/Volu	חכו / גמוחו	40m												Hecel
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QA/QC SUMMARY REPORT

Sec. E.	Client:	Blagg Engineering
	Project:	GCU #214

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Project: GCU #	214						Work	Order: 0701312
Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RP	DLimit Qual
Method: SW8021		•						
Sample ID: 5ML RB		MBLK			Batch ID	D: R22287	Analysis Date:	1/26/2007 10:39:39 AM
Benzene	ND	µg/L	1.0					
Toluene	ND	µg/L	1.0					
Ethylbenzene	ND	µg/L	1.0					
Xylenes, Total	ND	µg/L	3.0					
Sample ID: 100NG BTEX L	.CS	LCS			Batch ID): R22287	Analysis Date:	1/26/2007 12:10:12 PM
Benzene	17.99	µg/L	1.0	90.0	85.9	113		
Toluene	18.70	µg/L	1.0	93.5	86.4	113		
Ethylbenzene	18.92	µg/L	1.0	94.6	83.5	118		
Xylenes, Total	56.87	µg/L	3.0	94.8	83.4	122		

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits 2/3

Hall Environmental Analysis Laboratory	/, Inc.				
	Sample Receipt Ch	necklist			
Client Name BLAGG		Date and Time	Received:	1/2	26/2007
Work Order Number 0701312		Received by	TLS		
	Date	1-26.07]		
Matrix Car	rier name <u>Greyhound</u>				
Shipping container/cooler in good condition?	Yes 🔽	No 🗌	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🔽	No 🗌	Not Present	Not Shipped	
Custody seals intact on sample bottles?	Yes	No 🗌	N/A		
Chain of custody present?	Yes 🔽	No 🗌			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗹	No 🗆			

Yes 🗹

Yes 🗹

Yes 🗹

Yes 🗌

Yes

3°

No VOA vials submitted

No 🗌

No 🗌

No 🗌

Yes 🗹

No 🗔

No 🗌

4° C ± 2 Acceptable

If given sufficient time to cool.

No 🗌

N/A 🗹

N/A 🗹

COMMENTS:

Sample containers intact?

Sufficient sample volume for indicated test?

All samples received within holding time?

Water - VOA vials have zero headspace?

Water - pH acceptable upon receipt?

Container/Temp Blank temperature?

Water - Preservation labels on bottle and cap match?

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BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N/A

GCU # 214 - SEPARATOR PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

SAMPLER :

PROJECT MANAGER :

NJV

NJV

UNIT B, SEC. 16, T28N, R12W

Date : April 25, 2007

Filename : 04-25-07.WK4

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WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	рН	CONDUCT	TEMP.	VOLUME
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	(celcius)	PURGED
	(ft)	(ft)	(ft)	(ft)					(gal.)
1	101.85	84.11	17.74	-	-	-	-	-	-
2R	101.71	83.53	18.18	22.00	1300	7.45	3,200	20.2	1.25
3R	97.77		DRY	17.50	-	-	-	-	-
4	102.12	83.15	18.97	20.00	-	-	-	-	-
			INSTRUM	ENT CALIE	RATIONS =	7.00	2,800		
				DATE	E & TIME =	04/25/07	0855		

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:

2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Poor / fair recovery in MW #2R. Bailed to total depth, then allowed recovery prior to collecting BTEX sample from MW #2R only. _____

	•					
CLIENT:	Blagg Engineering			Client Sample	ID: MW#	#2R
Lab Order:	0704416			Collection E	Date: 4/25/2	2007 1:00:00 PM
Project:	GCU #214			Date Recei	ved: 4/26/2	2007
Lab ID:	0704416-01			Ma	trix: AQU	EOUS
Analyses	- Martin M	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES		· · · · · · · · · · · · · · · · · · ·			Analyst: NSB
Methyl tert-buty	/I ether (MTBE)	ND	2.5	µg/L	1	4/28/2007 12:05:37 PM
Benzene		2.3	1.0	µg/L	1	4/28/2007 12:05:37 PM
Toluene		ND	1.0	µg/L	1	4/28/2007 12:05:37 PM
Ethylbenzene		ND	1.0	µg/L	1	4/28/2007 12:05:37 PM
Xylenes, Total		ND	2.0	µg/L	1	4/28/2007 12:05:37 PM
1,2,4-Trimethyl	lbenzene	1.8	1.0	µg/L	1	4/28/2007 12:05:37 PM
1,3,5-Trimethyl	lbenzene	ND	1.0	µg/L	1	4/28/2007 12:05:37 PM
Surr: 4-Brom	ofluorobenzene	87.3	70.2-105	%REC	1	4/28/2007 12:05:37 PM

Hall Environmental Analysis Laboratory, Inc.

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Date: 30-Apr-07

Qualifiers: * Value exceeds Maximum Contaminant Level В Analyte detected in the associated Method Blank Value above quantitation range Н Holding times for preparation or analysis exceeded Е J Analyte detected below quantitation limits MCL Maximum Contaminant Level ND Not Detected at the Reporting Limit RL Reporting Limit Page 1 of 1 S Spike recovery outside accepted recovery limits 1/3

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	AIN-0	Burt	SS:	Bit		:#:		E	07 130	 				 	Time:	-
(Laws ? a.	CH	Client:	Addre			Phone	Fax #	Dat	4/22/2						Date: <u>Hzs/c</u> Date:	

QA/QC SUMMARY REPORT

Client:	Blagg Engineering
Project:	GCU #214

10.00

Work Order: 0704416

調査を	Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD RI	PDLimit Qual
	Method: SW8021					Detek	ID. 000000		
	Sample ID: 5ML REAGENT BLA		MBLK			Batch	ID: R23390	Analysis Date:	4/27/2007 8:31:58 AM
	Methyl tert-butyl ether (MTBE)	ND	µg/L	2.5					
199	Benzene	ND	µg/L	1.0					
	Toluene	ND	µg/L	1.0					
3	Ethylbenzene	ND	µg/L	1.0					
	Xylenes, Total	ND	μg/L	2.0					
1	1,2,4-Trimethylbenzene	ND	µg/L	1.0					
	1,3,5-Trimethylbenzene	NÐ	µg/L	1.0					
	Sample ID: 100NG BTEX LCS		LCS			Batch	ID: R23390	Analysis Date:	4/28/2007 10:05:11 AM
	Methyl tert-butyl ether (MTBE)	19.34	µg/L	2.5	96.7	51.2	138		
16	Benzene	19.11	µg/L	1.0	95.6	85.9	113		
	Toluene	19.66	µg/L	1.0	98.3	86.4	113		
9 273	Ethylbenzene	19.70	µg/L	1.0	98.5	83.5	118		
	Xylenes, Total	58.72	µg/L	2.0	97.9	83.4	122		
т <mark>ю</mark> ,	1,2,4-Trimethylbenzene	18.03	µg/L	1.0	90.1	83.5	115		
	1,3,5-Trimethylbenzene	18.05	µg/L	1.0	90.3	85.2	113		
<u>Ř</u>	Sample ID: 100NG BTEX LCSD		LCSD			Batch	ID: R23390	Analysis Date:	4/28/2007 10:35:06 AM
調や	Methyl tert-butyl ether (MTBE)	18.85	µg/L	2.5	94.2	51.2	138	2.58	28
	Benzene	18.42	µg/L	1.0	92.1	85.9	113	3.67	27
	Toluene	18.85	µg/L	1.0	94.3	86.4	113	4.18	19
and a	Ethylbenzene	19.01	µg/L	1.0	95.0	83.5	118	3.55	10
-	Xylenes, Total	56.20	µg/L	2.0	93.7	83.4	122	4.38	13
6 3)	1,2,4-Trimethylbenzene	17.47	µg/L	1.0	87.4	83.5	115	3.13	21
	1,3,5-Trimethylbenzene	17.46	µg/L	1.0	87.3	85.2	113	3.35	10

Qualifiers:

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E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded

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ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits 2/3

Hall Environmental Analy	sis Laboratory, Inc
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	Sample Receipt Cl	necklist	
Client Name BLAGG		Date and Time Received:	4/26/2007
Work Order Number 0704416	â	Received by TLS	
Checklist completed by	eppe 4-	26.07	
Matrix	Carrier name UPS		
Shipping container/cooler in good condition?	Yes 🔽	No 🗋 Not Present 🗌]
Custody seals intact on shipping container/cooler?	Yes 🗹	No Not Present	Not Shipped
Custody seals intact on sample bottles?	Yes	No 🗌 N/A 🗹]
Chain of custody present?	Yes 🔽		
Chain of custody signed when relinquished and rec	ceived? Yes 🗹	No	
Chain of custody agrees with sample labels?	Yes 🔽	No	
Samples in proper container/bottle?	Yes 🔽		
Sample containers intact?	Yes 🗹	No 🗀	
Sufficient sample volume for indicated test?	Yes 🔽	No 🗔	
All samples received within holding time?	Yes 🗹	No	
Water - VOA vials have zero headspace?	No VOA vials submitted	Yes 🗹 No 🗌	
Water - Preservation labels on bottle and cap mate	ch? Yes	No 🗌 N/A 🗹	
Water - pH acceptable upon receipt?	Yes	No 🗌 N/A 🗹	
Container/Temp Blank temperature?	7°	4° C ± 2 Acceptable	
COMMENTS:		If given sufficient time to cool.	
			······································
Client contacted D	Date contacted:	Person contacted	
Contacted by: R	Regarding		
Comments:			
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Corrective Action			

BLAGG ENGINEERING, INC. MONITOR WELL DEVELOPMENT &/ OR SAMPLING DATA

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Date	May 8,	2007					SAMPLER :	: NJV : NJV			
Filename	05-08-07.V	VK4			I	PROJECT	MANAGER :				
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGEE (gal.)		
1	101.85		-	_	-	_	_	-	-		
2R	101.71		-	22.00	-		-	-	_		
3R	97.77	82.87	14.90	17.50	0900	7.33	4,100	15.5	1.25		
							1				
4	102.12		-	20.00	-	-	-		-		
4 NOTES :	102.12 <u>Volume of</u> (i.e. 2" MW Ideally a m	water_purge r = (1/12) inimum_of	- INSTRUMI ed from well ft. h = 1 ft.) three (3) we	20.00 ENT CALIE DATI prior to s (i.e. 4" MW	- BRATIONS = E & TIME = sampling; V = r = (2/12) ft imes:	- 7.00 05/08/07 pi <u>X r2 X f</u> . h = 1 ft.)	- 2,800 0740	- ft <u>3) X 3 (we</u> l	lbores).		
4 NOTES :	102.12 <u>Volume of</u> (i.e. 2" MW Ideally a m	water_purge r = (1/12) t inimum_of 2.00 "_well	- INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0	20.00 ENT CALIE DATI prior to s (i.e. 4" MW Ilbore volu 0.49 gallor	- BRATIONS = E & TIME = Sampling; V = V r = (2/12) ft Imes: Ins per foot o	- 7.00 05/08/07 pi <u>X r2 X r</u> . h = 1 ft.) of water.	- 2,800 0740	- ft3) X 3 (we	Ibores).		
4 NOTES :	102.12 Volume of (i.e. 2" MVV Ideally a m Comments	water_purge r = (1/12) inimum_of 2.00 " well or_note_we rerv_in_MW	INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter if # 3R _ Collec	20.00 ENT CALIE DATI prior to s (i.e. 4" MW Ilbore volu 0.49 gallor f not stand	BRATIONS = E & TIME = campling: V = r = (2/12) ft mes: ns per foot of dard 2 ". the for BTEX	- 7.00 05/08/07 - pi <u>X r2 X h</u> . h = 1 ft.) of water.	- 2,800 0740 n X 7.48 gal./	- ft <u>3) X 3 (we</u> l	lbores).		
4 NOTES :	102.12 Volume of (i.e. 2" MW Ideally a m Comments Good recov	water_purg r = (1/12) inimum of 2.00 " well or_note_we rery in MW	INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter if # 3R . Collec	20.00 ENT CALIE DATI prior to s (i.e. 4" MW Ilbore volu 0.49 gallor f not stand cted sampl	- BRATIONS = E & TIME = C r = (2/12) ft Imes: Ins per foot of chard 2 ". The for BTEX	- 7.00 05/08/07 pi <u>X r2 X h</u> . h = 1 ft.) of water.	- 2,800 0740 n X 7.48 gal./	- f <u>t3) X 3 (we</u> l	- Ibores).		
4 NOTES :	102.12 Volume of (i.e. 2" MW Ideally a m Comments Good recov	water_purge r = (1/12) inimum of 2.00 " well or_note_we rery in MW	INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter_it # 3R . Collec	20.00 ENT CALIE DATI prior to s (i.e. 4" MW Ilbore volu 0.49 gallor f not stand cted sampl	- BRATIONS = E & TIME = Campling; V = V r = (2/12) ft Imes: ns per foot of dard 2 ". The for BTEX a	- 7.00 05/08/07 <u>pi X r2 X ł</u> . h = 1 ft.) of water.	- 2,800 0740 n X 7.48 gal./	- ft3) X 3 (we	lbores).		
4 NOTES :	102.12 Volume of (i.e. 2" MW Ideally a m Comments Good recov	water_purge r = (1/12) t inimum of 2.00 " well or_note_we rery in MW	- INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter if # 3R . Collec	20.00 ENT CALIE DATI prior to s (i.e. 4" MW libore volu 0.49 gallor f not stand cted sampl	- BRATIONS = E & TIME = sampling; V = <i>t</i> r = (2/12) ft imes: ns per foot of dard 2 ". le for BTEX a	- 7.00 05/08/07 pi <u>X r2 X h</u> . h = 1 ft.) of water.	- 2,800 0740 n X 7.48 gal./	- ft3) X 3 (we	lbores).		
4 NOTES :	102.12 Volume of (i.e. 2" MVV Ideally a m Comments Good recov	water_purge r = (1/12) f inimum of 2.00 " well or note we very in MW	INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter if # 3R . Collec	20.00 ENT CALIE DATI 	- BRATIONS = E & TIME = Campling: V = V r = (2/12) ft Imes: ns per foot of dard 2 ". The for BTEX and the second s	- 7.00 05/08/07 pi <u>X r2 X r</u> . h = 1 ft.) of water.	- 2,800 0740	- ft <u>3) X 3 (we</u> l	Ibores).		
4 NOTES :	102.12 Volume of (i.e. 2" MW Ideally a m Comments Good recov	water_purge r = (1/12) inimum of 2.00 " well or_note_we rery in MW	INSTRUMI ed from well ft. h = 1 ft.) three (3) we diameter = 0 Il diameter if # 3R . Collec	20.00 ENT CALIE DATI prior to s (i.e. 4" MW Ilbore volu 0.49 gallor f not stand cted sampl	- BRATIONS = E & TIME = Campling; V = V r = (2/12) ft Imes: ns per foot of dard 2 ". The for BTEX is	- 7.00 05/08/07 <u>pi X r2 X ł</u> . h = 1 ft.) of water.	- 2,800 0740	- ft3) X 3 (we	lbores).		

CLIENT:	Blagg Engineering			MW #3R				
Lab Order:	0705145			Collection Date:	5/8/2007 9:00:00 AM 5/10/2007			
Project:	GCU #214			Date Received:				
Lab ID:	0705145-01			Matrix:	AQUI	EOUS		
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed		
EPA METHOD	8021B: VOLATILES			·······		Analyst: NSI		
Benzene		ND	1.0	µg/L	1	5/11/2007 4:10:04 PM		
Toluene		ND	1.0	µg/L	1	5/11/2007 4:10:04 PM		
Ethylbenzene		ND	1.0	µg/L	1	5/11/2007 4:10:04 PM		
Xylenes, Total		ND	2.0	µg/L	1	5/11/2007 4:10:04 PM		

Hall Environmental Analysis Laboratory, Inc.

Date: 22-May-07

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- RL Reporting Limit

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QA/QC SUMMARY REPORT

言語	Client:Blagg EngineProject:GCU #214	eering						v	Work O	rder:	0705145
	Analyte	Result	Units	PQL	%Rec	LowLimit H	ighLimit	%RPD	RPDL	imit Qu	al
	Method: SW8021										
	Sample ID: 5ML REAGENT BLA		MBLK			Batch ID:	R23571	Analysis E	Date:	5/11/2007	' 8:12:17 AM
19 19	Benzene	ND	µg/L	1.0							
	Toluene	ND	hð\r	1.0							
C195.	Ethylbenzene	ND	µg/L	1.0							
	Xylenes, Total	ND	µg/L	2.0							



E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits Н Holding times for preparation or analysis exceeded

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ND Not Detected at the Reporting Limit

Spike recovery outside accepted recovery limits

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Hall Environmental Analysis Laboratory Inc.

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No. of Concession, Name

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	Sample Rec	eipt Ch	ecklist			
Client Name BLAGG			Date and Time	Received:		5/10/2007
Work Order Number 0705145			Received by	TLS		
Checklist completed by		Mar	1 10,07			
Matrix	Carrier name UPS	2				
Shipping container/cooler in good condition?	Yes		No	Not Present		
Custody seals intact on shipping container/cooler?	Yes	\checkmark	No 🗌	Not Present	Not	Shipped
Custody seals intact on sample bottles?	Yes		No 🗌	N/A		
Chain of custody present?	Yes	\checkmark	No 🗌			
Chain of custody signed when relinquished and receive	ed? Yes	\checkmark	No 🗌			
Chain of custody agrees with sample labels?	Yes		No 🗌			
Samples in proper container/bottle?	Yes		No 🗌			
Sample containers intact?	Yes		No 🗌			
Sufficient sample volume for indicated test?	Yes	\checkmark	No 🗌			
All samples received within holding time?	Yes	\checkmark	No 🗌			
Water - VOA vials have zero headspace? No '	VOA vials submitted		Yes 🗹	No 🗌		
Water - Preservation labels on bottle and cap match?	Yes		No 🗌	N/A 🗹		
Water - pH acceptable upon receipt?	Yes		No 🗌	N/A 🔽		
Container/Temp Blank temperature?		5°	4° C ± 2 Accepta	ble		
COMMENTS:			If given sufficient	time to cool.		
					·	
Client contacted Date	contacted:		Pers	on contacted		
Contacted by: Rega	rding					
Comments:						. <u></u>

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