

**3R - 380**

**ANNUAL  
MONITORING  
REPORT**

**02/04/2008**

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

3R 380

RECEIVED

2008 FEB 4 PM 12 57

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.**



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)

3R380

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**BP AMERICA PRODUCTION CO.** 2008 FEB 4 PM 12:57

**SUPPLEMENTAL GROUNDWATER REMEDIATION REPORT**

**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**

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

**Monitor Well Sampling Dates:** 6/29/06, 10/30/06, 1/24/07, 4/25/07, 5/8/07

### **Site Historic Summary:**

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**

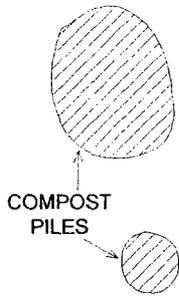
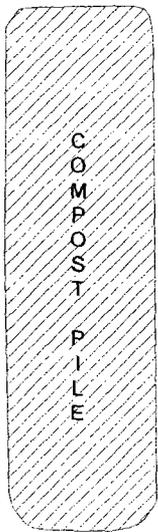
REVISED DATE: May 23, 2007

FILENAME: (214-2Q07.WK4) NJV

SAMPLE DATE	MONITOR WELL #	D.T.W. (ft)	T.D. (ft)	TDS mg/L	COND. (umhos/cm)	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
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		<b>873</b>	76.3	345	<b>1,924</b>
07-Sep-95		16.56			4,200	8.2		<b>226</b>	9.7	91.6	<b>546.6</b>
06-Dec-95		17.60			5,500	8.0		<b>421</b>	3.97	30.1	<b>100</b>
18-Mar-96		17.62			3,300	7.7		<b>115</b>	ND	ND	<b>ND</b>
04-Jun-96		17.34			4,600	7.2		<b>175</b>	ND	ND	<b>7.06</b>
25-Jun-97		16.65			3,000	8.2		<b>164</b>	0.6	59	<b>35.1</b>
08-Jun-98		16.96			3,300	7.2		<b>236</b>	7.6	17.4	<b>67.9</b>
28-May-99		16.87			3,500	7.2		<b>221</b>	10.6	11.1	<b>22.6</b>
22-May-00		16.63			3,100	7.9		<b>79</b>	ND	7.6	<b>5</b>
26-Jun-01	MW#2R	18.13	22.00		2,900	8.36		<b>100</b>	1	65	<b>191</b>
31-May-02		18.30			3,700	8.21		<b>22</b>	ND	1.8	<b>1.8</b>
29-May-03		19.97			2,600	8.05		<b>15</b>	0.99	1.8	<b>5.3</b>
23-Jun-04		18.21			3,300	7.74		<b>16</b>	ND	2.4	<b>3.3</b>
23-Jun-05		18.14			3,400	7.43		<b>26</b>	1.0	1.9	<b>3.3</b>
29-Jun-06		18.20			3,400	7.75		<b>ND</b>	ND	ND	<b>ND</b>
30-Oct-06		18.47			3,300	7.34		<b>1.5</b>	ND	ND	<b>ND</b>
24-Jan-07		18.38			3,400	7.45		<b>2.7</b>	ND	ND	<b>ND</b>
25-Apr-07		18.18			3,200	7.45		<b>2.3</b>	ND	ND	<b>ND</b>
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
<b>NMWQCC GROUNDWATER STANDARDS</b>								<b>10</b>	<b>750</b>	<b>750</b>	<b>620</b>

- 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 .

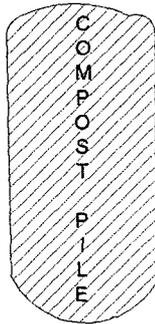
# FIGURE 1



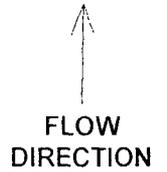
WELL HEAD



MW #4



MW #3R



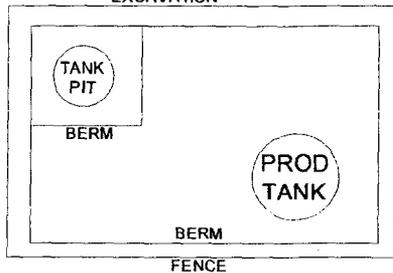
ACCESS RD.

MW #2R

SEP.

ORIGINAL PIT EXCAVATION

MW #1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGE FINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

1 INCH = 50 FEET



BP AMERICA PRODUCTION COMPANY

GCU 214

NW/4 NE/4 SEC. 16, T28N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

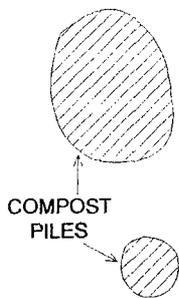
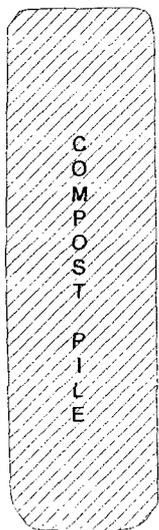
FILENAME: GCU214-SM-06-06.SKF

REVISED: 6-29-06 NJV

**SITE  
MAP**

06/06

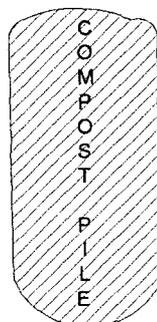
**FIGURE 2**  
(2nd 1/4, 2006)



WELL HEAD



MW #4  
(83.11)



↑  
FLOW DIRECTION

→  
DIRECTION TO GALLEGOS WASH

83.40  
APPARENT GROUNDWATER FLOW DIRECTION  
-N36.25E

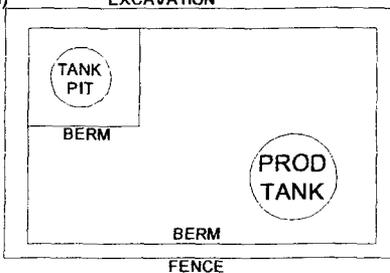
83.60

83.80  
MW #2R  
(83.51)

SEP.

ORIGINAL PIT EXCAVATION

MW #1  
(84.16)



ACCESS RD.

MW #3R  
(DRY)

Top of Well Elevation	
MW #1	(101.85)
MW #2R	(101.71)
MW #3R	(97.77)
MW #4	(102.12)
MW #1 (84.16)	Groundwater Elevation as of 6/29/06.

1 INCH = 50 FEET



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BP AMERICA PRODUCTION COMPANY

GCU 214

NW/4 NE/4 SEC. 16, T28N, R12W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 06-29-06-GW

REVISED: 6-29-06 NJV

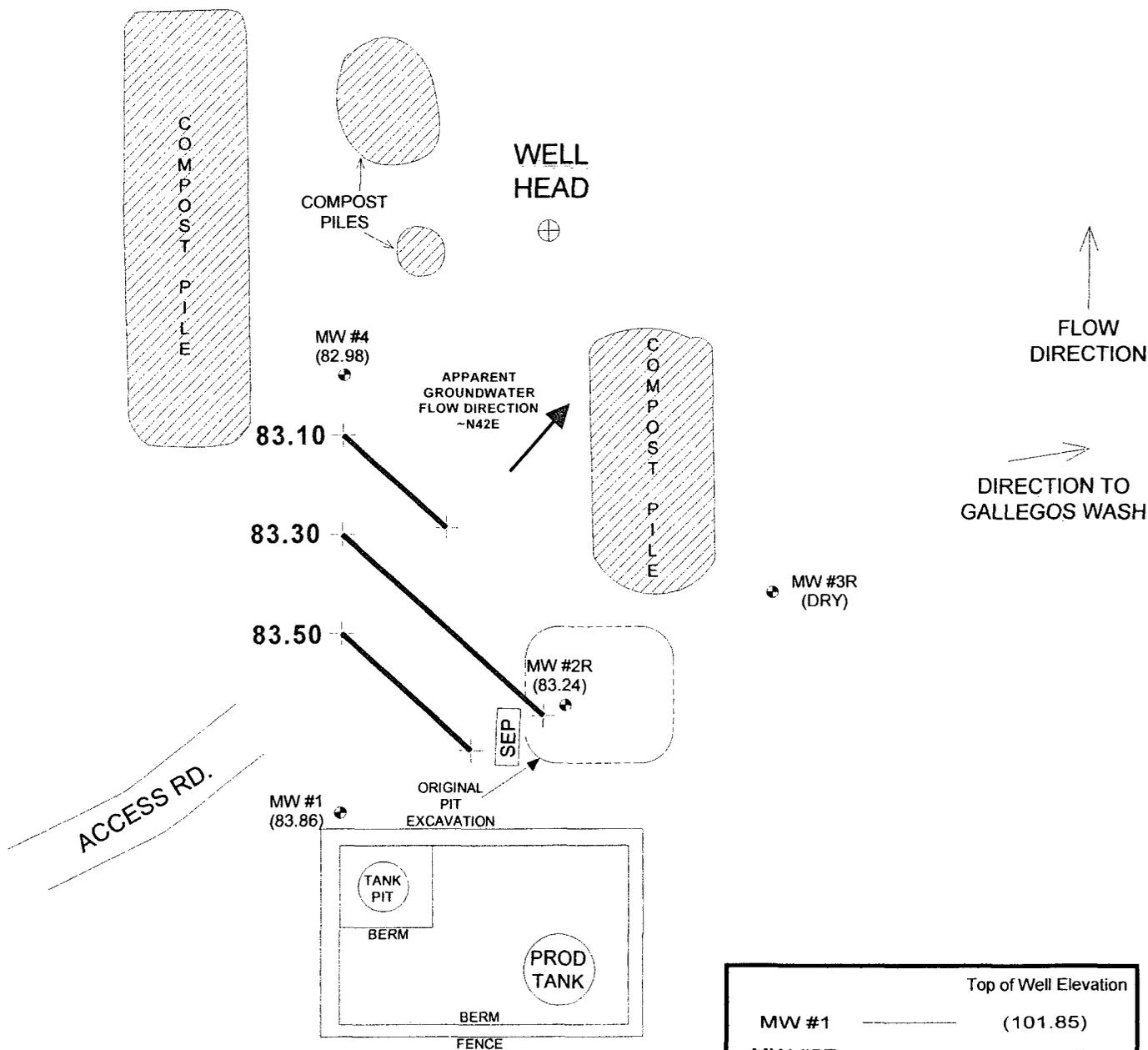
GROUNDWATER

CONTOUR

MAP

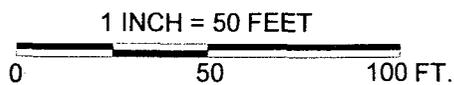
06/06

**FIGURE 3**  
(4th 1/4, 2006)



	Top of Well Elevation
MW #1	(101.85)
MW #2R	(101.71)
MW #3R	(97.77)
MW #4	(102.12)
MW #1 (83.86)	Groundwater Elevation as of 10/30/06.

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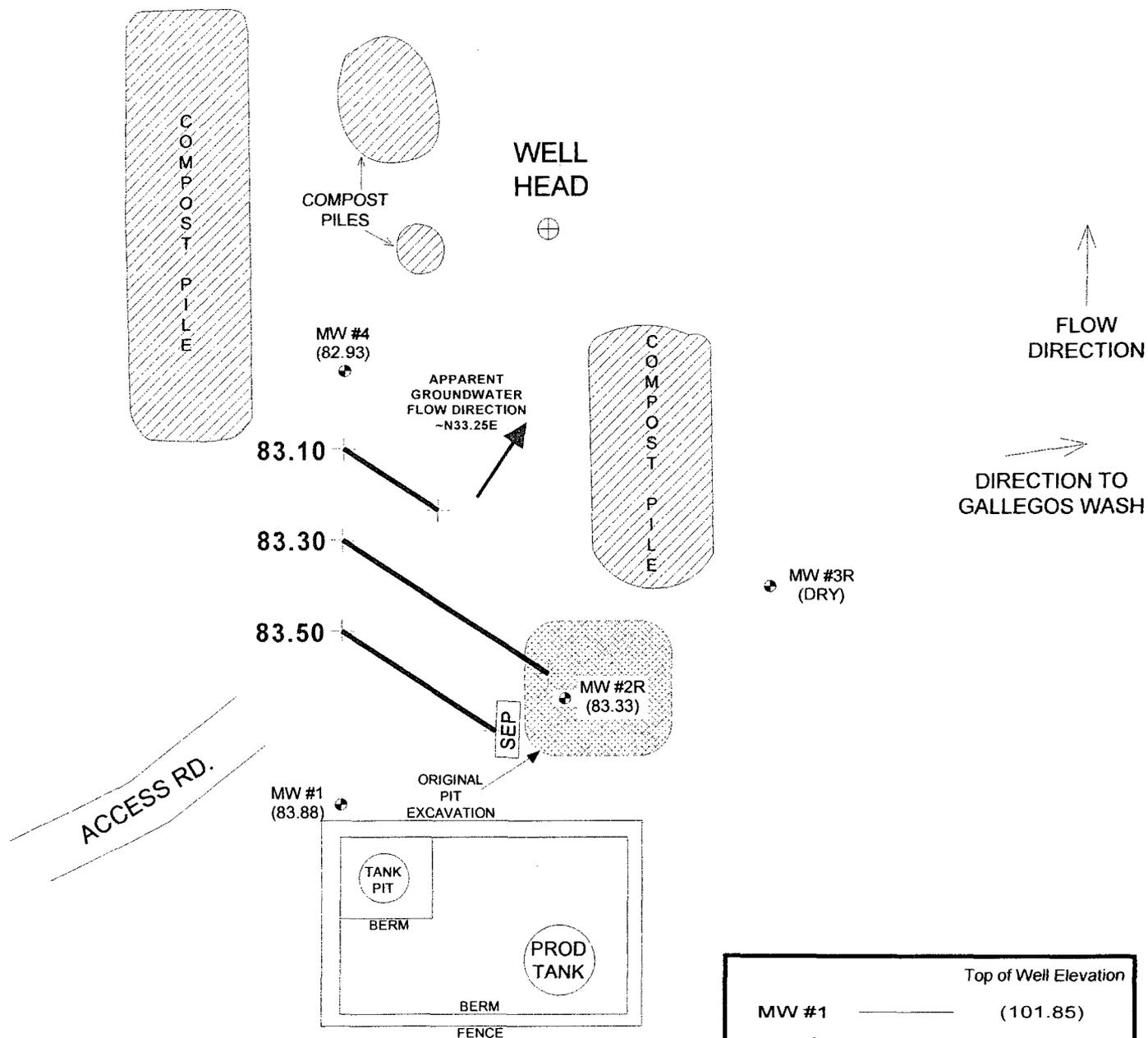
BP AMERICA PRODUCTION COMPANY  
GCU # 214  
NW/4 NE/4 SEC. 16, T28N, R12W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 10-30-06-GW  
REVISED: 10-31-06 NJV

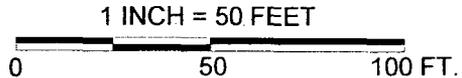
**GROUNDWATER CONTOUR MAP**  
10/06

# FIGURE 4 (1st 1/4, 2007)



	Top of Well Elevation
MW #1	(101.85)
MW #2R	(101.71)
MW #3R	(97.77)
MW #4	(102.12)
MW #1 (83.88)	Groundwater Elevation as of 1/24/07.

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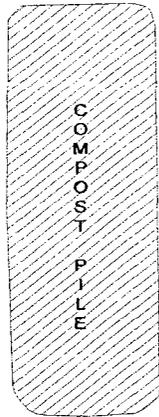
BP AMERICA PRODUCTION COMPANY  
GCU # 214  
NW/4 NE/4 SEC. 16, T28N, R12W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, I NC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 01-24-07-GW  
REVISED: 01-26-07 NJV

**GROUNDWATER  
CONTOUR  
MAP**  
01/07

# FIGURE 5 (2nd 1/4, 2007)



WELL HEAD  
⊕

MW #4  
(83.15)

↑  
FLOW DIRECTION

83.25

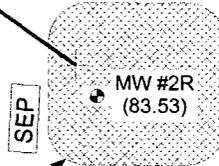
↑  
APPARENT GROUNDWATER FLOW DIRECTION  
~N35.25E

→  
DIRECTION TO GALLEGOS WASH

83.50

MW #3R  
(DRY)

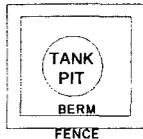
83.75



ACCESS RD.

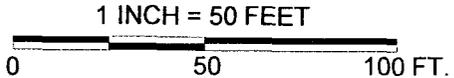
MW #1  
(84.11)

ORIGINAL PIT EXCAVATION



Top of Well Elevation	
MW #1	(101.85)
MW #2R	(101.71)
MW #3R	(97.77)
MW #4	(102.12)
● MW #1 (84.11)	Groundwater Elevation as of 4/25/07.

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BP AMERICA PRODUCTION COMPANY  
GCU # 214  
NW/4 NE/4 SEC. 16, T28N, R12W  
SAN JUAN COUNTY, NEW MEXICO

**BLAGG ENGINEERING, INC.**  
CONSULTING PETROLEUM / RECLAMATION SERVICES  
P.O. BOX 87  
BLOOMFIELD, NEW MEXICO 87413  
PHONE: (505) 632-1199

PROJECT: MW SAMPLING  
DRAWN BY: NJV  
FILENAME: 04-25-07-GW  
REVISED: 04-30-07 NJV

**GROUNDWATER  
CONTOUR  
MAP**  
04/07

**BLAGG ENGINEERING, INC.**

**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

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

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 29, 2006

SAMPLER : N J V

Filename : 06-29-06.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (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	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	06/26/06	0630

NOTES : Volume of water purged from well prior to sampling:  $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
 (i.e. 2" MW  $r = (1/12) \text{ ft}$ .  $h = 1 \text{ ft}$ .) (i.e. 4" MW  $r = (2/12) \text{ ft}$ .  $h = 1 \text{ ft}$ .)

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 , plantlike substance @ approx. 14.50 ft . , therefore unable to collect water depth information .

# Hall Environmental Analysis Laboratory, Inc.

Date: 17-Jul-06

CLIENT: Blagg Engineering  
 Lab Order: 0606377  
 Project: GCU #214  
 Lab ID: 0606377-01

Client Sample ID: MW #2R  
 Collection Date: 6/29/2006 8:00:00 AM  
 Date Received: 6/30/2006  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						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-Bromofluorobenzene	94.5	72.2-125		%REC	1	7/12/2006 10:59:54 AM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 E Value above quantitation range  
 J Analyte detected below quantitation 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



## QA/QC SUMMARY REPORT

Client: Blagg Engineering  
Project: GCU #214

Work Order: 0606377

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
<b>Method: SW8021</b>									
<b>Sample ID: 5ML RB</b>		<i>MBLK</i>		Batch ID: <b>R19846</b>		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						
<b>Sample ID: 5ML RB</b>		<i>MBLK</i>		Batch ID: <b>R19868</b>		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						
<b>Sample ID: 5ML RB</b>		<i>MBLK</i>		Batch ID: <b>R19886</b>		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						
<b>Sample ID: 100NG BTEX LCS</b>		<i>LCS</i>		Batch ID: <b>R19846</b>		Analysis Date: 7/10/2006 1:14:32 PM			
Benzene	19.16	µg/L	1.0	95.8	85	115			
Toluene	18.37	µg/L	1.0	90.3	85	118			
Ethylbenzene	19.10	µg/L	1.0	95.5	85	116			
Xylenes, Total	59.24	µg/L	3.0	96.2	85	119			
<b>Sample ID: 100NG BTEX LCS</b>		<i>LCS</i>		Batch ID: <b>R19868</b>		Analysis Date: 7/11/2006 7:20:12 PM			
Benzene	18.97	µg/L	1.0	94.8	85	115			
Toluene	17.83	µg/L	1.0	89.1	85	118			
Ethylbenzene	18.23	µg/L	1.0	91.1	85	116			
Xylenes, Total	56.77	µg/L	3.0	93.1	85	119			
<b>Sample ID: 100NG LCS</b>		<i>LCS</i>		Batch ID: <b>R19886</b>		Analysis Date: 7/12/2006 8:56:18 PM			
Benzene	18.48	µg/L	1.0	92.4	85	115			
Toluene	17.89	µg/L	1.0	89.5	85	118			
Ethylbenzene	18.70	µg/L	1.0	93.5	85	116			
Xylenes, Total	57.67	µg/L	3.0	95.0	85	119			
<b>Sample ID: 100NG BTEX LCSD</b>		<i>LCSD</i>		Batch ID: <b>R19846</b>		Analysis Date: 7/10/2006 6:40:10 PM			
Benzene	19.17	µg/L	1.0	95.9	85	115	0.0730	27	
Toluene	17.96	µg/L	1.0	88.2	85	118	2.27	19	
Ethylbenzene	18.63	µg/L	1.0	93.2	85	116	2.46	10	
Xylenes, Total	59.62	µg/L	3.0	96.8	85	119	0.643	13	
<b>Sample ID: 100NG BTEX LCSD</b>		<i>LCSD</i>		Batch ID: <b>R19868</b>		Analysis Date: 7/11/2006 7:49:12 PM			
Benzene	19.72	µg/L	1.0	98.6	85	115	3.88	27	
Toluene	19.09	µg/L	1.0	95.4	85	118	6.84	19	
Ethylbenzene	19.91	µg/L	1.0	99.6	85	116	8.83	10	
Xylenes, Total	61.88	µg/L	3.0	102	85	119	8.61	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  
ND Not Detected at the Reporting Limit  
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

6/30/2006

Work Order Number 0606377

Received by AT

Checklist completed by

Signature

Date

6/30/06

Matrix

Carrier name Greyhound

- 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
- 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 - pH acceptable upon receipt? Yes  No  N/A

Container/Temp Blank temperature? 6° *4° C ± 2 Acceptable*  
If given sufficient time to cool.

COMMENTS:

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Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Corrective Action \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**BLAGG ENGINEERING, INC.**

**MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA**

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

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

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : October 30, 2006

SAMPLER : N J V

Filename : 10-30-06.WK4

PROJECT MANAGER : N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.85	83.86	17.99	-	-	-	-	-	-
2R	101.71	83.24	18.47	22.00	1455	7.34	3,300	20.4	1.00
3R	97.77		DRY	17.50	-	-	-	-	-
4	102.12	82.98	19.14	20.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	10/27/06	0845

NOTES : Volume of water purged from well prior to sampling;  $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3$  (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 Environmental Analysis Laboratory, Inc.

Date: 03-Nov-06

CLIENT: Blagg Engineering  
 Lab Order: 0611005  
 Project: GCU #214  
 Lab ID: 0611005-01

Client Sample ID: MW #2R  
 Collection Date: 10/30/2006 2:55:00 PM  
 Date Received: 11/1/2006  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
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-Bromofluorobenzene	90.2	72.2-125		%REC	1	11/2/2006 9:46:38 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 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

# CHAIN-OF-CUSTODY RECORD

Client: BLASS ENER. / BY AMERICA

Address: P.O. BOX 87

BLFD, NM 87413

Phone #: 632-1199

Fax #:

Date: 10/30/06

Time: 1455

Matrix: WATER

Number/Volume: 2-40ml

HEAL No. 0611005

Preservative: -1

HgCl<sub>2</sub>

HNO<sub>3</sub>

Sample Temperature: 3°

Project Manager: NV

Sampler: NV

Project #: 917

Other: SCU # 214

QA/QC Package:  Std  Level 4

# HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

## ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)	<input checked="" type="checkbox"/>
BTEX + MTBE + TMBs (80218)	<input checked="" type="checkbox"/>
TPH Method 8015B (Gas/Diesel)	<input type="checkbox"/>
TPH (Method 418.1)	<input type="checkbox"/>
EDB (Method 504.1)	<input type="checkbox"/>
EDC (Method 8021)	<input type="checkbox"/>
8310 (PNA or PAH)	<input type="checkbox"/>
RCRA 8 Metals	<input type="checkbox"/>
Anions (F <sup>-</sup> , Cl <sup>-</sup> , NO <sub>2</sub> <sup>-</sup> , NO <sub>3</sub> <sup>-</sup> , PO <sub>4</sub> <sup>3-</sup> , SO <sub>4</sub> <sup>2-</sup> )	<input type="checkbox"/>
8081 Pesticides / PCB's (8082)	<input type="checkbox"/>
8260B (VOA)	<input type="checkbox"/>
8270 (Semi-VOA)	<input type="checkbox"/>
Air Bubbles or Headspace (Y or N)	<input type="checkbox"/>

Remarks:

Received By: (Signature) [Signature] 11-1-06

Date: 10/31/06 Time: 1700

Relinquished By: (Signature) [Signature]

Date: 10/31/06 Time: 1700

Received By: (Signature) [Signature]

Date: 10/31/06 Time: 1700



Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

11/1/2006

Work Order Number 0611005

Received by GLS

Checklist completed by

[Signature]  
Signature

11-1-06  
Date

Matrix

Carrier name Greyhound

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

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 - pH acceptable upon receipt?

Yes

No

N/A

Container/Temp Blank temperature?

3°

*4° C ± 2 Acceptable*

*If given sufficient time to cool.*

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # :                     N / A                    

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

LABORATORY (S) USED :                     HALL ENVIRONMENTAL                    

Date :                     January 24, 2007                    

SAMPLER :                     N J V                    

Filename :                     01-24-07.WK4                    

PROJECT MANAGER :                     N J V                    

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
1	101.85	83.88	17.97	-	-	-	-	-	-
2R	101.71	83.33	18.38	22.00	1345	7.45	3,400	14.6	1.25
3R	97.77		DRY	17.50	-	-	-	-	-
4	102.12	82.93	19.19	20.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	01/22/07	1115

NOTES : Volume of water purged from well prior to sampling;  $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
 (i.e. 2" MW  $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$ ) (i.e. 4" MW  $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$ )

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 Environmental Analysis Laboratory, Inc.**

Date: 29-Jan-07

CLIENT: Blagg Engineering  
 Lab Order: 0701312  
 Project: GCU #214  
 Lab ID: 0701312-01

Client Sample ID: MW#2R  
 Collection Date: 1/24/2007 1:45:00 PM  
 Date Received: 1/26/2007  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						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-Bromofluorobenzene	88.6	70.2-105		%REC	1	1/26/2007 11:50:17 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 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



QA/QC SUMMARY REPORT

Client: Blagg Engineering  
 Project: GCU #214

Work Order: 0701312

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

Sample ID: 5ML RB MBLK Batch ID: 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 LCS 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

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

1/26/2007

Work Order Number 0701312

Received by TLS

Checklist completed by

[Signature]  
Signature

Date

1-26-07

Matrix

Carrier name Greyhound

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

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 match?

Yes

No

N/A

Water - pH acceptable upon receipt?

Yes

No

N/A

Container/Temp Blank temperature?

3°

*4° C ± 2 Acceptable*

*If given sufficient time to cool.*

COMMENTS:

Client contacted \_\_\_\_\_

Date contacted: \_\_\_\_\_

Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_

Regarding \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N / A

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

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: April 25, 2007

SAMPLER: N J V

Filename: 04-25-07.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (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	-	-	-	-	-

INSTRUMENT CALIBRATIONS = 

7.00	2,800
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DATE & TIME = 

04/25/07	0855
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NOTES: Volume of water purged from well prior to sampling:  $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$   
(i.e. 2" MW  $r = (1/12) \text{ ft}$ .  $h = 1 \text{ ft}$ .) (i.e. 4" MW  $r = (2/12) \text{ ft}$ .  $h = 1 \text{ ft}$ .)

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 Environmental Analysis Laboratory, Inc.**

Date: 30-Apr-07

CLIENT: Blagg Engineering  
 Lab Order: 0704416  
 Project: GCU #214  
 Lab ID: 0704416-01

Client Sample ID: MW #2R  
 Collection Date: 4/25/2007 1:00:00 PM  
 Date Received: 4/26/2007  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
Methyl tert-butyl 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-Trimethylbenzene	1.8	1.0		µg/L	1	4/28/2007 12:05:37 PM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	4/28/2007 12:05:37 PM
Surr: 4-Bromofluorobenzene	87.3	70.2-105		%REC	1	4/28/2007 12:05:37 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level      B Analyte detected in the associated Method Blank  
 E Value above quantitation range      H Holding times for preparation or analysis exceeded  
 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

# CHAIN-OF-CUSTODY RECORD

Client: BLAZZ ENER. / BP America

Address: P.O. BOX 87

B.F.O., NM 87413

Phone #: 632-1199

Fax #:

GA/QC Package:  
 Std  Level 4

Other:

Project Name:

Gen # 214

Project #:

NV

Project Manager:

NV

Sampler:

NV

Sample Temperature:

7°

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl<sub>2</sub>

HNO<sub>3</sub>

HEAL No.

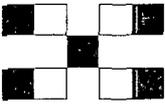
0704416

4/25/07 1300 WATER MW # 2R 2-40ml ✓ -1

BTEX + MTBE + TMB's (80218)	✓
BTEX + MTBE + TPH (Gasoline Only)	
TPH Method 8015B (Gas/Diesel)	
TPH (Method 418.1)	
EDB (Method 504.1)	
EDC (Method 8021)	
8310 (PNA or PAH)	
RCRA 8 Metals	
Anions (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> )	
8081 Pesticides / PCB's (8082)	
8260B (VOA)	
8270 (Semi-VOA)	
Air Bubbles or Headspace (Y or N)	

## ANALYSIS REQUEST

**HALL ENVIRONMENTAL ANALYSIS LABORATORY**  
 4901 Hawkins NE, Suite D  
 Albuquerque, New Mexico 87109  
 Tel: 505.345.3975 Fax 505.345.4107  
 www.hallenvironmental.com



Remarks:

Received By: (Signature) [Signature] 4/26/07

Received By: (Signature) [Signature] 4/11/07

Relinquished By: (Signature) [Signature]

Time: 1535

Date: 4/25/07

Relinquished By: (Signature) [Signature]

Time:

Date:

## QA/QC SUMMARY REPORT

Client: Blagg Engineering

Project: GCU #214

Work Order: 0704416

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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Method: SW8021

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						
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	2.0						
1,2,4-Trimethylbenzene	ND	µg/L	1.0						
1,3,5-Trimethylbenzene	ND	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			
Benzene	19.11	µg/L	1.0	95.6	85.9	113			
Toluene	19.66	µg/L	1.0	98.3	86.4	113			
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			
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			

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R23390 Analysis Date: 4/28/2007 10:35:06 AM

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	
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	
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:

E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	S	Spike recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

4/26/2007

Work Order Number 0704416

Received by TLS

Checklist completed by

[Signature]  
Signature

4-26-07  
Date

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  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  No
- Water - VOA vials have zero headspace? Yes  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?

7°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_

# BLAGG ENGINEERING, INC.

## MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # :           N / A          

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

LABORATORY (S) USED :           HALL ENVIRONMENTAL          

Date :           May 8, 2007          

SAMPLER :           N J V          

Filename :           05-08-07.WK4          

PROJECT MANAGER :           N J V          

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (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
4	102.12		-	20.00	-	-	-	-	-

INSTRUMENT CALIBRATIONS = 

7.00	2,800
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DATE & TIME = 

05/08/07	0740
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NOTES : Volume of water purged from well prior to sampling;  $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$ .  
(i.e. 2" MW  $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$  (i.e. 4" MW  $r = (2/12) \text{ ft. } h = 1 \text{ ft.}$ )

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 "

Good recovery in MW # 3R . Collected sample for BTEX analysis from MW # 3R only .

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**Hall Environmental Analysis Laboratory, Inc.**

Date: 22-May-07

CLIENT: Blagg Engineering  
 Lab Order: 0705145  
 Project: GCU #214  
 Lab ID: 0705145-01

Client Sample ID: MW #3R  
 Collection Date: 5/8/2007 9:00:00 AM  
 Date Received: 5/10/2007  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst: NSB
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
Surr: 4-Bromofluorobenzene	89.6	70.2-105		%REC	1	5/11/2007 4:10:04 PM

Qualifiers: \* Value exceeds Maximum Contaminant Level  
 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

# CHAIN-OF-CUSTODY RECORD

Client: BLAZE ENER./BP AMERICA

Address: P.O. BOX 87

BEO., NM 87413

Phone #: 632-1199

Fax #:

GA / QC Package:

Std  Level 4

Other:

Project Name:

GCN # 214

Project #:

NV

Project Manager:

NV

Sampler:

NV

Sample Temperature:

5

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl<sub>2</sub> HNO<sub>3</sub>

HEAL No.

5/8/07

0900

WATER

NW # 3R

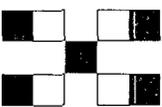
2-40ml

0705145

1

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com



## ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)

BTEX + MTBE + TMB's (80218)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

Date:

Time:

Relinquished By: (Signature)

Received By: (Signature)

Date:

Time:

Relinquished By: (Signature)

Received By: (Signature)

Date:

Time:

Relinquished By: (Signature)

Received By: (Signature)



Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

5/10/2007

Work Order Number 0705145

Received by TLS

Checklist completed by

Jimmy SL  
Signature

May 10, 07  
Date

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  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  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 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action \_\_\_\_\_