

3R - 410

**ANNUAL
MONITORING
REPORT**

01/28/2008

BLAGG ENGINEERING, INC.

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

3R41J

January 28, 2008

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

OGRID 41874

**Re: BP America Production Company (formerly Amoco Production Co. & BP Amoco)
Groundwater Monitoring Report
Sammons GC F # 1, Unit A, Sec. 18, T29N, R9W, NMPM
San Juan County, New Mexico**

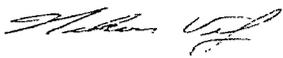
Dear Mr. Von Gonten:

BP America Production Company (BP) has retained Blagg Engineering, Inc. (BEI) to conduct environmental monitoring of groundwater at the Sammons GC F # 1.

BP has followed its NMOCD approved groundwater management plan and continues groundwater monitoring at the site. No permanent closure is requested 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: Brandon Powell, Environmental Specialist, NMOCD District III Office, Aztec, NM
Mr. Larry Schlotterback, Environmental Coordinator, BP, Farmington, NM (without lab report)

3R410

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

2006-2007

**SAMMONS GC F #1
(A) SECTION 18, T29N, R9W, NMPM
SAN JUAN COUNTY, NEW MEXICO**

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

JANUARY 2008

**PREPARED BY:
BLAGG ENGINEERING, INC.**

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

**BP America Production Co.
Sammons GC F # 1 – Production Tank Pit
Ne/4 Ne/4, Sec. 18, T29N, R9W**

Pit Closure Date: 8/17/04 (Documentation Included)

Monitor Well Installation Date: 11/01/06 (MW #2A), 8/29/07 (MW #1A & #3A)

Monitor Well Sampling Dates: 11/14/06, 2/26/07, 5/22/07, 8/16/07, 9/19/07, 12/03/07

Site History:

A potential groundwater impact was identified following closure of a production tank pit in August 2004. Impacted soils were removed from the pit (approximately 25 cubic yards) and the exposed groundwater pumped the day after the excavation was completed. A single groundwater monitoring well was installed in the source area November, 1st, 2006 to test water depth and quality. The water table aquifer is found between two (2) to six (6) feet below grade. The well site is located on a private/fee lease in Blanco, New Mexico. No domestic or municipal receptors have been identified to be at risk. Initial water test results indicated impacts were present, but at levels near or below New Mexico Water Quality Control Commission (NMWQCC) standards. As a result, an initial agency notification of potential impacts was not made due to an administrative oversight. However, quarterly sampling has been ongoing to quantify water quality parameters and additional monitor wells were installed in August, 2007 in order to establish groundwater gradient and delineation of potential impacts.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (*Figure 1*) following US EPA: SW-846 protocol. The samples were collected using new disposable bailers and were placed in laboratory supplied containers, stored in an ice chest with ice and express delivered to the laboratory for testing. Samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8020 or 8021 and for general water chemistry. The samples were preserved cool and with either mercuric chloride or hydrochloric acid (BTEX samples only) and expressed delivered to a qualified laboratory for testing. 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:

Quarterly monitoring of the source area well has found groundwater impacts with the constituent benzene ranging from just above to below the NMWQCC standard of 10 ug/L. Toluene and ethyl-benzene have consistently tested at values well below standards. Total xylenes levels have also been above NMWQCC standards, but has shown dramatic fluctuation between sample events. The regional groundwater gradient has been recorded in the southwest direction toward MW #3A.

Summary and/or Recommendations:

Groundwater at the former production tank pit is currently being monitored on a quarterly basis. Although benzene and total xylenes have exceeded NMWQCC standards within the source area, delineation in the down gradient direction appears to have been achieved (see MW #3A lab results on following page plus Figures 2, 3, & 4 - Groundwater Contour Maps). It is recommended to conduct a more thorough, but limited, impacted soil removal from the source area. Thereafter, install a replacement monitor well and continue quarterly sampling until a minimum of four (4) consecutive sampling events below NMWQCC standards has been attained.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, 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

Form C-144
June 1, 2004

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes No
Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank

Operator: BP AMERICA PROD. CO. Telephone: (505)-326-9200 e-mail address: _____
Address: 200 ENERGY COURT, FARMINGTON, NM 87410
Facility or well name: SAMMONS GC F #1 API #: 30-045- 21020 U/L or Qtr/Qtr A Sec 18 T 29N R 9W
County: SAN JUAN Latitude 36.73039 Longitude 107.81444 NAD: 1927 1983 Surface Owner Federal State Private Indian

Pit	Below-grade tank		
Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> <u>PRODUCTION TANK</u> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> <u>STEEL TANK</u> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	Volume: _____ bbl Type of fluid: _____ Construction material: <u>N/A</u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not.		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more	(20 points) (10 points) (0 points)	20
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No	(20 points) (0 points)	0
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more	(20 points) (10 points) (0 points)	20
	Ranking Score (Total Points)		40

If this is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite offsite If offsite, name of facility CROUCH MESA FACILITY. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No Yes If yes, show depth below ground surface 3.5 ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: PIT LOCATED APPROXIMATELY 160 FT. S37E FROM WELL HEAD.
PIT EXCAVATION: WIDTH 20 ft., LENGTH 20 ft., DEPTH 2 ft.
PIT REMEDIATION: CLOSE AS IS: , LANDFARM: , COMPOST: , STOCKPILE: , OTHER (explain) MONITOR WELL REQUIRED.
Cubic yards: 25
GROUNDWATER ENCOUNTERED.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit , or an alternative OCD-approved plan .

Date: 08/23/04

PrintedName/Title Jeff Blagg - P.E. # 11607 Signature [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title _____ Signature _____ Date: _____

CLIENT: <u>BP</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: _____ COCR NO: _____
-------------------	---	--------------------------------------

5

FIELD REPORT: PIT CLOSURE VERIFICATION PAGE No: 1 of 1

LOCATION: NAME: <u>SAMMONS GC F WELL# 1</u> TYPE: <u>PROD. TANK</u>	DATE STARTED: <u>8/17/04</u>
QUAD/UNIT: <u>A SEC: 18 TWP: 29N RNG: 9W PM: NM CNTY: ST ST: NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>790'N/1070'E</u> NE/NE CONTRACTOR: <u>L&L (BQAN)</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

EXCAVATION APPROX. 20 FT. x 20 FT. x 2 FT. DEEP. CUBIC YARDAGE: 25

DISPOSAL FACILITY: CRONCH MESA FACILITY REMEDIATION METHOD: LANDFARM?

LAND USE: RANGE - S.J. RIVER VALLEY LEASE LEASE: FEE FORMATION: FT

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FT. S37E FROM WELLHEAD.

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: <200'

NMOCD RANKING SCORE: 40 NMOCD TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:

OVM CALIB. READ. = <u>53.8</u> ppm CHECK
OVM CALIB. GAS = <u>100</u> ppm RF = <u>0.52</u>
TIME: <u>11:11</u> am/pm DATE: <u>8/17/04</u>

SOIL TYPE: (SAND) SILTY SAND / SILT / SILTY CLAY / CLAY / (GRAVEL) OTHER IMPORTED ROAD BASE/GRAVEL

SOIL COLOR: _____

COHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVE

CONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSE

PLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTIC

DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD

MOISTURE: DRY / SLIGHTLY MOIST / MOIST / WET / SATURATED / SUPER SATURATED

DISCOLORATION/STAINING OBSERVED: YES/NO EXPLANATION - BLACK ROAD BASE/GRAVEL

HC ODOR DETECTED: YES/NO EXPLANATION - w/ w/ BLACK ROAD BASE/GRAVEL MATERIAL BELOW GROUNDWATER SURFACE

SAMPLE TYPE: (GRAB) COMPOSITE - # OF PTS. _____

ADDITIONAL COMMENTS: GROUNDWATER ENCOUNTERED @ ~ 3.5' BELOW GRADE, WILL EXCAVATE ~ 20'x20' AREA + PUMPED GROUNDWATER w/ WATER TRUCK (8/18/04 - MORN.).

GROUNDWATER IMPACTED

MONITOR WELL INSTALL. REQ.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (ppm)

SCALE

0 FT

PIT PERIMETER

PIT PROFILE

NOT APPLICABLE

OVM READING

SAMPLE ID	FIELD HEADSPACE (ppm)
1 @	
2 @	
3 @	
4 @	
5 @	
SOIL SAMPLE	
<u>DE4 (IGW)</u>	<u>246</u>
<u>IGW = 12' GROUNDWATER</u>	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES: CALLOUT: 8/16/04 - MORN. ONSITE: 8/17/04 - MORN. + AFTER (SCHED.)

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

**SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W**

REVISED DATE: December 6, 2007

FILENAME: (SF1-4Q07.WK4) NJV

SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	BTEX EPA METHOD 8021B (ppb)			
								Benzene	Toluene	Ethyl Benzene	Total Xylene
19-Sep-07	MW #1A	5.25	15.00		700	6.86		ND	ND	ND	ND
14-Nov-06	MW #2A	6.05	13.00		1,300	6.96		10	ND	14	1,000
26-Feb-07		5.92			1,500	6.91		ND	ND	ND	670
22-May-07		3.86			900	6.78		14	ND	ND	270
16-Aug-07		5.12			1,200	6.73		4.9	ND	7.8	2,300
03-Dec-07		3.83	11.22		1,200	7.12		3.7	3.4	2.1	1,200
19-Sep-07	MW #3A	3.11	13.50		900	6.74		ND	ND	ND	ND
03-Dec-07		3.49			900	7.11		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS								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 .

GENERAL WATER QUALITY
BP AMERICA PRODUCTION COMPANY
SAMMONS GC F # 1

Sample Dates : November 14 , 2006 & October 3 , 2007

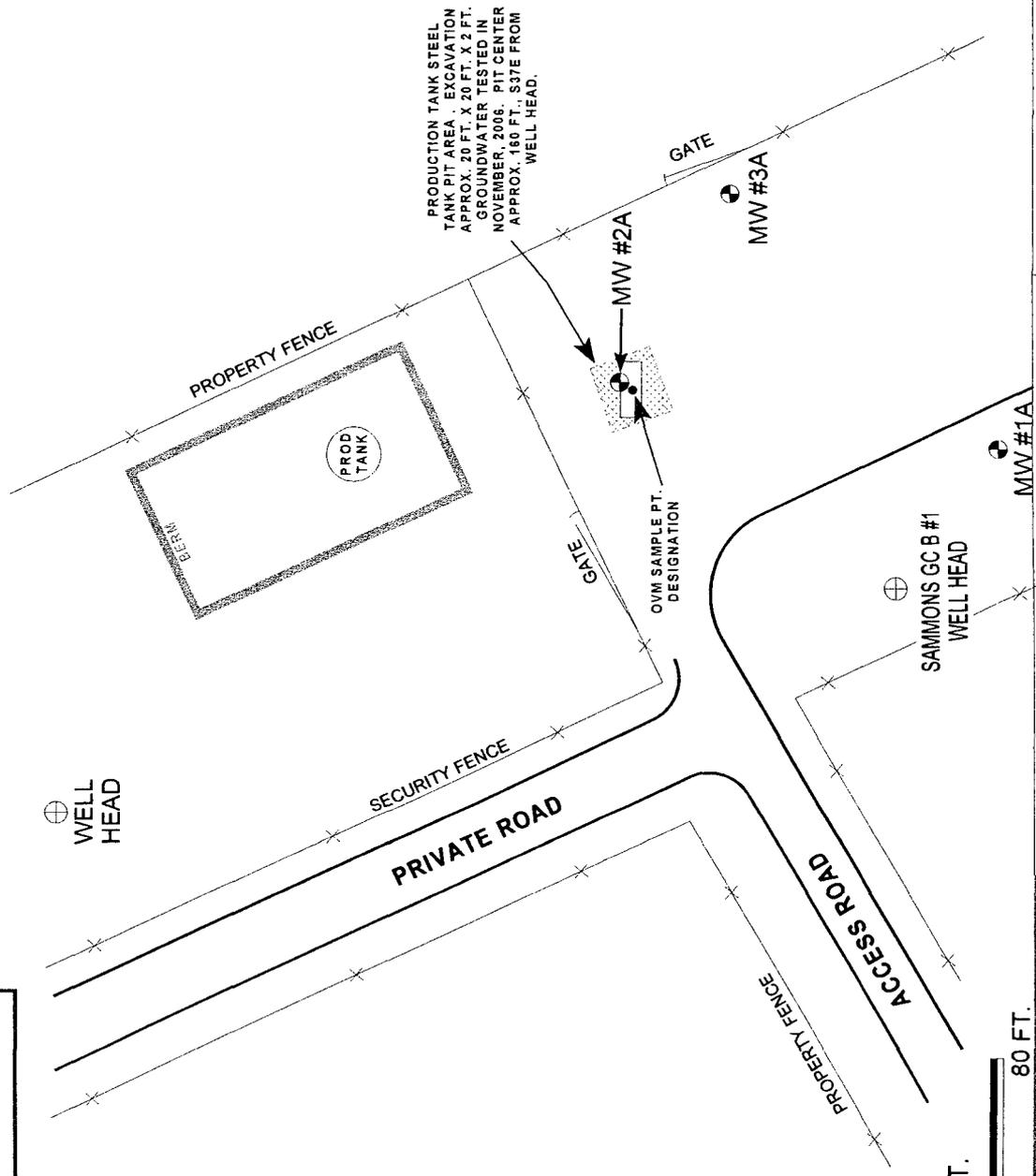
PARAMETERS	MW # 1A	MW # 2A	MW # 3A	NMWQCC STANDARDS	Units
	09/19/07	11/14/06	09/19/07		
LAB pH	7.12	7.18	7.02	6 - 9	s. u.
TOTAL DISSOLVED SOLIDS	1,000	904	95	1,000	mg / L
NITROGEN, NITRITE	ND	0.024	ND	10.0	mg / L
NITROGEN , NITRATE	ND	< 0.1	ND	10.0	mg / L
CHLORIDE	5.2	82.0	15	250	mg / L
FLUORIDE	0.42	1.52	1.0	1.6	mg / L
SULFATE	89	21.3	24	600	mg / L
IRON	ND	3.08	0.44	1.0	mg / L

Notes :

- 1) NMWQCC - New Mexico Water Quality Control Commission .
- 2) s. u. - stanadard unit .
- 3) mg / L - milligrams per liter or otherwise known as parts per million (ppm) .
- 4) New Mexico Oil Conservation Division (NMOCD) recognizes the NMWQCC or background levels (statistical equivalence) as the standards for each site specific scenario .

FIGURE 1

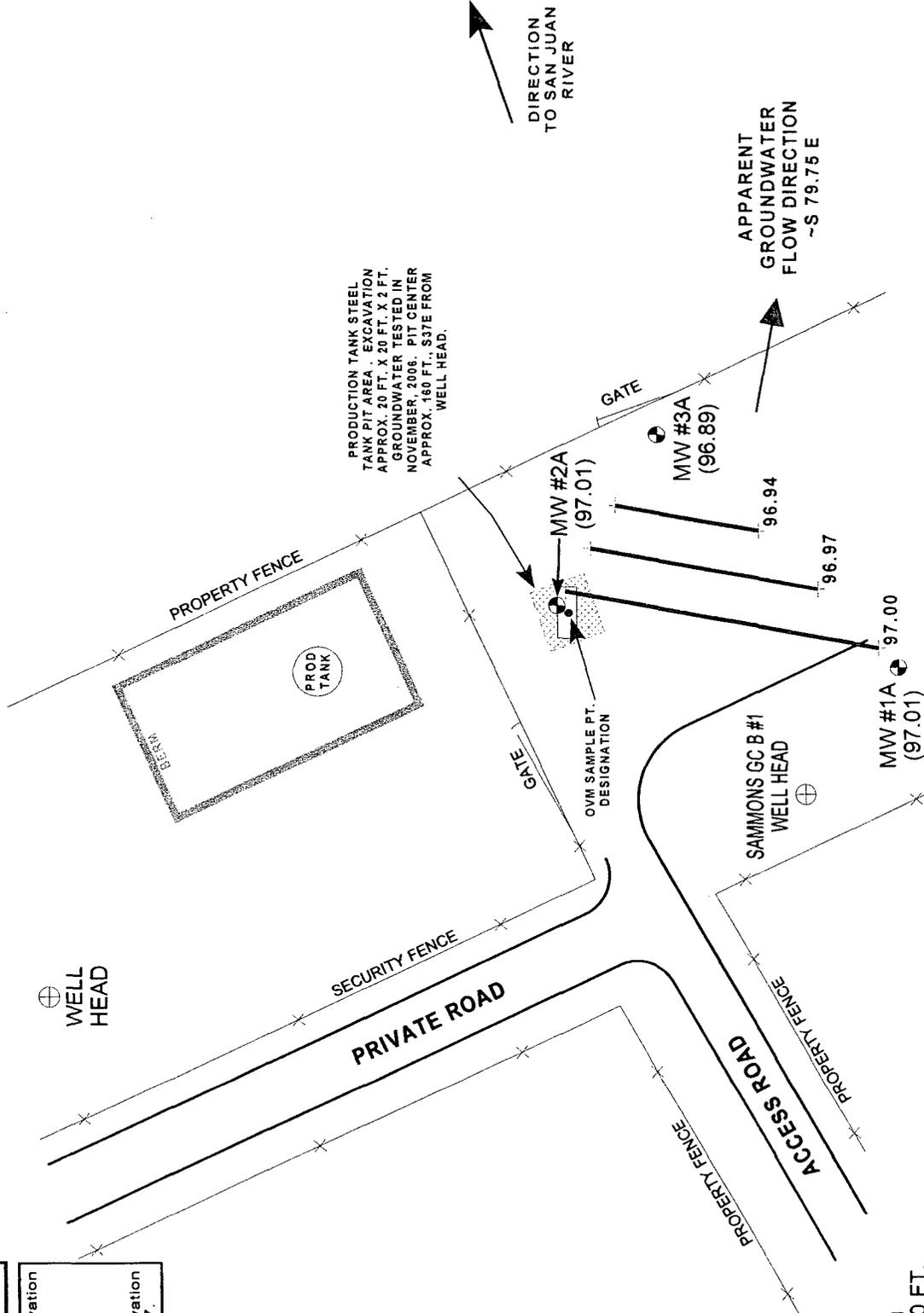
MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE & BEARING FROM THE WELL HEAD (TAPE MEASURE, LASER RANGE FINDER, & BRUNTON COMPASS). ALL OTHER STRUCTURES DISPLAYED ON THIS MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.



1 INCH = 40 FT.
 0 40 80 FT.

<p>SITE MAP 08/07</p>	<p>PROJECT: MW INSTALLATION DRAWN BY: NJV FILENAME: SAMMONS GC F 1-SM2.SKF REVISED: 08-23-07</p>	<p>BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199</p>	<p>BP AMERICA PRODUCTION CO. SAMMONS GC F #1 NE/4 NE/4 SEC. 18, T29N, R9W SAN JUAN COUNTY, NEW MEXICO</p>
----------------------------------	---	--	---

FIGURE 2
(3rd 1/4, 2007)



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

Top of Well Elevation	
MW #1A	(102.05)
MW #2A	(102.01)
MW #3A	(99.76)
MW #1A (97.01)	Groundwater Elevation as of 08/31/07.

1 INCH = 40 FT.



BP AMERICA PRODUCTION CO.
SAMMONS GC F # 1
NE/4 NE/4 SEC. 18. T29N. R9W
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 INSTALLATION
 DRAWN BY: NJV
 FILENAME: 08-31-07-GW.SKF
 REVISED: 08-31-07

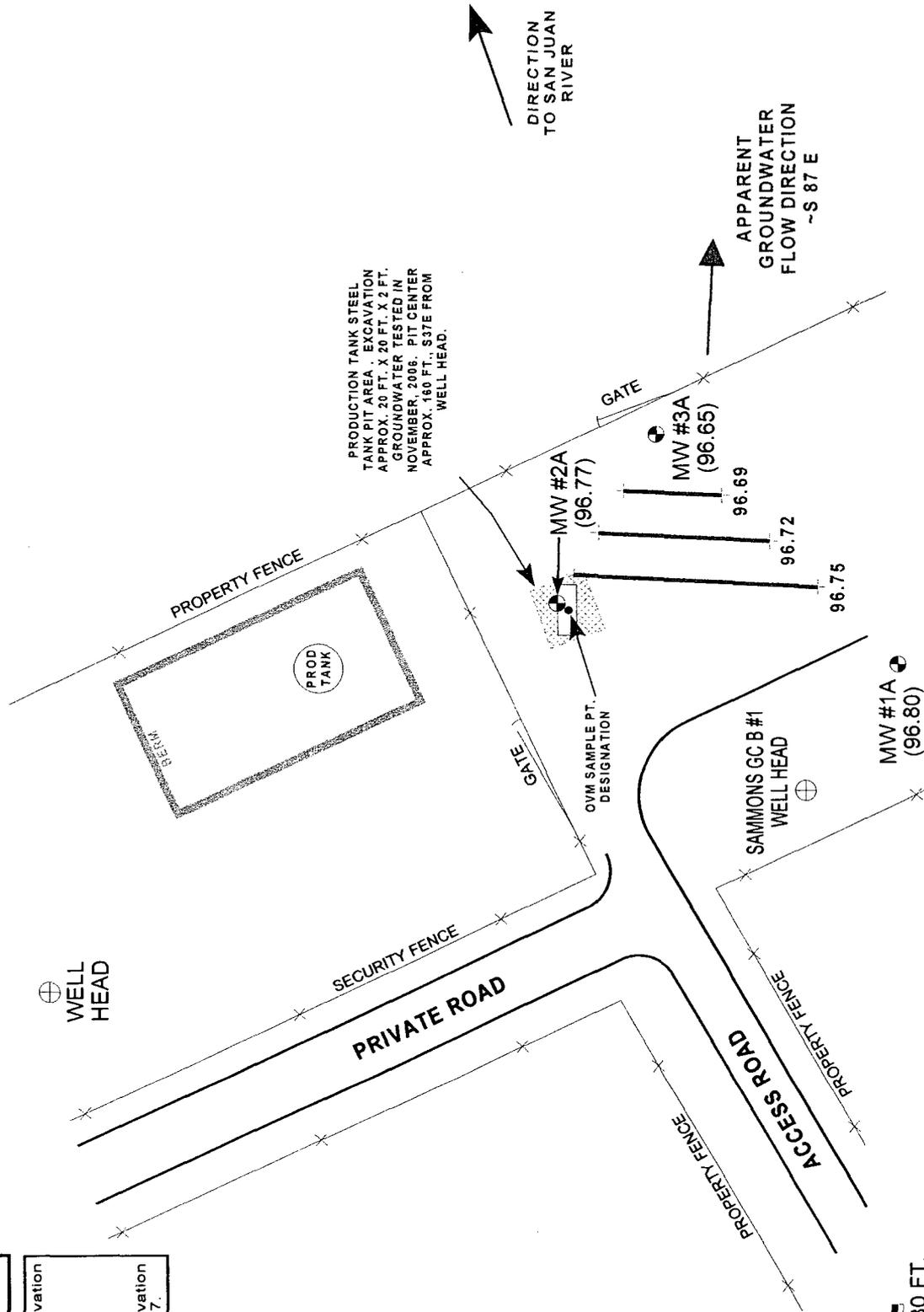
GROUNDWATER CONTOUR MAP
 08/07

FIGURE 3

(3rd 1/4, 2007)

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

	Top of Well Elevation
MW #1A	(102.05)
MW #2A	(102.01)
MW #3A	(99.76)
☉ MW #1A (96.80)	Groundwater Elevation as of 09/19/07.



1 INCH = 40 FT.



BP AMERICA PRODUCTION CO.
SAMMONS GC F. #1
NE/4 NE/4 SEC. 18, T29N, R9W
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: 09-19-07-GW.SKF
REVISED: 09-19-07

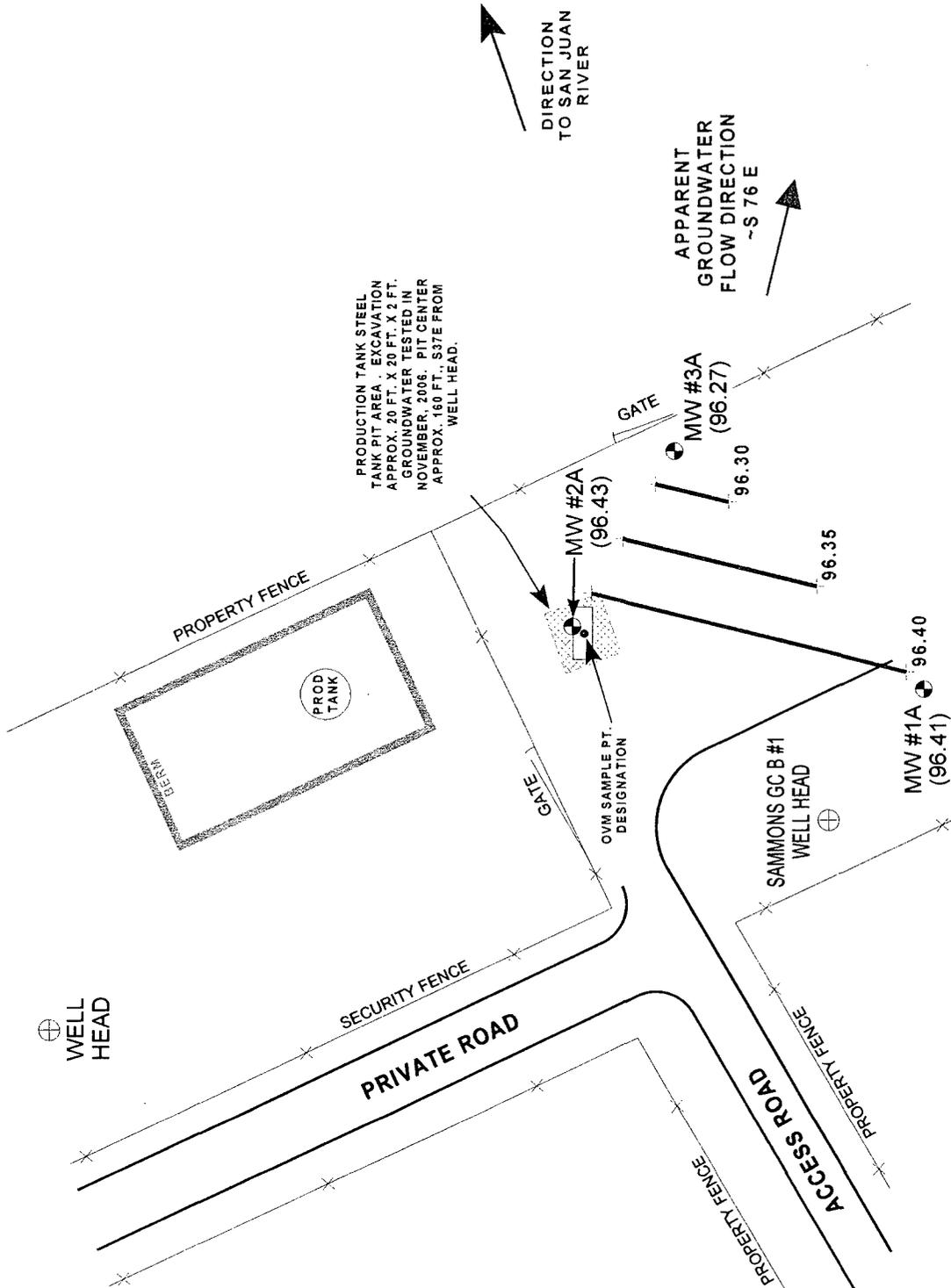
GROUNDWATER CONTOUR MAP
09/07



FIGURE 4
(4th 1/4, 2007)

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

	Top of Well Elevation
MW #1A	(102.05)
MW #2A	(100.26)
MW #3A	(99.78)
⊕ MW #1A (96.41)	Groundwater Elevation as of 12/03/07.



1 INCH = 40 FT.



BP AMERICA PRODUCTION CO.
SAMMONS GC F # 1
NE/4 NE/4 SEC. 18, T29N, R9W
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: 12-03-07-GW.SKF
REVISED: 12-03-07

GROUNDWATER CONTOUR MAP
12/07

BLAGG ENGINEERING, INC.

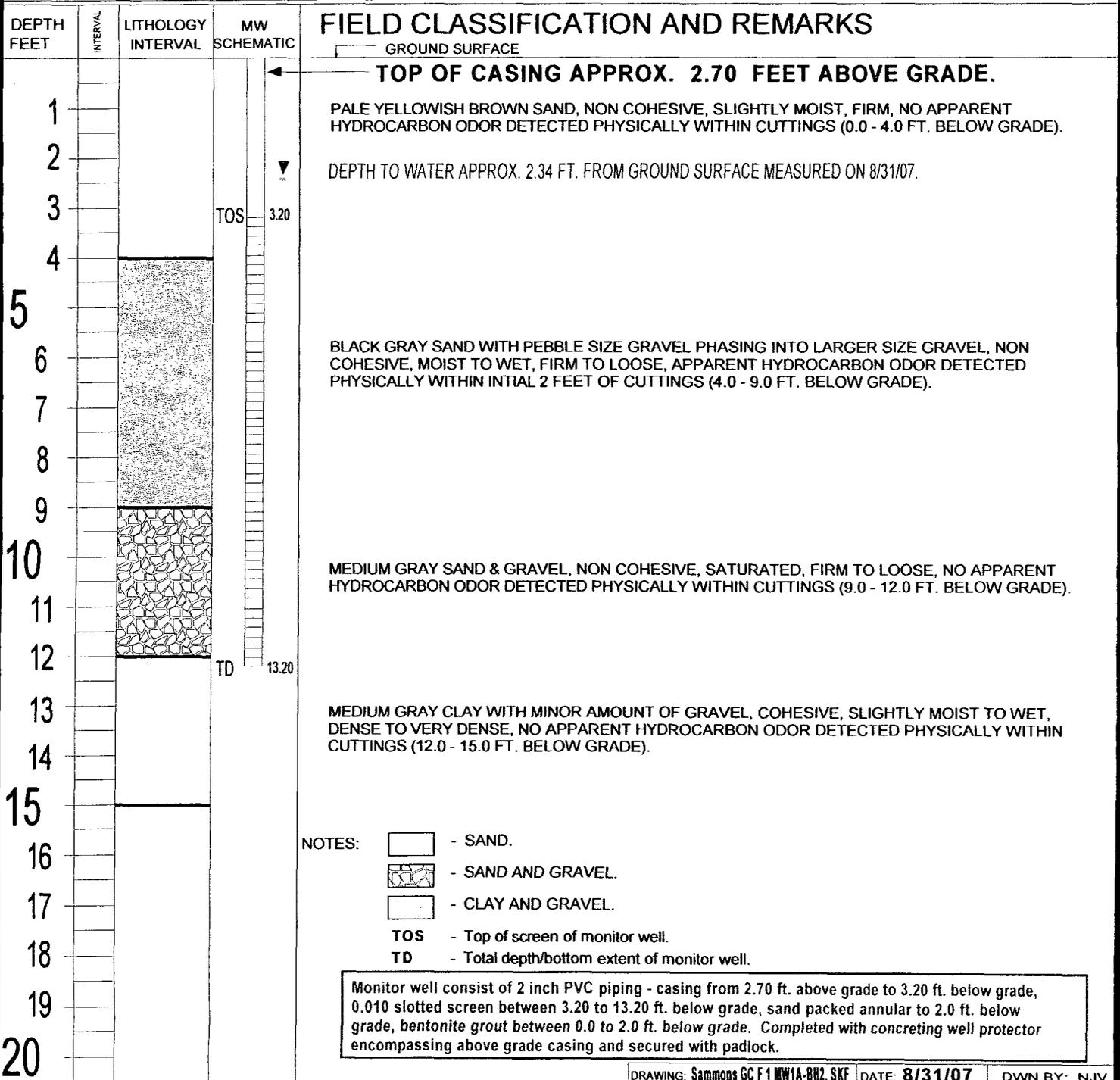
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #1A

BORE / TEST HOLE REPORT

BORING #.....	BH-2
MW #.....	1A
PAGE #.....	1
DATE STARTED	8/29/07
DATE FINISHED	8/29/07
OPERATOR.....	DP
PREPARED BY	NJV

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SAMMONS GC F #1 UNIT A, SEC. 18, T29N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	222 FT., S21E FROM WELL HEAD.



BLAGG ENGINEERING, INC.

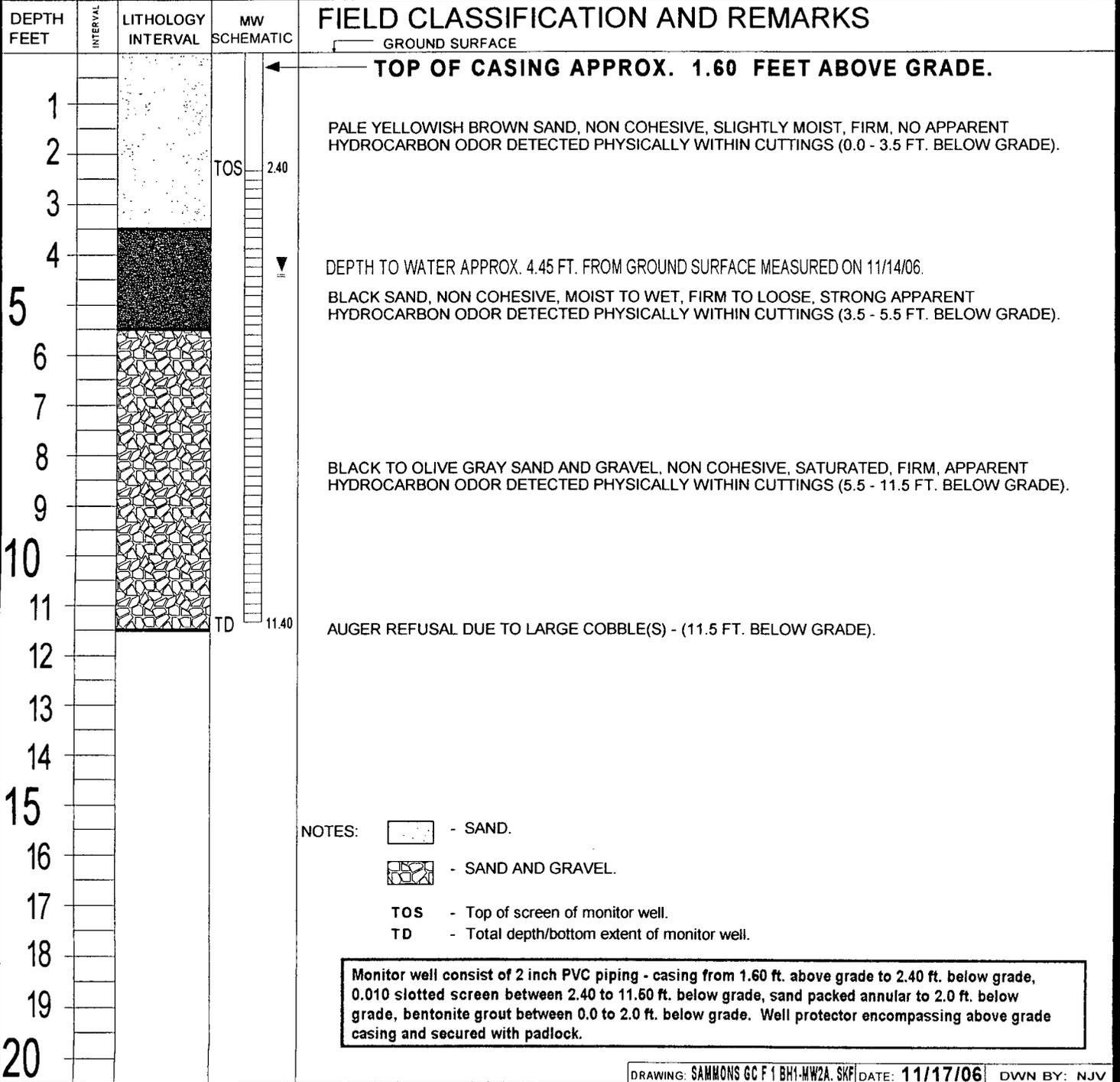
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2A

BORE / TEST HOLE REPORT

BORING #.....	BH-1
MW #.....	2A
PAGE #.....	1
DATE STARTED	11/01/06
DATE FINISHED	11/01/06
OPERATOR.....	DP
PREPARED BY	NJV

CLIENT:	BP AMERICA PRODUCTION CO.		
LOCATION NAME:	SAMMONS GC F #1	UNIT A, SEC. 18, T29N, R9W	
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.		
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)		
BORING LOCATION:	159 FT., S38E FROM WELL HEAD.		



BLAGG ENGINEERING, INC.

P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #3A

BORE / TEST HOLE REPORT

BORING #.....	BH-3
MW #.....	3A
PAGE #.....	3
DATE STARTED	8/29/07
DATE FINISHED	8/29/07
OPERATOR.....	DP
PREPARED BY	NJV

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	SAMMONS GC F #1 UNIT A, SEC. 18, T29N, R9W
CONTRACTOR:	BLAGG ENGINEERING, INC. / ENVIROTECH, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	201 FT., S42.5E FROM WELL HEAD.

DEPTH FEET	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
			GROUND SURFACE	
			← TOP OF CASING APPROX. 0.40 FEET BELOW GRADE.	
1				PALE YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 4.0 FT. BELOW GRADE).
2				
3				
4			TOS 3.35	
5				DEPTH TO WATER APPROX. 3.27 FT. FROM GROUND SURFACE MEASURED ON 8/31/07.
6				
7				
8				
9				OLIVE GRAY SAND & GRAVEL, NON COHESIVE, SATURATED, FIRM TO LOOSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (4.0 - 12.0 FT. BELOW GRADE).
10				
11				
12				
13			TD 13.35	MEDIUM GRAY CLAY WITH MINOR AMOUNT OF GRAVEL, COHESIVE, SLIGHTLY MOIST TO WET, DENSE TO VERY DENSE, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (12.0 - 15.0 FT. BELOW GRADE).
14				
15				
16				
17				NOTES: <input type="checkbox"/> - SAND. <input type="checkbox"/> - SAND AND GRAVEL. <input type="checkbox"/> - CLAY AND GRAVEL. TOS - Top of screen of monitor well. TD - Total depth/bottom extent of monitor well.
18				
19				
20				

Monitor well consist of 2 inch PVC piping - casing from 0.40 ft. to 3.35 ft. below grade, 0.010 slotted screen between 3.35 to 13.35 ft. below grade, sand packed annular to 2.0 ft. below grade, bentonite grout between 1.0 to 2.0 ft. below grade. Completed with concreting flush mount well protector encompassing 0.4 ft. of below grade casing and secured locking cap with padlock.

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A & 14716

**SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W**

LABORATORY (S) USED : HALL ENVIRONMENTAL
ENVIROTECH

Date : November 14, 2006

SAMPLER : N J V

Filename : 11-14-06.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.)
MW - 2A	-	-	6.05	13.00	1355	6.96	1,300	12.4	1.75

INSTRUMENT CALIBRATIONS =

7.00	2,800
------	-------

DATE & TIME =

11/14/06	0945
----------	------

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 . Black in appearance with strong hydrocarbon odor detected physically in purged water . Collected samples for BTEX and major anions / cations analyses .

Top of casing MW # 2 ~ 1.60 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Nov-06

CLIENT: Blagg Engineering
 Lab Order: 0611182
 Project: Sammons GC F#1
 Lab ID: 0611182-01

Client Sample ID: MW-2A
 Collection Date: 11/14/2006 1:55:00 PM
 Date Received: 11/15/2006
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	10	10		µg/L	10	11/20/2006 3:55:33 PM
Toluene	ND	10		µg/L	10	11/20/2006 3:55:33 PM
Ethylbenzene	14	10		µg/L	10	11/20/2006 3:55:33 PM
Xylenes, Total	1000	30		µg/L	10	11/20/2006 3:55:33 PM
Surr: 4-Bromofluorobenzene	104	70.2-105		%REC	10	11/20/2006 3:55:33 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

ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

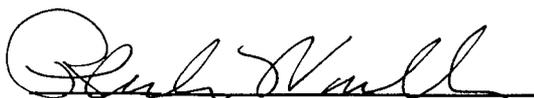
CATION / ANION ANALYSIS

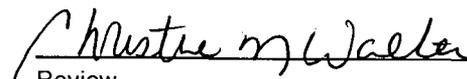
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2A	Date Reported:	11-17-06
Laboratory Number:	39152	Date Sampled:	11-14-06
Chain of Custody:	14716	Date Received:	11-14-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	11-15-06
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		
pH	7.18	s.u.		
Conductivity @ 25° C	1,280	umhos/cm		
Total Dissolved Solids @ 180C	904	mg/L		
Total Dissolved Solids (Calc)	901	mg/L		
SAR	2.2	ratio		
Total Alkalinity as CaCO3	800	mg/L		
Total Hardness as CaCO3	537	mg/L		
Bicarbonate as HCO3	800	mg/L	13.11	meq/L
Carbonate as CO3	<0.1	mg/L	0.00	meq/L
Hydroxide as OH	<0.1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.4	mg/L	0.01	meq/L
Nitrite Nitrogen	0.024	mg/L	0.00	meq/L
Chloride	82.0	mg/L	2.31	meq/L
Fluoride	1.52	mg/L	0.08	meq/L
Phosphate	0.9	mg/L	0.03	meq/L
Sulfate	21.3	mg/L	0.44	meq/L
Iron	3.08	mg/L	0.11	meq/L
Calcium	146	mg/L	7.29	meq/L
Magnesium	41.9	mg/L	3.45	meq/L
Potassium	2.49	mg/L	0.06	meq/L
Sodium	119	mg/L	5.18	meq/L
Cations			15.97	meq/L
Anions			15.98	meq/L
Cation/Anion Difference			0.07%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Sammons GC F #1 Grab Sample.**


Analyst


Review

CHAIN-OF-CUSTODY RECORD

Client: BLAKE ENKR / BP AMERICA

Address: P.O. BOX 87

BLVD. NM 87413

Phone #: 632-1199

Fax #:

GA/GC Package:

Std

Level 4

Other:

Project Name:

SAMMONS GC F # 1

Project #:

216

Project Manager:

NV

Sampler:

NV

Sample Temperature:

10

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂

HNO₃

HEAL No.

11/14/06

1355

WATER

MW # 2A

2-40 ml

061118Z

Analysis Request	Remarks
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)	
RCA 8 Metals	
Anions (F, Cl, NO ₂ , NO ₃ , PO ₄ , SO ₄)	
8081 Pesticides / PCB's (8082)	
82608 (VOA)	
8270 (Semi-VOA)	
Air Bubbles or Headspace (Y or N)	

Date:

11/14/06

Time:

1700

Relinquished By: (Signature)

[Signature]

Received By: (Signature)

[Signature]

11/15/06

931

Remarks:

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Sammons GC F#1

Work Order: 0611182

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML RB MBLK Batch ID: R21507 Analysis Date: 11/20/2006 9:02:19 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: R21507 Analysis Date: 11/20/2006 9:00:08 PM

Benzene	19.19	µg/L	1.0	96.0	85.9	113			
Toluene	19.47	µg/L	1.0	97.4	86.4	113			
Ethylbenzene	19.22	µg/L	1.0	96.1	83.5	118			
Xylenes, Total	39.98	µg/L	3.0	100	83.4	122			

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 2 / 3 recovery outside accepted recovery limits |

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

11/15/2006

Work Order Number 0611182

Received by TLS

Checklist completed by

Jamye Shomic
Signature

Nov 15, 06
Date

Matrix

Carrier name Courier

- 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? **1°** 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

**SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W**

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : February 26, 2007

SAMPLER : NJV

Filename : 02-26-07.WK4

PROJECT MANAGER : NJV

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 2A	-	-	5.92	13.00	1155	6.91	1,500	11.9	1.75

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	02/21/07	0845

NOTES : Volume of water purged from well prior to sampling: $V = \pi \times r^2 \times h \times 7.48 \text{ gal./ft}^3 \times 3 \text{ (wellbores)}$
 (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 . Black in appearance with strong hydrocarbon odor detected physically in purged water . Collected sample for BTEX analysis .

Top of casing MW # 2 ~ 1.60 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 02-Mar-07

CLIENT: Blagg Engineering
 Lab Order: 0702364
 Project: Sammons GC F #1
 Lab ID: 0702364-01

Client Sample ID: MW #2A
 Collection Date: 2/26/2007 11:55:00 AM
 Date Received: 2/28/2007
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	10		µg/L	10	3/1/2007 1:58:27 PM
Toluene	ND	10		µg/L	10	3/1/2007 1:58:27 PM
Ethylbenzene	ND	10		µg/L	10	3/1/2007 1:58:27 PM
Xylenes, Total	670	20		µg/L	10	3/1/2007 1:58:27 PM
Surr: 4-Bromofluorobenzene	93.4	70.2-105		%REC	10	3/1/2007 1:58:27 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: Sammons GC F #1

Work Order: 0702364

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: RB-II *MBLK* **Batch ID:** R22664 **Analysis Date:** 3/2/2007 2:07:52 AM

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						

Sample ID: 100NG BTEX LCS-II *LCS* **Batch ID:** R22664 **Analysis Date:** 3/2/2007 2:37:53 AM

Benzene	20.24	µg/L	1.0	101	85.9	113			
Toluene	20.31	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.41	µg/L	1.0	102	83.5	118			
Xylenes, Total	62.18	µg/L	2.0	104	83.4	122			

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:

2/28/2007

Work Order Number 0702364

Received by TLS

Checklist completed by

Jimmy J...
Signature

Feb 28, 07
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 - 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

SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : May 22, 2007

SAMPLER : N J V

Filename : 05-22-07.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.)
2A	-	-	3.86	13.00	1115	6.78	900	20.3	4.50

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	05/08/07	0740

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 "

Excellent recovery . Light blackish tint in appearance with slight hydrocarbon odor detected physically in purged water . Collected sample for BTEX analysis .

Top of casing MW # 2 ~ 1.60 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 31-May-07

CLIENT: Blagg Engineering
 Lab Order: 0705357
 Project: Sammons GC F #1
 Lab ID: 0705357-01

Client Sample ID: MW #2A
 Collection Date: 5/22/2007 11:15:00 PM
 Date Received: 5/23/2007
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	14	1.0		µg/L	1	5/30/2007 3:01:19 PM
Toluene	ND	1.0		µg/L	1	5/30/2007 3:01:19 PM
Ethylbenzene	ND	1.0		µg/L	1	5/30/2007 3:01:19 PM
Xylenes, Total	270	10		µg/L	5	5/30/2007 2:31:08 PM
Surr: 4-Bromofluorobenzene	94.0	70.2-105		%REC	1	5/30/2007 3:01:19 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: Sammons GC F #1

Work Order: 0705357

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: SW8021

Sample ID: 5ML REAGENT BLA MBLK Batch ID: R23774 Analysis Date: 5/29/2007 8:19:53 AM

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						

Sample ID: 5ML REAGENT BLA MBLK Batch ID: R23777 Analysis Date: 5/30/2007 8:56:15 AM

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						

Sample ID: 100NG BTEX LCS LCS Batch ID: R23774 Analysis Date: 5/29/2007 9:40:18 PM

Benzene	19.41	µg/L	1.0	97.1	85.9	113			
Toluene	19.59	µg/L	1.0	97.9	86.4	113			
Ethylbenzene	19.63	µg/L	1.0	98.2	83.5	118			
Xylenes, Total	58.61	µg/L	2.0	97.7	83.4	122			

Sample ID: 100NG BTEX LCS LCS Batch ID: R23777 Analysis Date: 5/30/2007 4:01:34 PM

Benzene	20.06	µg/L	1.0	100	85.9	113			
Toluene	20.41	µg/L	1.0	102	86.4	113			
Ethylbenzene	20.36	µg/L	1.0	102	83.5	118			
Xylenes, Total	61.34	µg/L	2.0	102	83.4	122			

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:

5/23/2007

Work Order Number 0705357

Received by TLS

Checklist completed by

[Handwritten Signature]
Signature

5/23/07
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 _____

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

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

**SAMMONS GC F # 1 - PROD. TANK PIT
 UNIT A, SEC. 18, T29N, R9W**

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : August 16, 2007

SAMPLER : N J V

Filename : 08-16-07.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.)
2A	-	-	5.12	13.00	1150	6.73	1,200	28.2	2.50

INSTRUMENT CALIBRATIONS =

7.00	2,800
------	-------

 DATE & TIME =

08/15/07	0900
----------	------

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 "

Fair recovery . Light blackish tint in appearance with slight hydrocarbon odor detected physically in purged water . Collected sample for BTEX analysis .

Top of casing MW # 2 ~ 1.60 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 27-Aug-07

CLIENT: Blagg Engineering
 Lab Order: 0708246
 Project: Sammons GC F #1
 Lab ID: 0708246-01

Client Sample ID: MW #2A
 Collection Date: 8/16/2007 11:50:00 AM
 Date Received: 8/17/2007
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: SMP
Benzene	4.9	1.0		µg/L	1	8/23/2007 10:53:39 PM
Toluene	ND	1.0		µg/L	1	8/23/2007 10:53:39 PM
Ethylbenzene	7.8	1.0		µg/L	1	8/23/2007 10:53:39 PM
Xylenes, Total	2300	40		µg/L	20	8/24/2007 1:34:20 PM
Surr: 4-Bromofluorobenzene	98.1	70.2-105		%REC	20	8/24/2007 1:34:20 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: Black Ener. / BP America

Address: P.O. Box 87

Bldg. NM 87413

Phone #: 632-1199

Fax #:

Date: 8/16/07

Time: 1150

Matrix

water

Sample I.D. No.

MW # 2A

Number/Volume

2-40ml

Preservative

HgCl₂

HNO₃

✓

HEAL No.

U708246

Date: 8/16/07

Time: 1545

Relinquished By: [Signature]

Time: 1545

Received By: [Signature]

Time: 8/20/07

Date:

Time:

Relinquished By: [Signature]

Received By: [Signature]

GA/QC Package:

Std

Level 4

Other:

Project Name:

Sammors GC F #1

Project #:

205

Project Manager:

NV

Sampler:

NV

Sample Temperature:

10

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

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 ₃ ⁻ , NO ₂ ⁻ , PO ₄ ³⁻ , SO ₄ ²⁻)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles or Headspace (Y or N)
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					

Remarks:

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Sammons GC F #1

Work Order: 0708246

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		<i>MBLK</i>				Batch ID: R24885	Analysis Date: 8/23/2007 9:10:07 AM		
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						
Sample ID: 5ML RB		<i>MBLK</i>				Batch ID: R24905	Analysis Date: 8/24/2007 10:01:20 AM		
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						
Sample ID: B		<i>MBLK</i>				Batch ID: R24905	Analysis Date: 8/24/2007 6:25:38 PM		
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						
Sample ID: 100NG BTEX LCS		<i>LCS</i>				Batch ID: R24885	Analysis Date: 8/23/2007 2:37:33 PM		
Benzene	17.77	µg/L	1.0	88.9	85.9	113			
Toluene	17.37	µg/L	1.0	86.9	86.4	113			
Ethylbenzene	18.05	µg/L	1.0	90.2	83.5	118			
Xylenes, Total	54.72	µg/L	2.0	90.9	83.4	122			
Sample ID: 100NG BTEX LCS		<i>LCS</i>				Batch ID: R24905	Analysis Date: 8/24/2007 11:31:32 AM		
Benzene	17.89	µg/L	1.0	89.4	85.9	113			
Toluene	17.92	µg/L	1.0	89.6	86.4	113			
Ethylbenzene	18.15	µg/L	1.0	90.3	83.5	118			
Xylenes, Total	54.67	µg/L	2.0	90.5	83.4	122			
Sample ID: 100NG BTEX LCS B		<i>LCS</i>				Batch ID: R24905	Analysis Date: 8/25/2007 11:02:46 PM		
Benzene	18.86	µg/L	1.0	94.3	85.9	113			
Toluene	19.72	µg/L	1.0	98.6	86.4	113			
Ethylbenzene	20.17	µg/L	1.0	100	83.5	118			
Xylenes, Total	62.26	µg/L	2.0	102	83.4	122			
Sample ID: 100NG BTEX LCSD		<i>LCSD</i>				Batch ID: R24885	Analysis Date: 8/23/2007 3:07:41 PM		
Benzene	18.32	µg/L	1.0	91.6	85.9	113	3.04	27	
Toluene	18.12	µg/L	1.0	90.6	86.4	113	4.23	19	
Ethylbenzene	18.75	µg/L	1.0	93.7	83.5	118	3.81	10	
Xylenes, Total	56.41	µg/L	2.0	93.7	83.4	122	3.04	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:

8/17/2007

Work Order Number 0708246

Received by TLS

Checklist completed by

Signature

8/17/07

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? 1° *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

SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: September 19, 2007

SAMPLER: N J V

Filename: 09-19-07.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.)
1A	102.05	96.80	5.25	15.00	1230	6.86	700	27.2	4.75
2A	102.01	96.77	5.24	13.00	-	-	-	-	-
3A	99.76	96.65	3.11	13.50	1300	6.74	900	27.6	5.00

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	09/17/07	0945

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 $r = (1/12) \text{ ft. } h = 1 \text{ ft.}$) (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 "

Excellent recovery in MW # 1A , # 3A , both murky brown in appearance , hydrocarbon odor detected physically in MW # 1A only , collected BTEX , anions , iron , pH , TDS samples from MW # 1A , & # 3A .

Top of casing MW # 1A ~ 2.40 ft. , MW # 2A ~ 1.60 ft. above grade , MW # 3A ~ 0.35 ft. below grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Oct-07

CLIENT: Blagg Engineering
Lab Order: 0709294
Project: Sammons GC F #1
Lab ID: 0709294-01

Client Sample ID: MW #1A
Collection Date: 9/19/2007 12:30:00 PM
Date Received: 9/21/2007
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/28/2007 9:57:16 PM
Toluene	ND	1.0		µg/L	1	9/28/2007 9:57:16 PM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2007 9:57:16 PM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2007 9:57:16 PM
Surr: 4-Bromofluorobenzene	94.7	70.2-105		%REC	1	9/28/2007 9:57:16 PM
EPA METHOD 300.0: ANIONS						Analyst: KS
Fluoride	0.42	0.10		mg/L	1	10/9/2007 6:02:59 PM
Chloride	5.2	0.10		mg/L	1	10/9/2007 6:02:59 PM
Nitrogen, Nitrite (As N)	ND	0.10	H	mg/L	1	10/9/2007 6:02:59 PM
Bromide	ND	0.10		mg/L	1	10/9/2007 6:02:59 PM
Nitrogen, Nitrate (As N)	ND	0.10	H	mg/L	1	10/9/2007 6:02:59 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/9/2007 6:02:59 PM
Sulfate	89	5.0		mg/L	10	10/9/2007 6:20:24 PM
FERROUS IRON						Analyst: KS
Ferrous Iron	ND	0.10		mg/L	1	10/1/2007
SM4500-H+B: PH						Analyst: SMP
pH	7.12	0.1		pH units	1	9/24/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	1000	400		mg/L	1	9/21/2007

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		

Hall Environmental Analysis Laboratory, Inc.

Date: 10-Oct-07

CLIENT: Blagg Engineering
 Lab Order: 0709294
 Project: Sammons GC F #1
 Lab ID: 0709294-02

Client Sample ID: MW #3A
 Collection Date: 9/19/2007 1:00:00 PM
 Date Received: 9/21/2007
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	9/28/2007 10:27:09 PM
Toluene	ND	1.0		µg/L	1	9/28/2007 10:27:09 PM
Ethylbenzene	ND	1.0		µg/L	1	9/28/2007 10:27:09 PM
Xylenes, Total	ND	2.0		µg/L	1	9/28/2007 10:27:09 PM
Surr: 4-Bromofluorobenzene	85.7	70.2-105		%REC	1	9/28/2007 10:27:09 PM
EPA METHOD 300.0: ANIONS						Analyst: KS
Fluoride	1.0	0.10		mg/L	1	10/9/2007 6:37:48 PM
Chloride	15	0.10		mg/L	1	10/9/2007 6:37:48 PM
Nitrogen, Nitrite (As N)	ND	0.10	H	mg/L	1	10/9/2007 6:37:48 PM
Bromide	0.14	0.10		mg/L	1	10/9/2007 6:37:48 PM
Nitrogen, Nitrate (As N)	ND	0.10	H	mg/L	1	10/9/2007 6:37:48 PM
Phosphorus, Orthophosphate (As P)	ND	0.50	H	mg/L	1	10/9/2007 6:37:48 PM
Sulfate	24	0.50		mg/L	1	10/9/2007 6:37:48 PM
FERROUS IRON						Analyst: KS
Ferrous Iron	0.44	0.10		mg/L	1	10/1/2007
SM4500-H+B: PH						Analyst: SMP
pH	7.02	0.1		pH units	1	9/24/2007
SM 2540C: TDS						Analyst: TAF
Total Dissolved Solids	95	20		mg/L	1	9/21/2007

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: Sammons GC F #1

Work Order: 0709294

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: E300

Sample ID: MBLK 100907A MBLK Batch ID: R25489 Analysis Date: 10/9/2007 9:55:33 AM

Fluoride	ND	mg/L	0.10
Chloride	ND	mg/L	0.10
Nitrogen, Nitrite (As N)	ND	mg/L	0.10
Bromide	ND	mg/L	0.10
Nitrogen, Nitrate (As N)	ND	mg/L	0.10
Phosphorus, Orthophosphate (As P)	ND	mg/L	0.50
Sulfate	ND	mg/L	0.50

Sample ID: LCS ST300-07058 1 LCS Batch ID: R25489 Analysis Date: 10/9/2007 10:12:57 AM

Fluoride	0.5249	mg/L	0.10	105	90	110
Chloride	4.961	mg/L	0.10	99.2	90	110
Nitrogen, Nitrite (As N)	0.9548	mg/L	0.10	95.5	90	110
Bromide	2.585	mg/L	0.10	103	90	110
Nitrogen, Nitrate (As N)	2.549	mg/L	0.10	102	90	110
Phosphorus, Orthophosphate (As P)	5.320	mg/L	0.50	106	90	110
Sulfate	10.35	mg/L	0.50	103	90	110

Method: SW8021

Sample ID: 5ML RB MBLK Batch ID: R25381 Analysis Date: 9/28/2007 8:53:47 AM

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

Sample ID: 100NG BTEX LCS LCS Batch ID: R25381 Analysis Date: 9/28/2007 10:54:15 AM

Benzene	20.62	µg/L	1.0	103	85.9	113
Toluene	20.93	µg/L	1.0	104	86.4	113
Ethylbenzene	20.92	µg/L	1.0	105	83.5	118
Xylenes, Total	63.02	µg/L	2.0	105	83.4	122

Method: E160.1

Sample ID: MB-13906 MBLK Batch ID: 13906 Analysis Date: 9/21/2007

Total Dissolved Solids	ND	mg/L	20
------------------------	----	------	----

Sample ID: LCS-13906 LCS Batch ID: 13906 Analysis Date: 9/21/2007

Total Dissolved Solids	1018	mg/L	20	100	80	120
------------------------	------	------	----	-----	----	-----

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:

9/21/2007

Work Order Number 0709294

Received by AT

Checklist completed by

Ann D
Signature

9/21/07
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?

23°

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

SAMMONS GC F # 1 - PROD. TANK PIT
UNIT A, SEC. 18, T29N, R9W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : December 3, 2007

SAMPLER : N J V

Filename : 12-06-07.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.)
1A	102.05	96.41	5.64	15.00	-	-	-	-	-
2A	100.26	96.43	3.83	11.22	1030	7.12	1,200	11.2	2.00
3A	99.76	96.27	3.49	13.50	1015	7.11	900	8.9	5.00

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	11/28/07	1410

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"

MW # 2A casing and protector found damaged on 11/29/07. Repaired casing and cleaned out MW # 2A on 11/30/07 using air compressor. Installed flush mounted well cover. MW tops resurveyed on 12/3/07. Excellent recovery in MW # 3A, fair recovery in MW # 2A. Collected samples from MW # 2A & # 3A for BTEX analysis only.

Top of casing MW # 1A ~ 2.40 ft., MW # 2A ~ 0.20 ft. below grade, MW # 3A ~ 0.35 ft. below grade.

Hall Environmental Analysis Laboratory, Inc.

Date: 06-Dec-07

CLIENT: Blagg Engineering
Project: Sammons GC F #1

Lab Order: 0712027

Lab ID: 0712027-01

Collection Date: 12/3/2007 10:30:00 AM

Client Sample ID: MW #2A

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	3.7	1.0		µg/L	1	12/5/2007 7:42:27 PM
Toluene	3.4	1.0		µg/L	1	12/5/2007 7:42:27 PM
Ethylbenzene	2.1	1.0		µg/L	1	12/5/2007 7:42:27 PM
Xylenes, Total	1200	40		µg/L	20	12/5/2007 7:12:18 PM
Surr: 4-Bromofluorobenzene	97.2	70.2-105		%REC	20	12/5/2007 7:12:18 PM

Lab ID: 0712027-02

Collection Date: 12/3/2007 10:15:00 AM

Client Sample ID: MW #3A

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	12/5/2007 9:14:03 PM
Toluene	ND	1.0		µg/L	1	12/5/2007 9:14:03 PM
Ethylbenzene	ND	1.0		µg/L	1	12/5/2007 9:14:03 PM
Xylenes, Total	ND	2.0		µg/L	1	12/5/2007 9:14:03 PM
Surr: 4-Bromofluorobenzene	90.1	70.2-105		%REC	1	12/5/2007 9:14:03 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: BRASS ENGR. / BP AMERICA

Address: P.O. BOX 87

BLFD. NM 87413

Phone #: 632-1199

Fax #:

Date: 12/03/07

Time: 1030

Matrix: WATER

Sample I.D. No. MW #2A

Number/Volume: 2-40ml

Preservative: HNO₃

HEAL No. 0710007

12/03/07

1015

WATER

MW #3A

2-40ml

HNO₃

2

Time: 1630

Relinquished By: (Signature) [Signature]

Received By: (Signature) [Signature]

Date: 12/03/07

Relinquished By: (Signature) [Signature]

Received By: (Signature) [Signature]

1530

GA / QC Package:

Std Level 4

Other:

Project Name:

SAMMONS GC F #1

Project #:

91V

Project Manager:

NV

Sampler:

NV

Sample Temperature:

10

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, NO₂, NO₃, PO₄, SO₄)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

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

Remarks:

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Sammons GC F #1

Work Order: 0712027

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
---------	--------	-------	-----	------	----------	-----------	------	----------	------

Method: EPA Method 8021B: Volatiles

Sample ID: 5ML RB MBLK Batch ID: R26381 Analysis Date: 12/5/2007 8:29:31 AM

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						

Sample ID: 100NG BTEX LCS LCS Batch ID: R26381 Analysis Date: 12/5/2007 11:44:35 PM

Benzene	19.64	µg/L	1.0	98.2	85.9	113			
Toluene	19.43	µg/L	1.0	96.6	86.4	113			
Ethylbenzene	19.64	µg/L	1.0	98.2	83.5	118			
Xylenes, Total	59.27	µg/L	2.0	98.8	83.4	122			

Sample ID: 100NG BTEX LCSD LCSD Batch ID: R26381 Analysis Date: 12/6/2007 12:14:45 AM

Benzene	20.41	µg/L	1.0	102	85.9	113	3.85	27	
Toluene	20.15	µg/L	1.0	100	86.4	113	3.66	19	
Ethylbenzene	20.53	µg/L	1.0	103	83.5	118	4.42	10	
Xylenes, Total	61.86	µg/L	2.0	103	83.4	122	4.28	13	

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 Received:

12/4/2007

Work Order Number 0712027

Received by: AT

Checklist completed by:

Jamie Shomin
Signature

12/4/07
Date

Sample ID labels checked by

TS
Initials

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?

1°

<6° C Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____