3R – 035

CLOSURE REQUEST

09 / 22 / 2010

3R035

BLAGG ENGINEERING, INC.
P.O. Box 87, Bloomfield, New Mexico 87413

September 22, 2010

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
Jones A LS # 3, Unit G, Sec. 15, T28N, R8W, NMPM
San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-35-0

Dear Mr. von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the Jones A LS # 3.

The last formal correspondence to NMOCD was conducted with letter dated, May 1, 2009. BP has followed its NMOCD approved groundwater management plan and is requesting permanent closure for this site.

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. Jeff Peace, Environmental Advisor, BP, Farmington, NM

NJV/njv JONES A LS 3 09-22-10 CVL.DOC

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

JONES A LS #3
(G) SECTION 15, T28N, R8W, NMPM
SAN JUAN COUNTY, NEW MEXICO

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

AUGUST 2010

PREPARED BY:
BLAGG ENGINEERING, INC.

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

BP AMERICA PRODUCTION COMPANY
JONES A LS # 3 - Dehydrator Pit
SW/4 NE/4, Sec. 15, T28N, R8W

Remediation via Excavation Date: 6/3/09

Monitor Well Installation Dates: 10/20/09 (MW # 2R)

Monitor Well Sampling Dates: 5/16/09, 10/26/09, 2/27/10, 5/11/10

Site History:

A site dehydrator pit closure was initiated in March 2003. Potential groundwater impact was identified within the source area via installation of a monitor well in May 2004 (MW #2). Documentation for this work and subsequent groundwater monitoring data for the site have previously been submitted for New Mexico Oil Conservation Division (**NMOCD**) review. The reporting herein is for site monitoring from May 2009 to May 2010.

Groundwater Monitor Well Sampling Procedures:

Each monitor well was developed by hand-bailing, using new disposable bailers after installation. Prior to sample collections, each monitor well was purged approximately three (3) well bore volumes with new disposable bailers. The groundwater samples were collected following US EPA: SW-846 protocol, were placed into laboratory supplied containers with appropriate preservative, and stored in an ice chest for express delivery to an analytical laboratory for testing under strict chain-of-custody procedures. Analytical testing for benzene, toluene, ethylbenzene, and total xylenes (**BTEX**) by US EPA Method 8021B or 8260 was conducted.

Fluids generated during monitor well development and purging were managed by discarding into the separator below-grade tank (BGT) located on the well site. The BGT contents were then disposed through approved NMOCD operational procedures for removal of produced fluids.

Soil and Groundwater Abatement:

On June 3, 2009, excavation of the source area was conducted using a trackhoe (Figure 2). Groundwater depth was recorded at approximately twelve (12) feet below surface grade during the removal of impacted soils. The excavation perimeter was measured at approximately 22 X 28 X 13 feet depth with approximately seven (7) feet of non-impacted overburden. Approximately 84 cubic yards of soil were removed and transported to BP's Crouch Mesa Facility.

MW #2R was installed on October 20, 2009 and quarterly sampling was initiated thereafter. Boring log of MW #2R along with its well completion information is contained within this report.

Groundwater Quality & Flow Direction Information:

MW #2R has tested below the New Mexico Water Quality Control Commission (**NMWQCC**) standards for four (4) consecutive sampling events. Down gradient delineation appears to have been achieved, based on test results of MW #3. A summary of BTEX laboratory analytical results is included within the table on the following page. Field data sheets, laboratory reports, and laboratory quality assurance/quality control information are also included.

Groundwater contour maps (Figure 3 through Figure 6) reveal the relative elevations from the site wells have consistently shown an apparent southwest flow direction toward MW #3.

Summary and/or Recommendations:

Hydrocarbon impacted soils and groundwater at the site appear to have been remediated via excavation. All site monitor wells tested at non-detectable or below NMWQCC's standards for BTEX for at least four (4) consecutive sampling events; therefore, meeting sections 2.1, 2.3, and 2.7 of BP's Groundwater Management Plan (GMP). Permanent site closure is recommended. Following approval by the NMOCD, site monitor wells will be abandoned pursuant to the approved GMP.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

JONES A LS # 3 - DEHY. PIT
UNIT G, SEC. 15, T28N, R8W

REVISED DATE: May 26, 2010

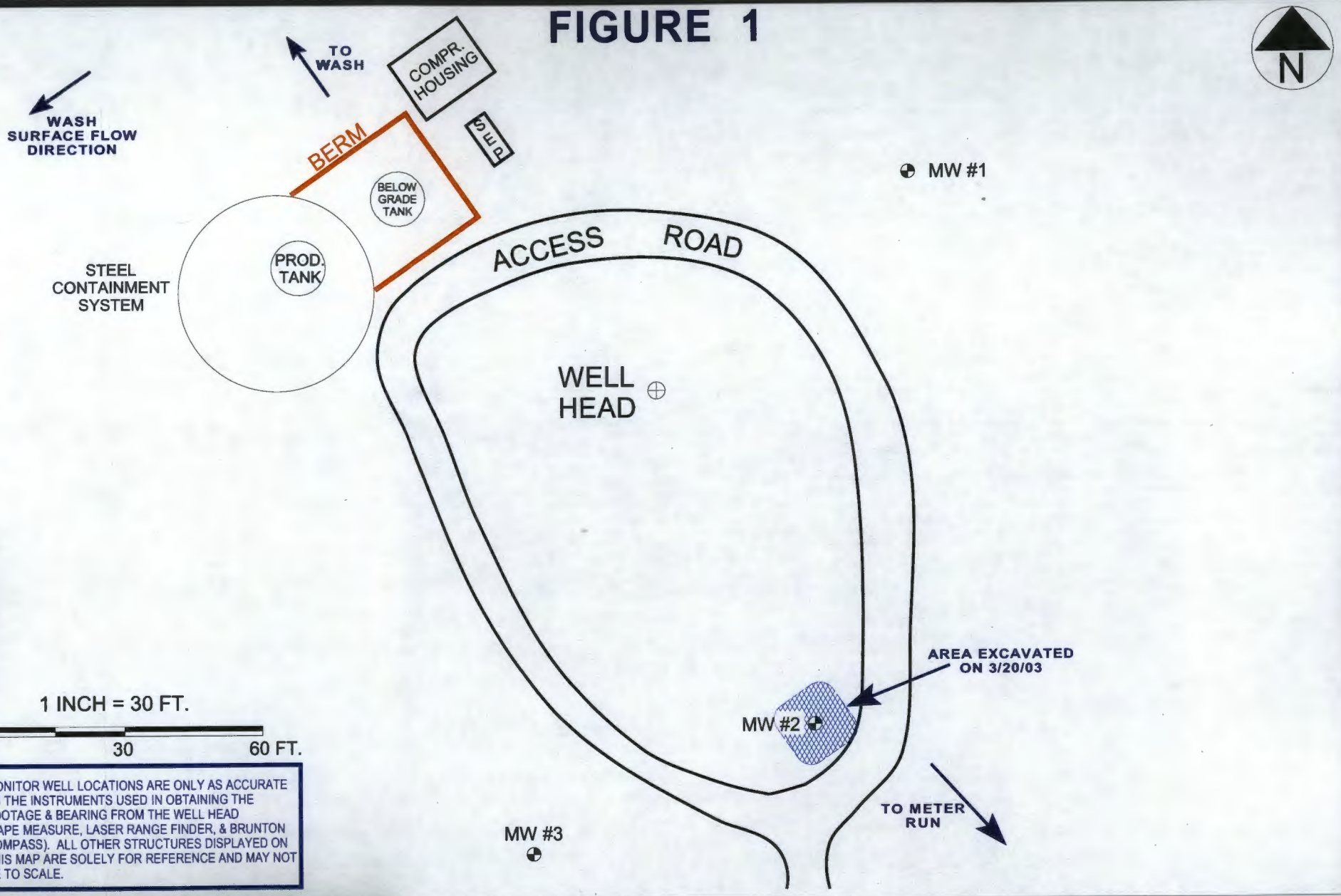
FILENAME: (J3-2Q10.WK4) NJV

								BTEX EPA METHOD 8021B (ppb)			
SAMPLE DATE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	pH	PRODUCT (ft)	Benzene	Toluene	Ethyl Benzene	Total Xylene
07-Jun-06	MW #1	11.04	20.00	828	1,100	7.08		ND	ND	ND	ND
23-Aug-06		11.34			900	7.15		ND	ND	ND	ND
14-Jun-04	MW #2	10.78	20.00		2,400	7.14		**290**	**780**	52	470
29-Dec-04		10.53			N/A	N/A		**7.8**	**11**	2.5	13
28-Mar-05		9.97			2,100	7.02		**720**	**4,800**	640	**6,800**
23-Jun-05		10.85			2,100	6.93		**140**	**220**	30	**570**
07-Jun-06		12.88	21.52	2,600	2,400	6.98		**32**	**11**	4.0	**17**
23-Aug-06		13.28			2,100	6.97		**9.9**	**ND**	1.2	**3.9**
16-Nov-06		12.25			2,400	6.96		**24**	**18**	4.9	**20**
25-Jan-07		11.01			900	7.34		**4.0**	**4.3**	1.4	**7.9**
25-Apr-07		12.05			2,300	7.06		**8.4**	**4.7**	2.2	**10**
19-Jul-07		13.15			2,200	6.91		**60**	**35**	7.3	**32**
09-Oct-07		11.98			2,200	6.95		**4.8**	**12**	3.7	**22**
01-Apr-08		11.45			2,300	7.01		**3.5**	**1.3**	1.7	**5.3**
26-Jun-08		12.19			1,400	7.21		**18**	**6.6**	5.3	**22**
25-Aug-08		13.01			2,100	7.04		**63**	**46**	14	**37**
16-May-09		11.70			1,100	7.55		**9.1**	**ND**	3.5	**4.2**
26-Oct-09		12.68			1,500	7.37		**9.9**	**ND**	13	**ND**
24-Feb-10		11.10			1,900	7.27		**ND**	**ND**	ND	**ND**
11-May-10		11.20			1,900	7.10		**ND**	**ND**	ND	**ND**
07-Jun-06	MW #3	12.59	20.06	2,310	2,300	7.00		ND	ND	ND	ND
23-Aug-06		13.01			1,900	7.03		ND	ND	ND	ND
16-Nov-06		11.94			2,000	6.98		1.1	ND	2.1	7.5
25-Jan-07		12.64			1,100	7.52		ND	ND	1.7	4.0
25-Apr-07		11.76			2,200	7.06		ND	ND	6.7	17
19-Jul-07		12.84			2,100	7.00		ND	ND	ND	ND
11-May-10		11.13			1,500	7.40		ND	ND	9.9	16
					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 PREVIOUS RESULTS IN BOLD RED TYPE EXCEEDED .**
3) **ND INDICATES NOT DETECTED AT THE REPORTING LIMITS (less than regulatory standards of at least a magnitude of 10).**
4) **NMWQCC INDICATES NEW MEXICO WATER QUALITY CONTROL COMMISSION.**

FIGURE 1



BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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

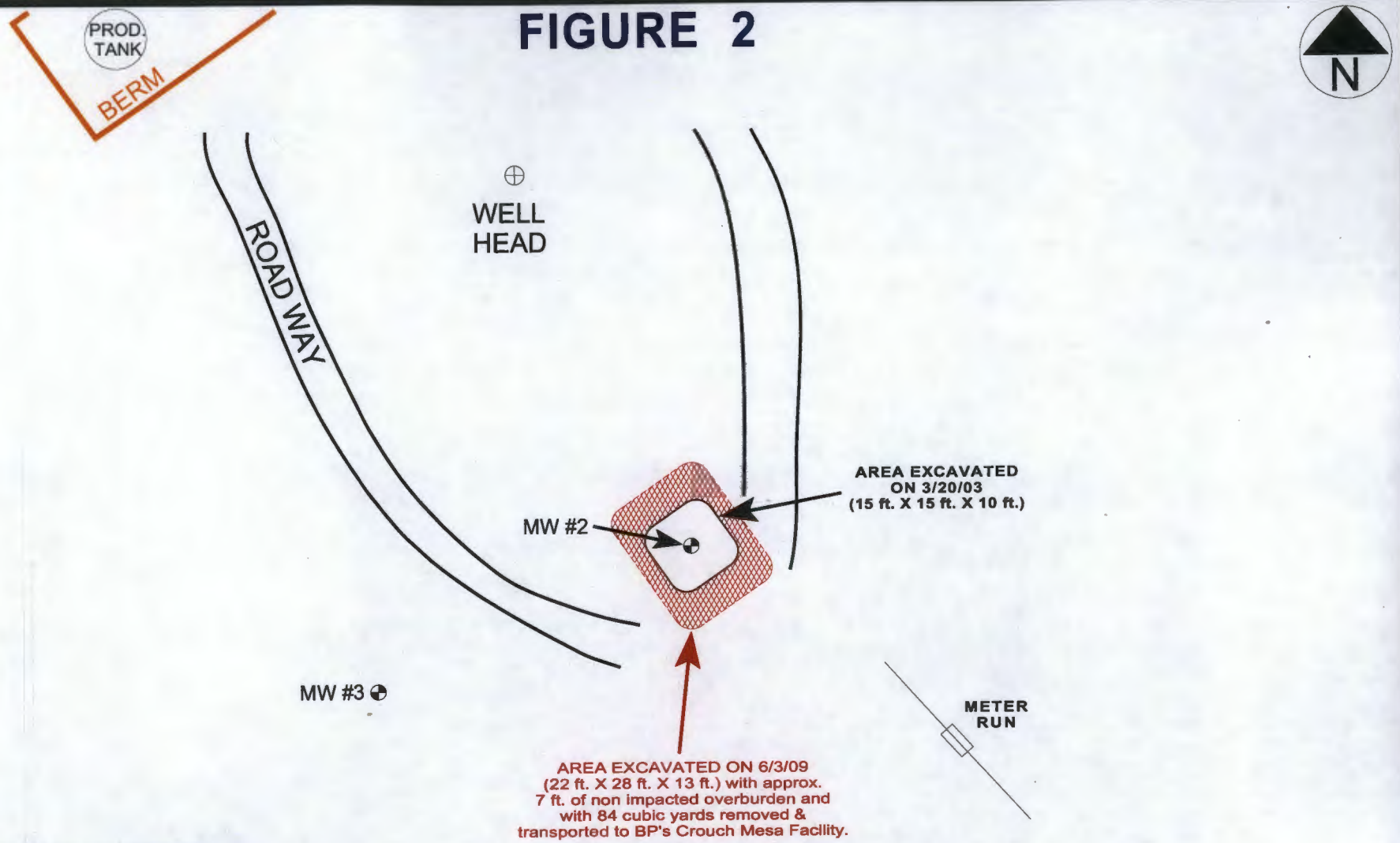
FILENAME: JONES A LS 3-SM2.SKF

REVISED: 08-04-10 NJV

SITE MAP

05/09

FIGURE 2



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 = 30 FT.

0 30 60 FT.

BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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: REMEDIATION

DRAWN BY: NJV

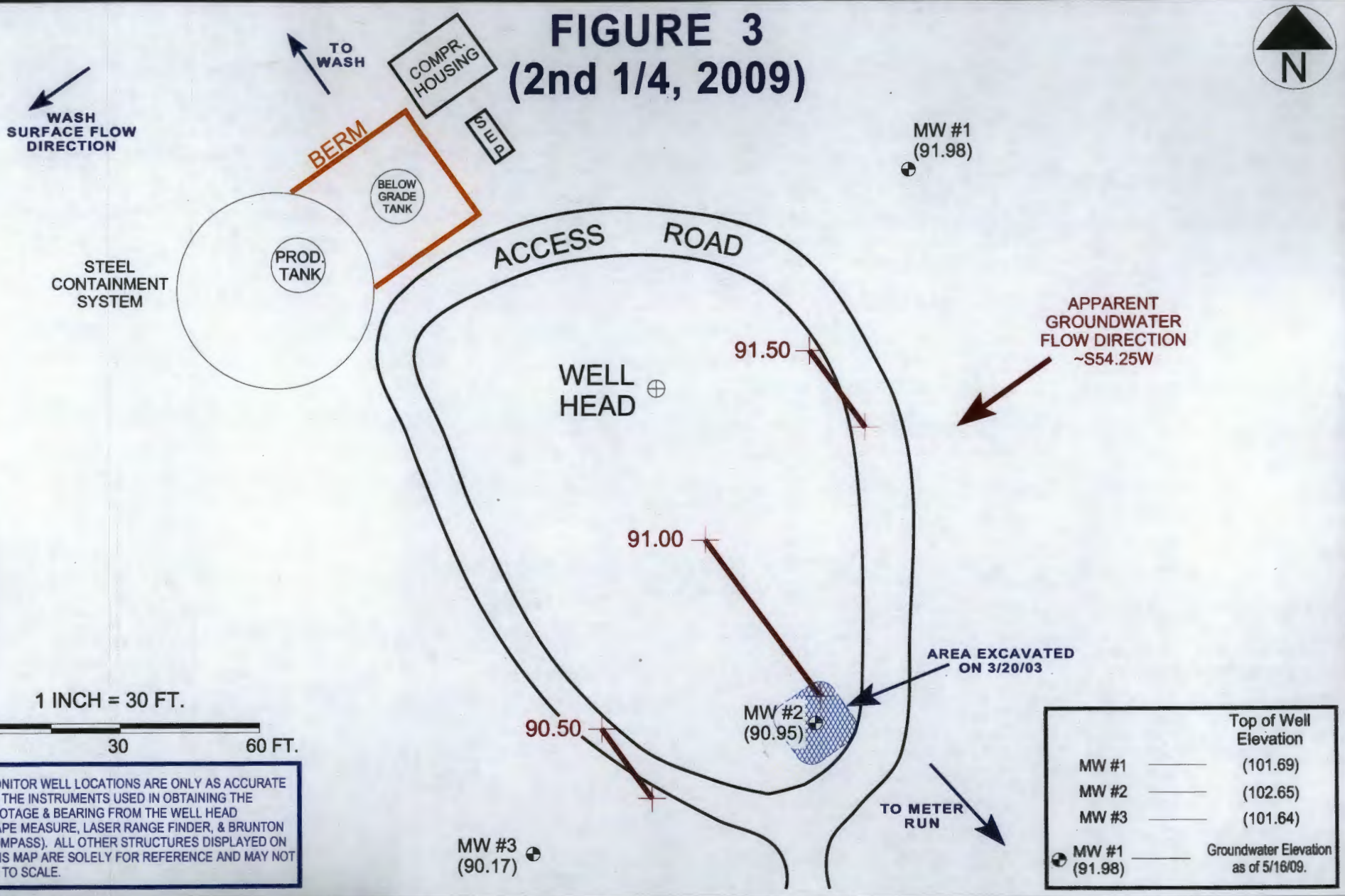
FILENAME: JONES A LS 3 -RM-1A.SKF

REVISED: 08-07-09 NJV

SOIL/GROUNDWATER REMEDIATION SCHEMATIC

06/09

FIGURE 3
(2nd 1/4, 2009)



BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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

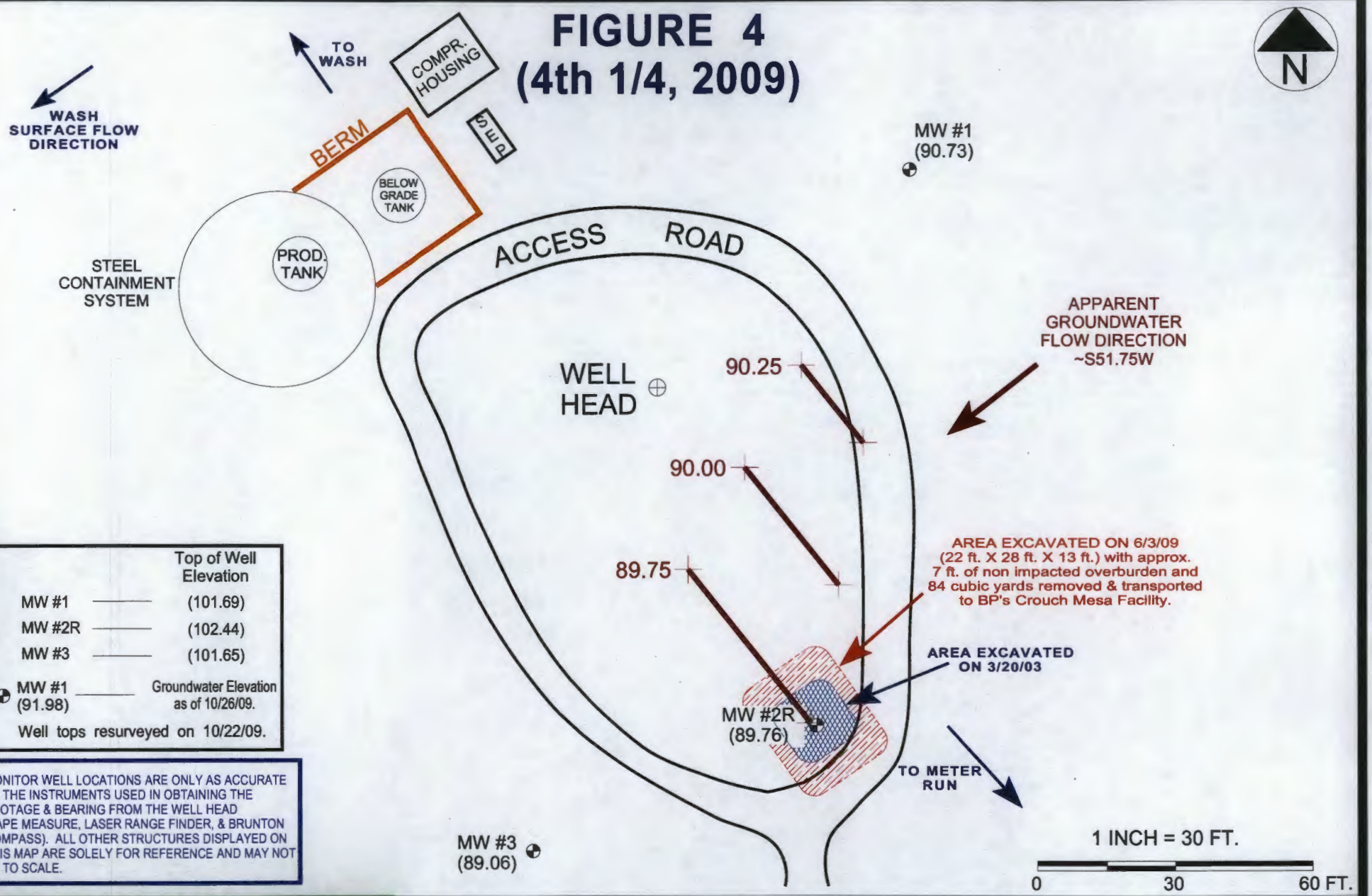
FILENAME: 05-16-09-GW.SKF

REVISED: 05-23-09 NJV

GROUNDWATER CONTOUR MAP

05/09

FIGURE 4
(4th 1/4, 2009)



	Top of Well Elevation
MW #1	(101.69)
MW #2R	(102.44)
MW #3	(101.65)

MW #1 (91.98) ——— Groundwater Elevation as of 10/26/09.

Well tops resurveyed on 10/22/09.

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.

BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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

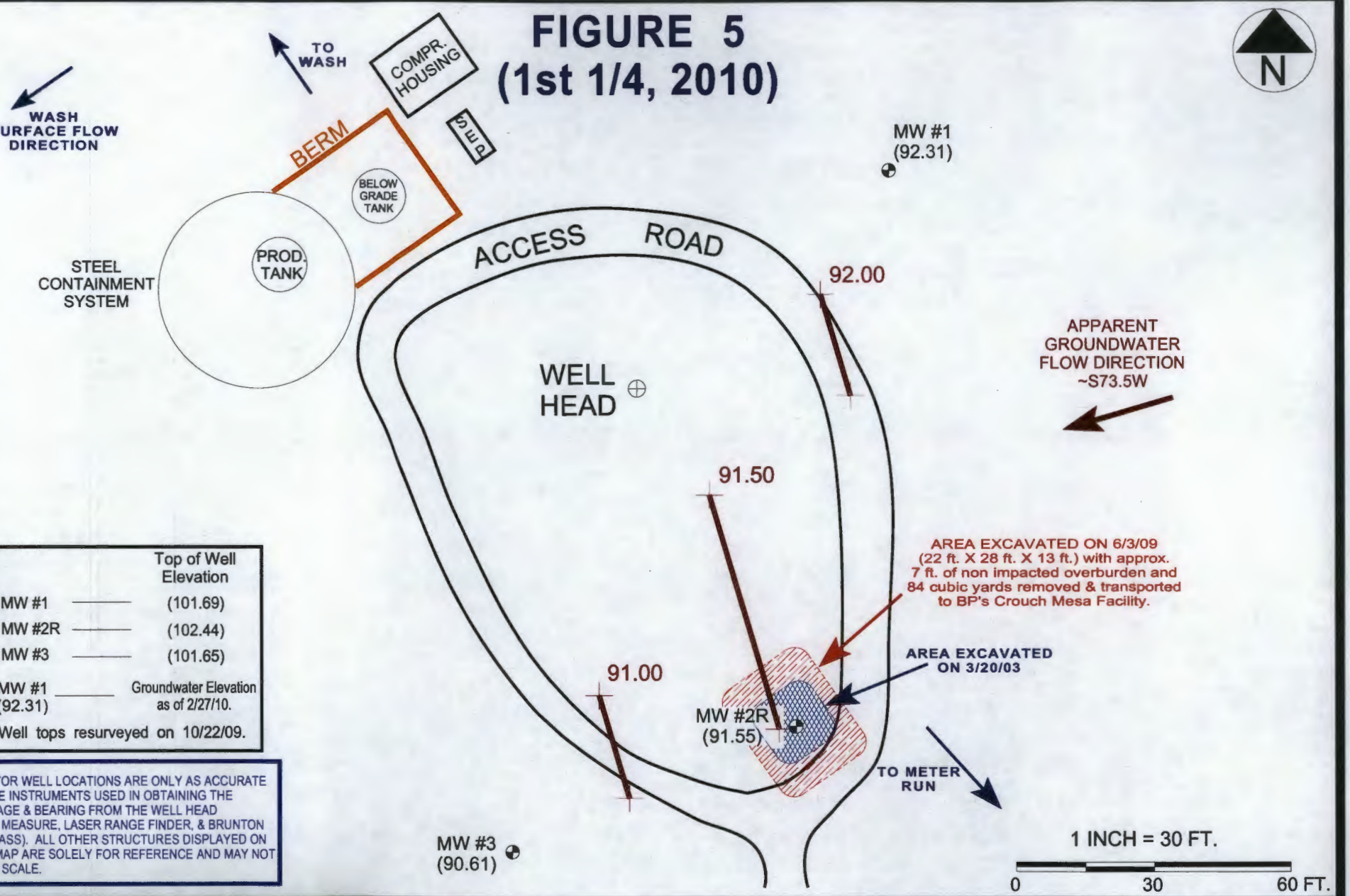
FILENAME: 10-26-09-GW.SKF

REVISED: 10-26-09 NJV

GROUNDWATER CONTOUR MAP

10/09

FIGURE 5
(1st 1/4, 2010)



	Top of Well Elevation
MW #1	(101.69)
MW #2R	(102.44)
MW #3	(101.65)
MW #1 (92.31)	Groundwater Elevation as of 2/27/10.

Well tops resurveyed on 10/22/09.

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.

BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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

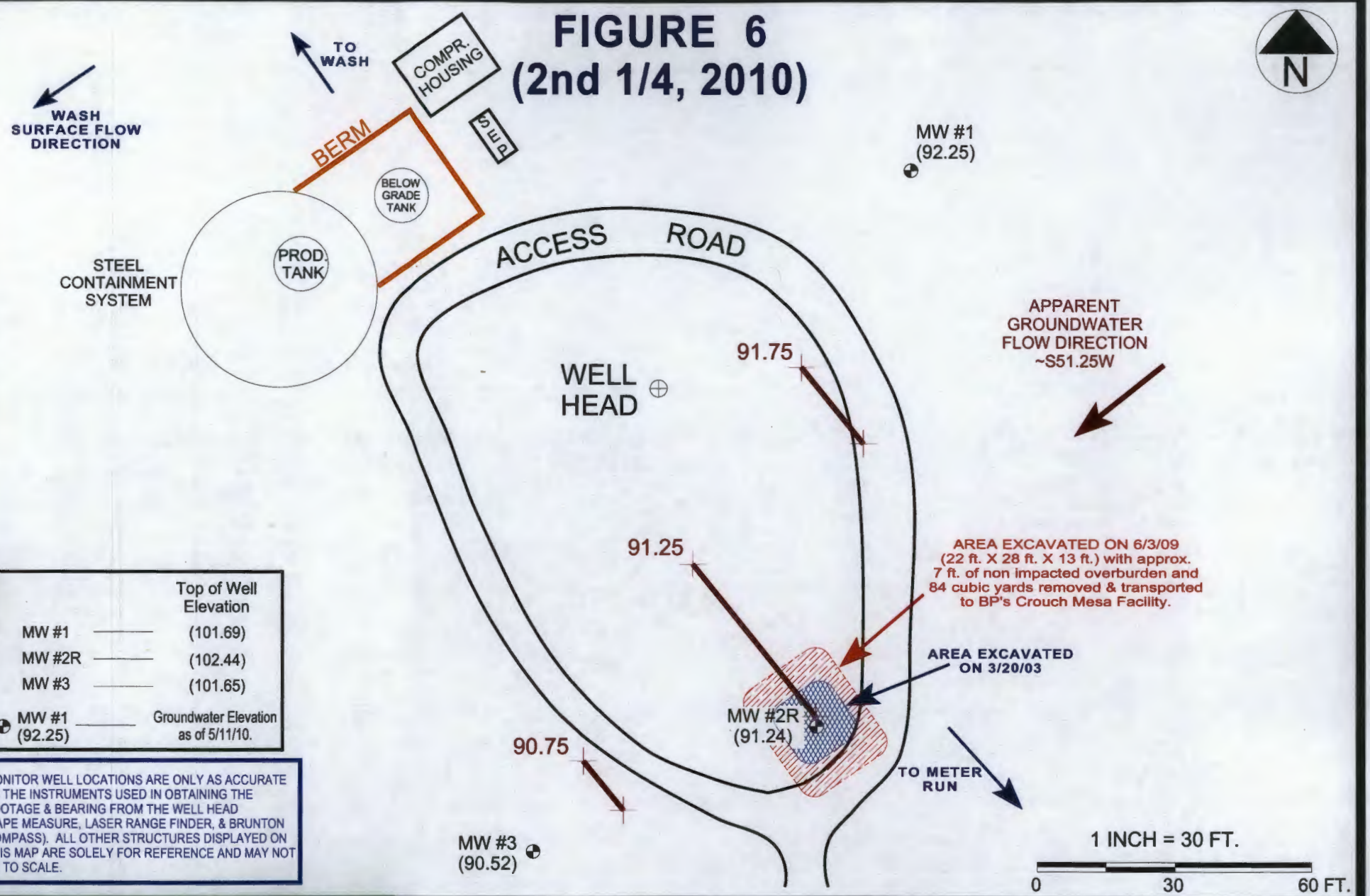
FILENAME: 02-27-10-GW.SKF

REVISED: 02-27-10 NJV

GROUNDWATER CONTOUR MAP

02/10

FIGURE 6
(2nd 1/4, 2010)



	Top of Well Elevation
MW #1	(101.69)
MW #2R	(102.44)
MW #3	(101.65)
MW #1 (92.25)	Groundwater Elevation as of 5/11/10.

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.

BP AMERICA PRODUCTION CO.

JONES A LS # 3

SW/4 NE/4 SEC. 15, T28N, R8W

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: 05-11-10-GW.SKF

REVISED: 05-11-10 NJV

GROUNDWATER CONTOUR MAP

05/10

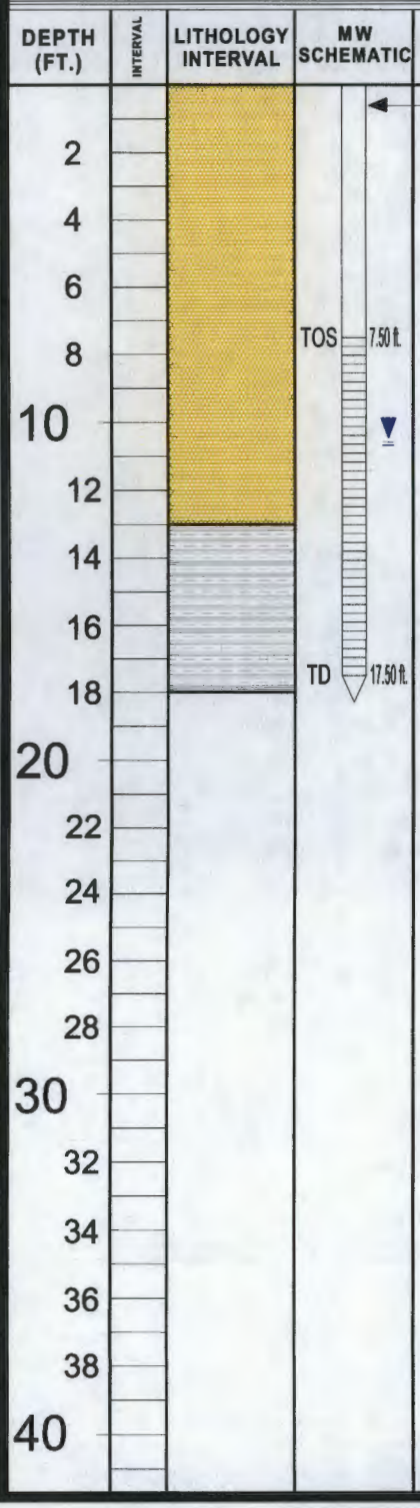
BLAGG ENGINEERING, Inc.
P.O. BOX 87
BLOOMFIELD, NM 87413
(505) 632-1199

MW #2R

BORE / TEST HOLE REPORT

CLIENT:	BP AMERICA PRODUCTION CO.
LOCATION NAME:	JONES A LS # 3 UNIT G, SEC. 15, T28N, R8W
CONTRACTOR:	BLAGG ENGINEERING, INC. / KYVEK ENERGY SERVICES, INC.
EQUIPMENT USED:	MOBILE DRILL RIG (CME 75)
BORING LOCATION:	82 FEET, S25E FROM WELL HEAD.

BORING #.....	BH - 4
MW #.....	2R
PAGE #.....	4
DATE STARTED	10/20/09
DATE FINISHED	10/20/09
OPERATOR.....	KP
PREPARED BY	NJV



FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.33 FEET ABOVE GRADE.

DARK YELLOWISH ORANGE TO MODERATE YELLOWISH BROWN SAND (FILL MATERIAL), NON COHESIVE, SLIGHTLY MOIST TO SATURATED, FIRM, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 13.0 FT. BELOW GRADE).

DEPTH TO WATER APPROX. 10.41 FT. FROM GROUND SURFACE MEASURED ON 10/23/09.

GRAYISH OLIVE SILTY CLAY, COHESIVE, MEDIUM PLASTIC, SATURATED, FIRM TO SLIGHTLY STIFF, NO APPARENT HYDROCARBON ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (13.0 - 18.0 FT. BELOW GRADE).

NOTES:
- SAND.
- SILTY CLAY.

TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

Monitor well consist of 2 inch PVC piping - casing from 2.33 ft. above grade to 7.50 ft. below grade, 0.010 slotted screen between 7.50 to 17.50 ft. below grade, sand packed annular to 5.5 ft. below grade, bentonite grout between 3.5 to 5.5 ft. below grade, clean fill dirt between 1.0 to 3.5 ft. below grade. Cemented well protector encompassing above grade casing and secured with padlock.

DRAWING: JONES A LS 3 MW2R-BH4. SKF | DATE: 11/23/09 | DWN BY: NJV

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD CO.

CHAIN-OF-CUSTODY # : N / A

JONES A LS # 3 - DEHY. PIT
UNIT G, SEC. 15, T28N, R8W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **May 16, 2009**

SAMPLER : N J V

Filename : **05-16-09.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 - 1	101.69	91.98	9.71	20.00	-	-	-	-	-
MW - 2	102.65	90.95	11.70	21.52	0815	7.55	1,100	13.1	4.75
MW - 3	101.64	90.17	11.47	20.06	-	-	-	-	-
					INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800		
					DATE & TIME =	05/16/09	0810		

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)
Ideally a minimum of three (3) wellbore volumes:
2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

Excellent recovery in MW # 2 . Collected sample for BTEX per US EPA Method 8021B from MW # 2 only .

Top of casing MW # 1 ~ 1.95 ft., MW # 2 ~ 3.00 ft., MW # 3 ~ 1.80 ft. above grade .

on-site	7:44	temp	56 F
off-site	8:26	temp	63 F
sky cond.	Partly cloudy		
wind speed	0 - 5	direct.	N

Hall Environmental Analysis Laboratory, Inc.

Date: *29-May-09*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2
Lab Order:	0905358	**Collection Date:**	5/16/2009 8:15:00 AM
Project:	Jones A LS #3	**Date Received:**	5/20/2009
Lab ID:	0905358-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **DAM**
Benzene	9.1	1.0		µg/L	1	5/28/2009 11:56:29 PM
Toluene	ND	1.0		µg/L	1	5/28/2009 11:56:29 PM
Ethylbenzene	3.5	1.0		µg/L	1	5/28/2009 11:56:29 PM
Xylenes, Total	4.2	2.0		µg/L	1	5/28/2009 11:56:29 PM
Surr: 4-Bromofluorobenzene	89.3	65.9-130		%REC	1	5/28/2009 11:56:29 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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

QA / QC Package: Std ☒ Level 4 ☐
Other:

Client: BLAGG ENGR. / BP AMERICA
Address: P.O. BOX 87
BLFD., NM 87413
Phone #: 632-1199
Fax #:

Project Name: JONES A LS #3
Project #: 9N
Project Manager: NELSON VELEZ
Sampler: NELSON VELEZ
Sample Temperature: 3.8

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

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HNO_3	Preservative HCl	HEAL No.	BTEX + MTBE + TMB's (8021B)	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_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles or Headspace (Y or N)
5/16/09	0815	WATER	MW #2	2-40ml			✓	0905358 -1	✓																

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
5/19/09	1425		5/20/09 8:20
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

Remarks:

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Jones A LS #3 **Work Order:** 0905358

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles									
Sample ID: 5ML RB		*MBLK*			Batch ID:	**R33871**	Analysis Date:		5/28/2009 8:39:43 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:	**R33871**	Analysis Date:		5/29/2009 3:29:31 AM
Benzene	20.76	µg/L	1.0	104	85.9	113			
Toluene	20.87	µg/L	1.0	102	86.4	113			
Ethylbenzene	21.00	µg/L	1.0	104	83.5	118			
Xylenes, Total	63.28	µg/L	2.0	105	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*			Batch ID:	**R33871**	Analysis Date:		5/29/2009 4:00:07 AM
Benzene	20.80	µg/L	1.0	104	85.9	113	0.183	27	
Toluene	20.71	µg/L	1.0	101	86.4	113	0.750	19	
Ethylbenzene	20.97	µg/L	1.0	104	83.5	118	0.152	10	
Xylenes, Total	62.85	µg/L	2.0	105	83.4	122	0.685	13	

Qualifiers:

E	Estimated value	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: 5/20/2009

Work Order Number 0905358 | Received by: TLS

Checklist completed by: _____ Signature 5/20/09 Date | Sample ID labels checked by: _____ Initials

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**3.8°**	*<6° C 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

JONES A LS # 3 - DEHY. PIT
UNIT G, SEC. 15, T28N, R8W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **October 26, 2009**

DEVELOPER / SAMPLER : N J V

Filename : **10-26-09.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	101.69	90.73	10.96	20.00	-	-	-	-	-
2R	102.44	89.76	12.68	19.83	1040	7.37	1,500	13.5	3.50
3	101.65	89.06	12.59	20.06	-	-	-	-	-
					INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800		
					DATE & TIME =	10/26/09	1030		

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)
Ideally a minimum of three (3) wellbore volumes:
2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

MW # 2R - excellent recovery , dark yellowish orange color in appearance . Collected sample from MW # 2R and analyzed for BTEX per US EPA Method 8021B .

Monitor well top elevations surveyed on 10 / 22 / 09 .
Top of casing MW # 1 ~ 1.95 ft. , MW # 2 ~ 2.33 ft. , MW # 3 ~ 1.80 ft. above grade .

on-site	10:05	temp	37 F
off-site	10:50	temp	42 F
sky cond.	sunny		
wind speed	0 - 5	direct.	E

Hall Environmental Analysis Laboratory, Inc.

Date: *30-Oct-09*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2R
Lab Order:	0910477	**Collection Date:**	10/26/2009 10:40:00 AM
Project:	Jones A LS #3	**Date Received:**	10/27/2009
Lab ID:	0910477-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	9.9	1.0		µg/L	1	10/29/2009 11:04:30 PM
Toluene	ND	1.0		µg/L	1	10/29/2009 11:04:30 PM
Ethylbenzene	13	1.0		µg/L	1	10/29/2009 11:04:30 PM
Xylenes, Total	ND	2.0		µg/L	1	10/29/2009 11:04:30 PM
Surr: 4-Bromofluorobenzene	90.3	65.9-130		%REC	1	10/29/2009 11:04:30 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	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: BLAGE ENGR. / BP AMERICA

Mailing Address: P.O. BOX 87
BLFD. NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: JONES A LS #3

Project #:

Project Manager: NELSON VELEZ 9V

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.9

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 0910177	Analysis Request: BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
10/26/09	1640	WATER	MW #2R	2-40ml	HCl & COOL	-1	✓															

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/26/09	1630			10/27/09	940
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Jones A LS #3 **Work Order:** 0910477

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R35953**	Analysis Date:	10/29/2009 8:23:38 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:	**R35953**	Analysis Date:	10/30/2009 3:36:59 AM		
Benzene	18.39	µg/L	1.0	20	0	91.9	85.9	113			
Toluene	18.18	µg/L	1.0	20	0	90.9	86.4	113			
Ethylbenzene	17.96	µg/L	1.0	20	0	89.8	83.5	118			
Xylenes, Total	52.51	µg/L	2.0	60	0	87.5	83.4	122			

Qualifiers:

E	Estimated value	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: **10/27/2009**

Work Order Number **0910477** Received by: **TLS**

Checklist completed by: _____ 10/27/09 Sample ID labels checked by: _____
Signature Date Initials

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 ☐		Number of preserved bottles checked for pH:
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 ☑	*<2 >12 unless noted below.*
Container/Temp Blank temperature?	**1.9°**	*<6° C 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

JONES A LS # 3 - DEHY. PIT
UNIT G, SEC. 15, T28N, R8W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **February 24, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **02-24-10.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	101.69	92.31	9.38	20.00	-	-	-	-	-
2R	102.44	91.34	11.10	19.83	0925	7.27	1,900	9.7	4.25
3	101.65	90.62	11.03	20.06	-	-	-	-	-
					INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800		
					DATE & TIME =	02/23/10	1000		

NOTES : Volume of water purged from well prior to sampling: V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)
Ideally a minimum of three (3) wellbore volumes:
2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

MW # 2R - excellent recovery , dark yellowish orange color in appearance . Collected sample from MW # 2R to analyze for BTEX per US EPA Method 8021B .

Top of casing MW # 1 ~ 1.95 ft. , MW # 2 ~ 2.33 ft. , MW # 3 ~ 1.80 ft. above grade .

on-site	8:44	temp	32 F
off-site	9:32	temp	35 F
sky cond.	Mostly cloudy		
wind speed	0 - 10	direct.	E

Hall Environmental Analysis Laboratory, Inc.

Date: *09-Mar-10*

CLIENT:	Blagg Engineering	**Client Sample ID:**	MW #2R
Lab Order:	1003071	**Collection Date:**	2/27/2010 9:25:00 AM
Project:	Jones A LS #3	**Date Received:**	3/3/2010
Lab ID:	1003071-01	**Matrix:**	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	3/8/2010 2:23:39 PM
Toluene	ND	1.0		µg/L	1	3/8/2010 2:23:39 PM
Ethylbenzene	ND	1.0		µg/L	1	3/8/2010 2:23:39 PM
Xylenes, Total	ND	2.0		µg/L	1	3/8/2010 2:23:39 PM
Surr: 4-Bromofluorobenzene	105	65.9-130		%REC	1	3/8/2010 2:23:39 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Chain-of-Custody Record

Client: BLAGG ENER./BP AMERICA

Mailing Address: P.O. BOX 87
BLFD., NM 87413

Phone #: (505) 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
☐ Other _____
☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name: JONES A LS #3

Project #:

Project Manager: NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.1

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1003571
2/27/10	0925	WATER	MW #2R	2-40ml	HCl & COOL	-1

Analysis Request

(BTEX + MTBE + TMB's (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
✓															

Date:	Time:	Relinquished by:	Received by:	Date	Time
3/2/10	1500			3/3/10	1005
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Jones A LS #3 **Work Order:** 1003071

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R37664**	Analysis Date:		3/5/2010 9:16:26 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 5		*MBLK*				Batch ID:	**R37677**	Analysis Date:		3/8/2010 11:21:44 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:	**R37664**	Analysis Date:		3/5/2010 8:43:42 PM	
Benzene	19.65	µg/L	1.0	20	0	98.3	85.9	113			
Toluene	19.01	µg/L	1.0	20	0	95.0	86.4	113			
Ethylbenzene	18.98	µg/L	1.0	20	0	94.9	83.5	118			
Xylenes, Total	57.39	µg/L	2.0	60	0	95.7	83.4	122			
Sample ID: 100NG BTEX LCS		*LCS*				Batch ID:	**R37677**	Analysis Date:		3/8/2010 8:58:22 PM	
Benzene	21.82	µg/L	1.0	20	0	109	85.9	113			
Toluene	21.28	µg/L	1.0	20	0	106	86.4	113			
Ethylbenzene	20.95	µg/L	1.0	20	0	105	83.5	118			
Xylenes, Total	62.35	µg/L	2.0	60	0	104	83.4	122			
Sample ID: 100NG BTEX LCSD		*LCSD*				Batch ID:	**R37664**	Analysis Date:		3/5/2010 9:13:58 PM	
Benzene	19.07	µg/L	1.0	20	0	95.4	85.9	113	3.02	27	
Toluene	18.37	µg/L	1.0	20	0	91.8	86.4	113	3.43	19	
Ethylbenzene	18.16	µg/L	1.0	20	0	90.8	83.5	118	4.39	10	
Xylenes, Total	55.07	µg/L	2.0	60	0	91.8	83.4	122	4.14	13	

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG** Date Received: **3/3/2010**

Work Order Number **1003071** Received by: **TLS**

Checklist completed by: _____ 3/3/10 Sample ID labels checked by: _____
Signature Date 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?	**1.9°**	*<6° C Acceptable* If given sufficient time to cool.		

Number of preserved bottles checked for pH: _____

<2 >12 unless noted below.

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

JONES A LS # 3 - DEHY. PIT
UNIT G, SEC. 15, T28N, R8W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : **May 11, 2010**

DEVELOPER / SAMPLER : N J V

Filename : **05-11-10.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	101.69	92.25	9.44	20.00	-	-	-	-	-
2R	102.44	91.24	11.20	19.83	1030	7.10	1,900	14.5	4.25
3	101.65	90.52	11.13	20.06	0950	7.40	1,500	14.0	4.50
					INSTRUMENT CALIBRATIONS =	4.01/7.00/10.00	2,800		
					DATE & TIME =	05/10/10	0915		

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).
(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)
Ideally a minimum of three (3) wellbore volumes:
2.00 " well diameter = 0.49 gallons per foot of water.

Comments or note well diameter if not standard 2 ".

MW # 2R - excellent recovery , dark yellowish orange color in appearance .
MW # 3 - excellent recovery , grayish tint color in appearance . Collected samples from MW # 2R & # 3 to analyze for BTEX per US EPA Method 8021B .

Top of casing MW # 1 ~ 1.95 ft., MW # 2 ~ 2.33 ft., MW # 3 ~ 1.80 ft. above grade .

on-site	9:22	temp	
off-site	10:44	temp	
sky cond.	Sunny		
wind speed		direct.	

Hall Environmental Analysis Laboratory, Inc.

Date: *17-May-10*

CLIENT: Blagg Engineering
Project: Jones A LS #3
Lab Order: 1005288

Lab ID: 1005288-01
Collection Date: 5/11/2010 10:30:00 AM
Client Sample ID: MW #2
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/15/2010 8:05:24 AM
Toluene	ND	1.0		µg/L	1	5/15/2010 8:05:24 AM
Ethylbenzene	ND	1.0		µg/L	1	5/15/2010 8:05:24 AM
Xylenes, Total	ND	2.0		µg/L	1	5/15/2010 8:05:24 AM
Surr: 4-Bromofluorobenzene	107	65.9-130		%REC	1	5/15/2010 8:05:24 AM

Lab ID: 1005288-02
Collection Date: 5/11/2010 9:50:00 AM
Client Sample ID: MW #3
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**
Benzene	ND	1.0		µg/L	1	5/15/2010 8:35:37 AM
Toluene	ND	1.0		µg/L	1	5/15/2010 8:35:37 AM
Ethylbenzene	9.9	1.0		µg/L	1	5/15/2010 8:35:37 AM
Xylenes, Total	16	2.0		µg/L	1	5/15/2010 8:35:37 AM
Surr: 4-Bromofluorobenzene	99.0	65.9-130		%REC	1	5/15/2010 8:35:37 AM

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	MCL	Maximum Contaminant Level
NC	Non-Chlorinated	ND	Not Detected at the Reporting Limit
PQL	Practical Quantitation Limit	S	Spike recovery outside accepted recovery limits

Chain-of-Custody Record

Client: BLAGG ENER. / BP AMERICA

Mailing Address: P. O. BOX 87
BLFD. NM 87413

Phone #: 505 632-1199

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☒ Standard ☐ Rush _____

Project Name:
JONES A LS #3

Project #:

Project Manager:
NELSON VELEZ

Sampler: NELSON VELEZ

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.4

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1005288	BTEX + MTBE + TMBs (8021B)	BTEX + MTBE + TPH (Gas only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)					Air Bubbles (Y or N)
5/11/10	1030	WATER	MW #2	HCl & COOL 2-40ml	HCl & COOL	1	✓															
5/11/10	0950	WATER	MW #3	HCl & COOL 2-40ml	HCl & COOL	2	✓															

Date:	Time:	Relinquished by:	Received by:	Date	Time	Remarks:
5/11/10	1615					
Date:	Time:	Relinquished by:	Received by:	Date	Time	
				5/12/10	18:15	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Jones A LS #3 **Work Order:** 1005288

Analyte	Result	Units	PQL	SPK Va	SPK ref	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: EPA Method 8021B: Volatiles											
Sample ID: 5ML RB		*MBLK*				Batch ID:	**R38716**	Analysis Date:	5/14/2010 9:21:44 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:	**R38716**	Analysis Date:	5/15/2010 1:02:19 AM		
Benzene	17.76	µg/L	1.0	20	0	88.8	87.9	121			
Toluene	17.65	µg/L	1.0	20	0	88.3	83	124			
Ethylbenzene	17.57	µg/L	1.0	20	0	87.9	81.7	122			
Xylenes, Total	53.27	µg/L	2.0	60	0	88.8	85.6	121			

Qualifiers:

E	Estimated value	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	NC	Non-Chlorinated
ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name **BLAGG** Date Received: **5/12/2010**

Work Order Number **1005288** Received by: ARS

Checklist completed by: _____ 5/12/10 Sample ID labels checked by: _____

Signature Date Initials

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 ☐		Number of preserved bottles checked for pH:
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 ☑	_____ *<2 >12 unless noted below.*
Container/Temp Blank temperature?	**3.4°**	*<6° C Acceptable* If given sufficient time to cool.		

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____