

3R - 004

**ANNUAL
MONITORING
REPORT**

01/28/2008

3 R004

BLAGG ENGINEERING, INC.

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

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

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

**Re: BP America Production Company (formerly Amoco Production Co. & BP Amoco)
Groundwater Monitoring Report
Boyd GC # 1A, Unit A, Sec. 8, T31N, R10W, NMPM
San Juan County, New Mexico**

NMOCD Administrative/Environmental Order #: 3RP-4-0

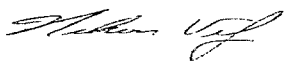
Dear Mr. Von Gonten:

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

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

3 R004

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

1994-2007

**BOYD GC # 1A
(A) SECTION 8, T31N, R10W, 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 COMPANY
Boyd GC #1A
Ne/4 Ne/4, Sec. 8, T31N, R10W

Pit Closure Dates:

Jul.-Aug 1994 & Oct 2002 (Documentation Included)

Monitor Well Installation Dates:

10/31/2002 (MW #2), 12/13/2002 (MW #1, MW #3),
1/16/2003 (MW #4), 7/24/2006 (MW #5)

Monitor Well Sampling Dates:

11/13/02, 6/9/03, 8/20/03, 11/11/03, 5/27/04, 9/28/04,
6/23/05, 9/20/05, 6/28/06, 8/10/06, 11/15/06, 1/24/07,
4/18/07, 7/24/07, 10/23/07

Historical Information:

Groundwater was encountered at a depth of approximately 24 feet below surface grade during excavation of impacted soils from a separator/dehydrator (sep/dehy) pit in July/August 1994. Approximately 1,600 cubic yards of soils were removed and composted on-site during this remedial effort. Following this on-site treatment, the soils were tested for hydrocarbon content and then a portion was used as backfill material (note that clean fill was placed in the base of the excavation and remediated soils were deposited above the water table interface [see attached pit closure report]). The remaining soils were transported to BP's (formerly called Amoco Production Company) Cahn GC #1 well site (Unit C, Sec. 33, T32N, R10W).

Impacted soils at a site compressor pit with a 21 barrel steel tank were encountered during pit closure activities in October 2002. The impacts to these soils appeared to be historical in nature and not due to an unauthorized release, based upon the physical evidence observed. The soils were left in place for remediation via natural attenuation. The pit area encompassed approximately 14 feet by 12 feet in dimension. One (1) soil sample was collected during the initial investigation.

The sample was tested by a qualified laboratory for total petroleum hydrocarbon (TPH) analysis per US EPA method 8015 modified and for benzene, toluene, ethylbenzene, and total xylenes (BTEX) analysis per US EPA method 8021. The TPH and BTEX results of the soil sampling event is as follows;

SAMPLE ID	DATE	TOTAL TPH (ppm)	BENZENE (ppm)	TOTAL BTEX (ppm)
1 @ 10 ft. – compressor pit	10/02/02	1,930	0.135	2.92
NMOCD REGULATORY STANDARDS		100	10	50

Note: TPH = total petroleum hydrocarbons, BTEX = benzene, toluene, ethylbenzene, and total xylenes, ppm = parts per million, NMOCD = New Mexico Oil Conservation Division.

Groundwater Investigation and Soil Lithology:

Groundwater monitor wells were installed between October 2002 and January 2003 to test groundwater quality. Boring logs for all four (4) monitor wells along with well completion information are contained within this report. Two (2) water wells were identified within the immediate area of the well sites. The Gaines resident water well is located up gradient of the two (2) separate pits investigated. The Harris well is located at a considerable distance (> 1,000 feet) down gradient of

the well site. Both water wells have tested at non-detectable levels for all BTEX constituents. The test results of site monitor wells installed in this timeframe as well as the two (2) water wells mentioned are shown on the following table.

Sample ID	MW #1	MW #2	MW #3	MW #4	Gaines well	Harris well	NMWQCC regulatory standards
Date	06/09/03	11/13/02	06/09/03	06/09/03	10/04/02	10/31/02	
benzene (ppb)	ND	705	ND	15	ND	ND	10
toluene (ppb)	ND	597	ND	ND	ND	ND	750
Ethylbenzene (ppb)	ND	60	ND	4.5	ND	ND	750
total xylenes (ppb)	ND	959	ND	0.75	ND	ND	620

Note: NMWQCC = New Mexico Water Quality Control Commission, ppb = parts per billion, ppm = parts per million, ND = not detectable at reported limits.

Soil lithology at the site consists of primarily sand of varying color with some minor intervals of clay and sand/gravel mix. Sand/gravel was encountered within the area of MW #3 and MW #4 at greater depths (31 feet below grade). MW #1 boring revealed a stiff clay 29 feet below grade. As was noted earlier, remediated soil had been placed within the excavated sep/dehy pit above imported clean fill material (see Bore / Test Hole Report for MW #3). A composite sample was collected from the auger cuttings prior to advancing below 20 feet from grade for verification of the remedial status of the soil. The findings from the field screening utilizing an Organic Vapor Meter (OVM) and laboratory analysis for TPH is listed below.

SAMPLE ID	DATE	OVM (ppm)	TOTAL TPH (ppm)
MW #3 - CS	12/13/02	0.0	ND
NMOCD REGULATORY STANDARDS		100	100

Note: OVM = Organic Vapor Meter or photo ionization detector (PID), ppm = parts per million, ND = not detectable at reported limits, NMOCD = New Mexico Oil Conservation Division.

Groundwater Monitor Well Sampling Procedures:

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

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

Groundwater Quality & Flow Direction Information:

Sampling of the groundwater monitor wells has been ongoing since November, 2002. A summary of laboratory analytical results is included within the tables on the following pages and laboratory data reports are included in Appendix A. Groundwater at the site of the prior compressor pit (MW #2) has tested BTEX in excess of New Mexico Water Quality Control Commission (NMWQCC) standards. Monitor wells MW #1 (up-gradient well) and MW #3 (prior sep/dehy pit area) have tested BTEX below laboratory detection limits for at least four (4) consecutive sampling events. A subsequent sample from the Gaines water well was collected in July 2006. All BTEX constituents again revealed non-detectable levels.

The initial furthest down gradient monitor well, MW #4, has tested benzene levels fluctuating above and below NMWQCC standards since quarterly sampling was initiated in June 2003. In order to further improve down-gradient delineation of impacts, an additional well (MW #5) was installed in July 2006 (boring log with monitor well completion information attached). The initial BTEX results reveal benzene above NMWQCC standards (23 ppb), however subsequent testing has resulted in four (4) consecutive sampling events with BTEX below standards.

Groundwater has consistently been measured with a gradient towards the northwest. There is a significant fluctuation ($4\pm$ feet) in seasonal depth to water, likely due to crop irrigation and ditch flow between April – October.

Summary and Recommendations:

Hydrocarbon impacts from two (2) apparent source areas has been partially delineated and are presently undergoing remediation via natural attenuation. No adverse impact to the identified nearest private water well receptors has been detected. This site will continue to have a minimum of an annual and/or quarterly sampling and testing pursuant to BP's NMOCD approved groundwater management plan. If warranted, alternative remedial actions will be evaluated.

BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

BOYD GC #1A

UNIT A, SEC. 8, T31N, R10W

REVISED DATE: December 21, 2007

FILENAME: (B1A-4Q07.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
04-Oct-02	GAINES	NA	NA					ND	ND	ND	ND
10-Aug-06		NA	NA					ND	ND	ND	ND
31-Oct-02	HARRIS	NA	NA					ND	ND	ND	ND
09-Jun-03	MW #1	23.31	29.50		700	6.96		ND	ND	ND	ND
20-Aug-03		19.00			900	7.21		ND	ND	ND	ND
11-Nov-03		22.84			900	7.17		ND	ND	ND	ND
27-May-04		26.49			900	6.80		ND	ND	ND	ND
28-Sep-04		19.59			900	7.20		ND	ND	ND	ND
13-Nov-02	MW #2	23.31	29.50		700	6.84		705	597	60	959
09-Jun-03		23.06			700	6.89		830	110	170	1,800
20-Aug-03		18.11			700	6.94		58	ND	60	800
27-May-04		26.76			1,000	6.67		940	ND	200	1,200
23-Jun-05		22.31			1,100	6.82		1,400	21	490	5,500
28-Jun-06		18.59			800	6.88		75	ND	ND	1,600
09-Jun-03	MW #3	26.46	29.50		600	6.92		ND	ND	ND	ND
20-Aug-03		23.11			900	7.08		ND	ND	ND	ND
11-Nov-03		26.23			900	7.17		ND	ND	ND	ND
28-Sep-04		23.17			800	7.17		ND	ND	ND	ND
09-Jun-03	MW #4	28.09	34.50		1,000	6.69		15	ND	4.5	0.75
20-Aug-03		25.26			1,000	6.80		460	71	100	88
11-Nov-03		28.08			1,000	7.00		270	ND	310	440
27-May-04		30.52			1,000	6.87		5.1	ND	14	51
28-Sep-04		25.13			700	6.91		140	ND	18	9.1
23-Jun-05		27.81			1,000	6.73		0.68	0.59	2.0	ND
20-Sep-05		27.28			800	6.70		120	3.4	120	130
28-Jun-06		26.96			900	6.80		ND	ND	ND	ND
15-Nov-06		28.74			800	7.08		29	ND	38	200
24-Jan-07		31.17			800	7.14		40	ND	140	1,300
18-Apr-07		32.44			800	6.98		ND	ND	1.6	ND
24-Jul-07		27.82			700	7.01		ND	ND	ND	ND
23-Oct-07		28.73			1,000	6.93		26	ND	20	120
10-Aug-06	MW #5	23.90	36.30		1,100	6.84		23	ND	11	15
15-Nov-06		26.20			900	7.05		6.8	ND	2.9	ND
24-Jan-07		28.35			800	7.13		1.3	ND	ND	ND
18-Apr-07		29.29			900	6.90		ND	ND	ND	ND
24-Jul-07		25.25			1,500	6.74		ND	ND	ND	ND
NMWQCC GROUNDWATER STANDARDS								10	750	750	620

- NOTES :
- 1) GAINES WATER WELL CURRENTLY CATEGORIZED AS UP GRADIENT FROM MW #2.
 - 2) HARRIS WATER WELL CURRENTLY CATEGORIZED AS LATERAL GRADIENT FROM MW #2.
 - 3) MW #2 LOCATED WITHIN COMPRESSOR PIT, IDENTIFIED WITH SOIL HYDROCARBON CONTAMINATION ON 10/2/02.
 - 4) RESULTS IN BOLD RED TYPE INDICATE EXCEEDING NMWQCC STANDARDS.
 - 5) RESULTS IN BOLD BLUE TYPE INDICATE BELOW NMWQCC STANDARDS AFTER PRECEDING SAMPLING EXCEEDED.

BOYD GC #1A

depth to water changes between 11/01/02 & 11/10/03

[illegible]

**ON SITE
TECHNOLOGIES, LTD.**

AROMATIC VOLATILE ORGANICS

Attn: *Nelson Velez*
Company: *Blagg Engineering*
Address: *P.O. Box 87*
City, State: *Bloomfield, NM 87413*

Date: *8/9/94*
Lab ID: *1687*
Sample ID: *2419*
Job No. *2-1000*

Project Name: *Boyd GC 1A*
Project Location: *PW 1 @ GW (24') - Sep/Dehy Pit*
Sampled by: *NV* Date: *8/9/94*
Analyzed by: *DLA* Date: *8/10/94*
Sample Matrix: *Liquid*

Time: *13:15*

Aromatic Volatile Organics

Component	**Measured Concentration ug/L
<i>Benzene</i>	<i>19.6</i>
<i>Toluene</i>	<i>52.8</i>
<i>Ethylbenzene</i>	<i>26.4</i>
<i>m,p-Xylene</i>	<i>325</i>
<i>o-Xylene</i>	<i>87</i>
TOTAL	511 ug/L

ND - Not Detectable

** - Method Detection Limit, 2 ug/L

**Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by
Gas Chromatography**

Approved by:

Date:

Bill Velez, Ph.D.
8/10/94



AROMATIC VOLATILE ORGANICS

Attn: Nelson Velez
Company: Blagg Engineering
Address: P.O. Box 87
City, State: Bloomfield, NM 87413

Date: 8/18/94
Lab ID: 1829
Sample ID: 2549
Job No. 2-1000

Project Name: Boyd GC 1A
Project Location: PW 2 @ GW (24') - Sep/Dehy
Sampled by: NV Date: 8/17/94
Analyzed by: DLA Date: 8/18/94
Sample Matrix: Liquid

Time: 16:45

Aromatic Volatile Organics

Component	**Measured Concentration ug/L
Benzene	3.7
Toluene	3.7
Ethylbenzene	1.2
m,p-Xylene	59.2
o-Xylene	29.4
TOTAL	97.3 ug/L

ND - Not Detectable

** - Method Detection Limit, 2 ug/L

Method - SW-846 EPA Method 8200 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jah*

Date: 8/18/94

ON SITE TECHNOLOGIES LIMITED

657 W. Maple ▪ P. O. Box 2606 ▪ Farmington, NM 87499
LAB: (505) 325-5667 ▪ FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

Date: 8/10/94

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80027

Purchase Order No.:		Reference No.:		Name: <u>Mr. J. L. King</u>		Title: <u>PC</u>	
SEND INVOICE TO		Company: <u>BLISS ENGINEERING</u>		Company: <u>BLISS</u>		Title: <u>PC</u>	
Address: <u>P.O. Box 27</u>		Dept.:		Mailing Address: <u>BLISS</u>		Mailing Address: <u>BLISS</u>	
City, State, Zip: <u>Farmington, NM 87499</u>		City, State, Zip: <u>BLISS</u>		City, State, Zip: <u>BLISS</u>		City, State, Zip: <u>BLISS</u>	
Special Instructions: <u>8040 GC 1A</u>		Telephone No.:		Telephone No.:		Telephone No.:	
Sampler: <u>2/10/94</u>		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Sample Identification		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
P.O. (20024) - 500/0000		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Relinquished by: <u>John King</u>		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Relinquished by:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Relinquished by:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Method of Shipment:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Authorized by: _____		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
(Client Signature <u>Must</u> Accompany Request)		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Received by: <u>John King</u>		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Received by:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Received by:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Rush		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
5 Working Days		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
10 Working Days		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Sampling Location:		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	
Remarks (matrix)		DATE/TIME SAMPLED		COMPOSITE/ GRAB		PRESERVATIVES	

**ON SITE
TECHNOLOGIES LIMITED**

657 W. Maple ■ P. O. Box 2606 ■ Farmington, NM 87499
LAB: (505) 325-5667 ■ FAX: (505) 325-6256

Date: 03/03/2014

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80027

[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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CLIENT: BP

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

LOCATION NO: 80027
COCR NO: 10263

FIELD REPORT: PIT CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: 804D GC WELL #: 1A TYPE: COMPR.
QUAD/UNIT: C SEC: 8 TWP: 31N RNG: 10W PM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: 1170'N/1640'W NE/NW CONTRACTOR: HIGH DESERT (HEBER)

DATE STARTED: 10/2/02
DATE FINISHED:
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. NA FT. X NA FT. X NA FT. DEEP. CUBIC YARDAGE: NA
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD:
LAND USE: RANGE LEASE: FEE FORMATION: mv

FIELD NOTES & REMARKS:
PIT LOCATED APPROXIMATELY 171 FT. S20E FROM WELLHEAD.
DEPTH TO GROUNDWATER: < 50' NEAREST WATER SOURCE: < 200' NEAREST SURFACE WATER: < 1000'
NMOC D RANKING SCORE: 50 NMOC D TPH CLOSURE STD: 100 PPM

SOIL AND EXCAVATION DESCRIPTION:
SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER
SOIL COLOR: MOD. YELL. BROWN TO MED. GRAY
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: MED. GRAY BETWEEN 8'-11' BELOW GRADE.
HC ODOR DETECTED: YES NO EXPLANATION: PIT AREA & DUMP SAMPLE.
SAMPLE TYPE: GRAB COMPOSITE - # OF PTS. -
ADDITIONAL COMMENTS: REMOVED STEEL TANK PRIOR TO SAMPLING. PRIOR INFO. ON GW
DEPTH C SITE. VERTICAL EXTENT WILL PROBABLY NEED TO BE ESTABLISHED.

OVM CALIB. READ. = 52.2 ppm
OVM CALIB. GAS = 100 ppm RF = 0.52
TIME: 8:47 @/pm DATE: 10/2/02

FIELD 418.1 CALCULATIONS

SCALE 0 FT
PIT PERIMETER
PIT PROFILE

T.H. ~ 4'
B.T.B.
FORMER TANK LOC. T.B. ~ 6' B.G.

TO WELL HEAD
P.D. ~ 5'
B.G.
14'
BERM
12'
ROADWAY

OVM READING
SAMPLE ID FIELD HEADSPACE (ppm)
1 @ 10' 674
2 @
3 @
4 @
5 @

LAB SAMPLES
SAMPLE ID ANALYSIS TIME
1 @ 10' TPH (80158) 1238
" BTEX (80218) "

TRAVEL NOTES:
CALLOUT: 10/2/02 - LATE MORN. ONSITE: 10/2/02 - AFTER.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: 1 @ 10'
Laboratory Number: 23928
Chain of Custody No: 10263
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

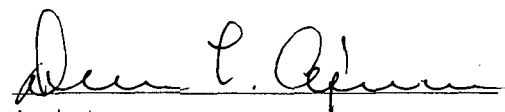
Project #: 94034-010
Date Reported: 10-03-02
Date Sampled: 10-02-02
Date Received: 10-02-02
Date Extracted: 10-02-02
Date Analyzed: 10-03-02
Analysis Requested: 8015 TPH

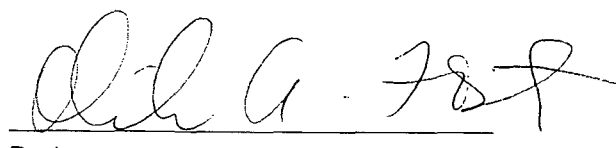
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,900	0.2
Diesel Range (C10 - C28)	31.3	0.1
Total Petroleum Hydrocarbons	1,930	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Boyd GC #1A Compressor Pit Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Blagg / BP
Sample ID: 1 @ 10'
Laboratory Number: 23928
Chain of Custody: 10263
Sample Matrix: Soil
Preservative: Cool
Condition: Cool & Intact

Project #: 94034-010
Date Reported: 10-03-02
Date Sampled: 10-02-02
Date Received: 10-02-02
Date Analyzed: 10-03-02
Date Extracted: 10-02-02
Analysis Requested: BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	135	1.8
Toluene	657	1.7
Ethylbenzene	351	1.5
p,m-Xylene	1,170	2.2
o-Xylene	607	1.0
Total BTEX	2,920	

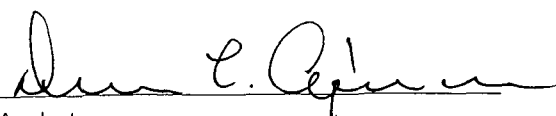
ND - Parameter not detected at the stated detection limit.

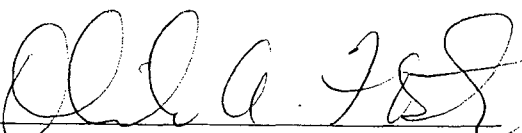
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	96 %
	1,4-difluorobenzene	96 %
	Bromochlorobenzene	96 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Boyd GC #1A Compressor Pit Grab Sample.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	10-03-TPH QA/QC	Date Reported:	10-03-02
Laboratory Number:	23925	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-03-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

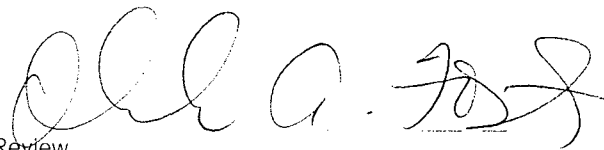
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	250	100.0%	75 - 125%
Diesel Range C10 - C28	ND	250	250	100.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 23925 - 23928.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: N/A
Sample ID: 10-03-BTEX QA/QC
Laboratory Number: 23926
Sample Matrix: Soil
Preservative: N/A
Condition: N/A

Project #: N/A
Date Reported: 10-03-02
Date Sampled: N/A
Date Received: N/A
Date Analyzed: 10-03-02
Analysis: BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept. Range 0 - 15%			
Benzene	2.6914E-002	2.6995E-002	0.3%	ND	0.2
Toluene	3.3709E-002	3.3777E-002	0.2%	ND	0.2
Ethylbenzene	5.8262E-002	5.8438E-002	0.3%	ND	0.2
p,m-Xylene	7.1891E-002	7.2107E-002	0.3%	ND	0.2
o-Xylene	5.4522E-002	5.4631E-002	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect Limit
Benzene	16.5	16.5	0.0%	0 - 30%	1.8
Toluene	541	531	2.0%	0 - 30%	1.7
Ethylbenzene	277	271	2.0%	0 - 30%	1.5
p,m-Xylene	1,260	1,260	0.0%	0 - 30%	2.2
o-Xylene	522	521	0.2%	0 - 30%	1.0

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	16.5	50.0	66.4	99.8%	39 - 150
Toluene	541	50.0	591	100.0%	46 - 148
Ethylbenzene	277	50.0	327	100.0%	32 - 160
p,m-Xylene	1,260	100	1,360	100.0%	46 - 148
o-Xylene	522	50.0	572	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: QA/QC for samples 23926 - 23928, 23934 - 23938.

Analyst

Review

RESULTS TO BOB MCGY 9-1-94 RCO

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: 80027

C.D.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: BOYD GAS COM WELL #: 1A PITS: STOCKPILES
QUAD/UNIT: C SEC: 8 TWP: 31N RNG: 10W BM: NM CNTY: SJ ST: NM
QTR/FOOTAGE: NE/NW CONTRACTOR: PAUL + SONS FRANK HALLDATE STARTED: 9-1-94

DATE FINISHED: _____

ENVIRONMENTAL SPECIALIST: R E O

SOIL REMEDIATION:

80'x40'x8'

REMEDICATION SYSTEM: StockpileAPPROX. CUBIC YARDAGE: 1000LAND USE: RURAL RESIDENTIAL

LEASE: _____

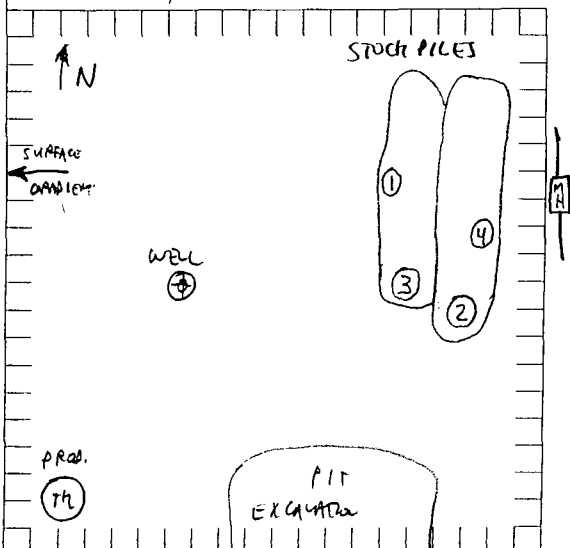
FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: <50' NEAREST WATER SOURCE: <1000' NEAREST SURFACE WATER: <1000'NMOCB RANKING SCORE: +40 NMOCB TPH CLOSURE STD: 100 PPMTWO WINDROWED STOCKPILES - SIDE BY SIDE, UNKNOWN DATE OF EXCAVATION.
SOIL IS MOIST, BROWN, NO ODOR - SOME GRAY STAINED SOILS VISIBLE INSIDE PILE.
SAMPLES ARE COMPOSITES IN AREAS NOTED.#4 1105 10.0 20.0 - 184 368
FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
STK #1	1102	10.0	20.0	-	500	1000
#2	1103	"	"	-	218	436
#2	1103-D	"	"	-	225	450

#3 1104 " " - 290 580

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PHD (ppm)
STK #1	ND
#2	ND
#3	ND
#4	ND

LAB SAMPLES

SAMPLE ID	ANALYSIS

TRAVEL NOTES:

CALLOUT: 8-31-94ONSITE: 0800 9-1-94

BLAGG ENGINEERING, INC.

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

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	Stockpile Sample #1	Date Analyzed:	9-01-94
Project Location:	Boyd Gas Com 1A	Date Reported:	9-01-94
Laboratory Number:	TPH-1102	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	1,000	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	104	92	12

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Stockpiles - ~~B0072~~ B0027

R. E. O'Neil
Analyst

J. C. Blagg
Review

BLAGG ENGINEERING, INC.

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

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	Stockpile Sample #2	Date Analyzed:	9-01-94
Project Location:	Boyd Gas Com 1A	Date Reported:	9-01-94
Laboratory Number:	TPH-1103	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	440	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	104	92	12

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Stockpiles - ~~B0072~~ B0027

R. E. O'Neil
Analyst

J. C. Blagg
Review

BLAGG ENGINEERING, INC.

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

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	Stockpile Sample #2	Date Analyzed:	9-01-94
Project Location:	Boyd Gas Com 1A	Date Reported:	9-01-94
Laboratory Number:	TPH-1103 Duplicate	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	450	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	440	450	2

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and Waste,
USEPA Storet No.4551, 1978

Comments: Stockpiles - ~~B0072~~ B0027

R. E. O'Neil
Analyst

J. C. Blagg
Review

BLAGG ENGINEERING, INC.

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

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	Stockpile Sample #3	Date Analyzed:	9-01-94
Project Location:	Boyd Gas Com 1A	Date Reported:	9-01-94
Laboratory Number:	TPH-1104	Sample Matrix:	Soil

Parameter -----	Result, mg/kg -----	Detection Limit, mg/kg -----
Total Recoverable Petroleum Hydrocarbons	580	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg -----	Duplicate TPH mg/kg -----	% *Diff. -----
	440	450	2

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total
Recoverable, Chemical Analysis of Water and Waste,
USEPA Storet No.4551, 1978

Comments: Stockpiles - ~~B0072~~ B0027R. E. O'Neil
AnalystJ. C. Blagg
Review

BLAGG ENGINEERING, INC.

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

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

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	Stockpile Sample #4	Date Analyzed:	9-01-94
Project Location:	Boyd Gas Com 1A	Date Reported:	9-01-94
Laboratory Number:	TPH-1105	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	370	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	440	450	2

*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

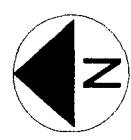
Comments: Stockpiles - ~~B0072~~ B0027

R. E. O'Neil
Analyst

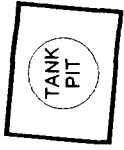
J. C. Blagg
Review

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

FIGURE 1



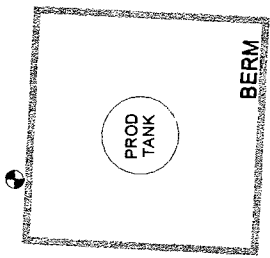
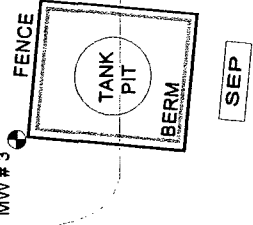
WELL HEAD



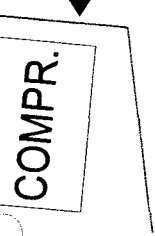
JULY-AUGUST 1994 EXCAVATION

MW # 1

MW # 3



MW # 4



SOUND WALLS

ACCESS ROAD

ABOVE GROUND POWER LINE

TEST HOLE ADVANCED
10/02/02 TIME: 1238

MW # 2

COMPRESSOR PIT
BERM DIMENSION: 14 x 12 FT.

FENCE

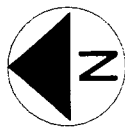
CR 2470

1 INCH = 35 FT.
0 35 70 FT.

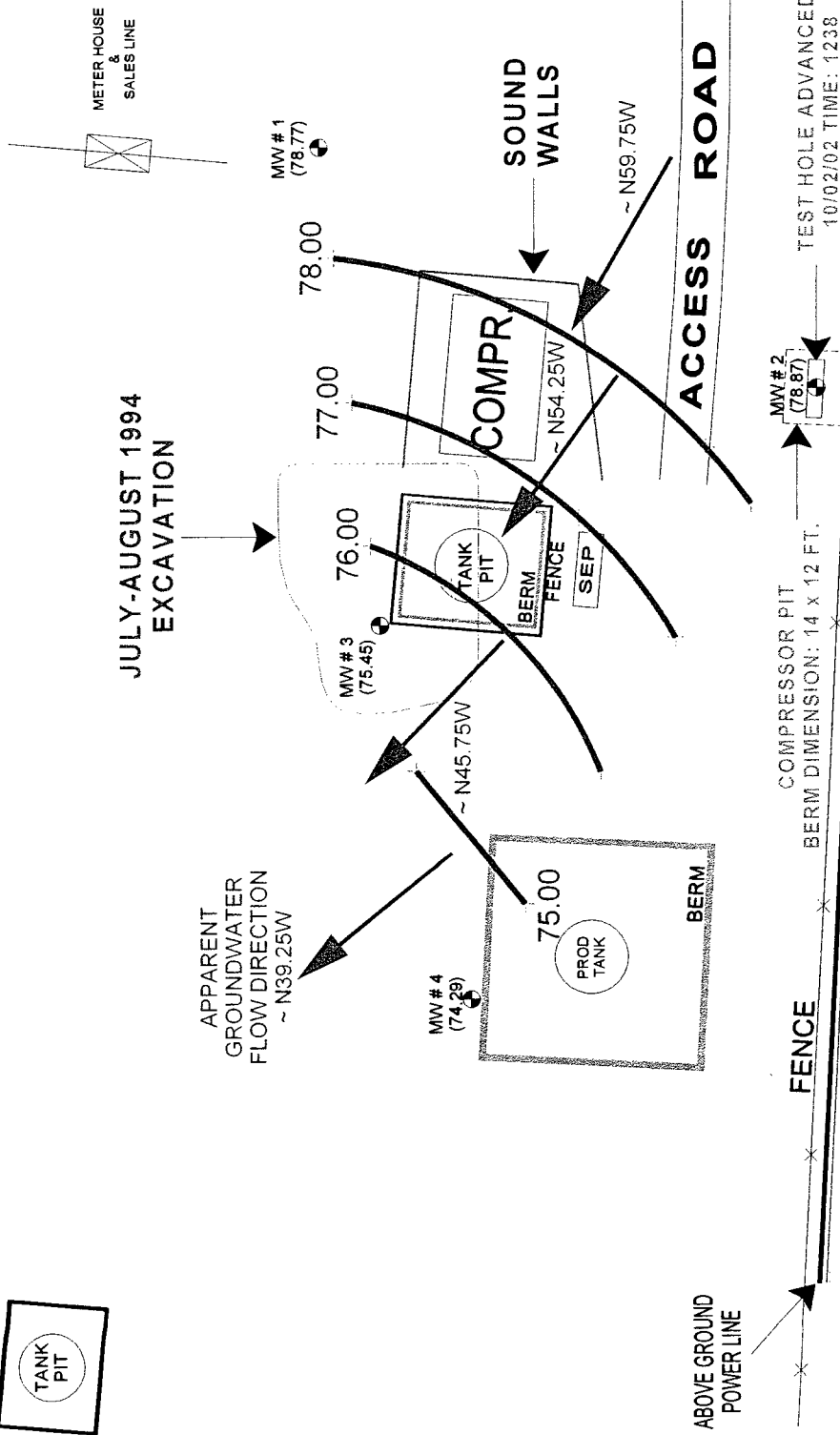
BP AMERICA PRODUCTION COMPANY BOYD GC # 1A NE/4 NW/4 SEC. 8, T31N, R10W, NMMP SAN JUAN COUNTY, NEW MEXICO	BLAGG ENGINEERING, I NC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199	PROJECT: MW INSTALL. REVISED BY: NJV FILENAME: 09-28-04-SM.SKF	SITE MAP 09/04
--	---	---	----------------------------------

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

FIGURE 2



WELL HEAD ⊕



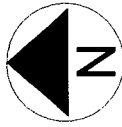
MW #	Top of Well Elevation
MW #1	(102.08)
MW #2	(101.93)
MW #3	(101.91)
MW #4	(102.38)
MW #1	(78.77) Groundwater Elevation as of 6/5/03.

1 INCH = 35 FT.
0 35 70 FT.

BP AMERICA PRODUCTION COMPANY BOYD GC # 1A NE/4 NW/4 SEC. 8, T31N, R10W, NMPM 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 REVISED BY: NJV FILENAME: 06-09-03-GW.SKF	GROUNDWATER CONTOUR MAP 06/03
---	--	---	--

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

FIGURE 3



WELL HEAD ⊕



METER HOUSE & SALES LINE

JULY-AUGUST 1994 EXCAVATION

APPARENT GROUNDWATER FLOW DIRECTION ~ N44.25W

MW #1 (79.24)

78.00

77.00

76.00

MW #3 (75.68)

75.00

MW #4 (74.30)

SOUND WALLS

~ N62.25W

COMPR.

~ N56.5W

TANK PIT

BERM

~ N48W

SEP

PROD TANK

BERM

ACCESS ROAD

TEST HOLE ADVANCED 10/02/02 TIME: 1238

MW #2 (79.07)

COMPRESSOR PIT DIMENSION: 14 x 12 FT.

BERM DIMENSION: 14 x 12 FT.

FENCE

CR 2470

ABOVE GROUND POWER LINE

1 INCH = 35 FT.

0 35 70 FT.

MW #	Top of Well Elevation
MW #1	(102.08)
MW #2	(101.93)
MW #3	(101.91)
MW #4	(102.38)
MW #1 (79.24)	Groundwater Elevation as of 11/11/03.

BP AMERICA PRODUCTION COMPANY

BOYD GC # 1A

NE/4 NW/4 SEC. 8, T31N, R10W, NMPM

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

REVISED BY: NUJ

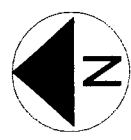
FILENAME: 11-11-03-GW.SKF

GROUNDWATER CONTOUR MAP

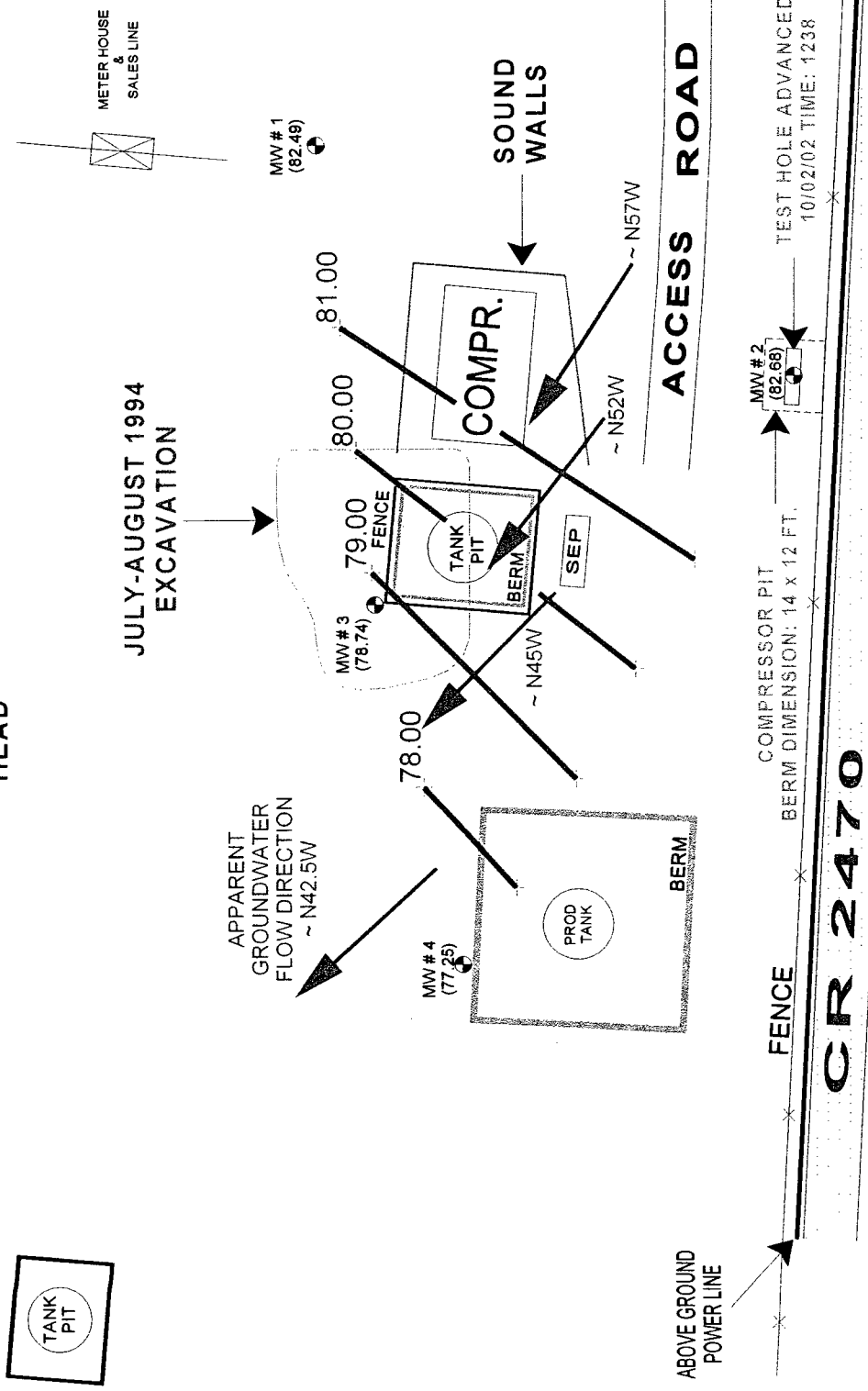
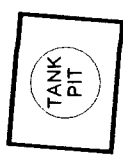
11/03

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

FIGURE 4



WELL HEAD ⊕



	Top of Well Elevation
MW #1	(102.08)
MW #2	(101.93)
MW #3	(101.91)
MW #4	(102.38)
MW #1 (82.49)	Groundwater Elevation as of 9/28/04.

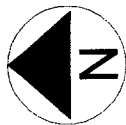
1 INCH = 35 FT.
0 35 70 FT.

BP AMERICA PRODUCTION COMPANY BOYD GC # 1A NE/4 NW/4 SEC. 8, T31N, R10W, NMPM SAN JUAN COUNTY, NEW MEXICO	PROJECT: MW SAMPLING REVISED BY: NJV FILENAME: 09-28-04-GW.SKF	BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199
--	---	---

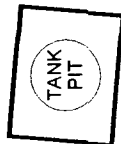
GROUNDWATER
CONTOUR
MAP
09/04

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

FIGURE 5



WELL HEAD ⊕



METER HOUSE & SALES LINE

JULY-AUGUST 1994 EXCAVATION

APPARENT GROUNDWATER FLOW DIRECTION ~ N61.25W

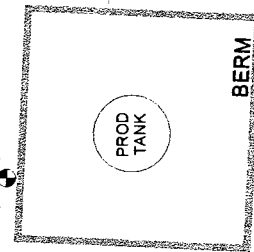
MW #1 (79.40)

78.00

77.00

76.00

MW #4 (74.57)



SOUND WALLS

COMPR.

ABOVE GROUND POWER LINE

FENCE

COMPRESSOR PIT
BERM DIMENSION: 14 x 12 FT.

MW #2 (79.62)

TEST HOLE ADVANCED
10/02/02 TIME: 1238

ACCESS ROAD

CR 2470

1 INCH = 35 FT.
0 35 70 FT.

Top of Well Elevation	
MW #1	(102.08)
MW #2	(101.93)
MW #3	(101.91)
MW #4	(102.38)
MW #1 (79.40)	Groundwater Elevation as of 6/23/06.

BP AMERICA PRODUCTION COMPANY

BOYD GC # 1A

NE/4 NW/4 SEC. 8, T31N, R10W, NMPM

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

REVISED BY: NJV

FILENAME: 06-23-05-GW.SKF

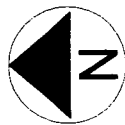
GROUNDWATER
CONTOUR
MAP

06/05

FIGURE 6

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

WELL HEAD



METER HOUSE & SALES LINE

JULY-AUGUST 1994 EXCAVATION

APPARENT GROUNDWATER FLOW DIRECTION ~ N46W

MW #1 (81.02)

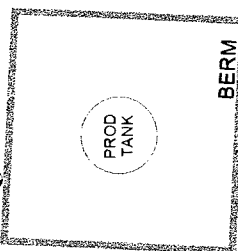
80.00

MW #3 (77.02)

78.00

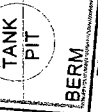
MW #4 (75.42)

SOUND WALLS



COMPR.

82.00



FENCE

SEP

ABOVE GROUND POWER LINE

ACCESS ROAD

TEST HOLE ADVANCED 10/02/02 TIME: 1238

MW #2 (83.34)

COMPRESSOR PIT BERM DIMENSION: 14 x 12 FT.

MW #1 (81.02)

Top of Well Elevation

MW #1 (102.08)

MW #2 (101.93)

MW #3 (101.91)

MW #4 (102.38)

Groundwater Elevation as of 6/28/06.

CR 2470

FENCE

1 INCH = 35 FT.

0 35 70 FT.

BP AMERICA PRODUCTION COMPANY

BOYD GC # 1A

NE/4 NW/4 SEC. 8, T31N, R10W, NMPM

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

REVISED BY: NJV

FILENAME: 06-28-06-GW.SKF

GROUNDWATER

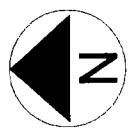
CONTOUR

MAP

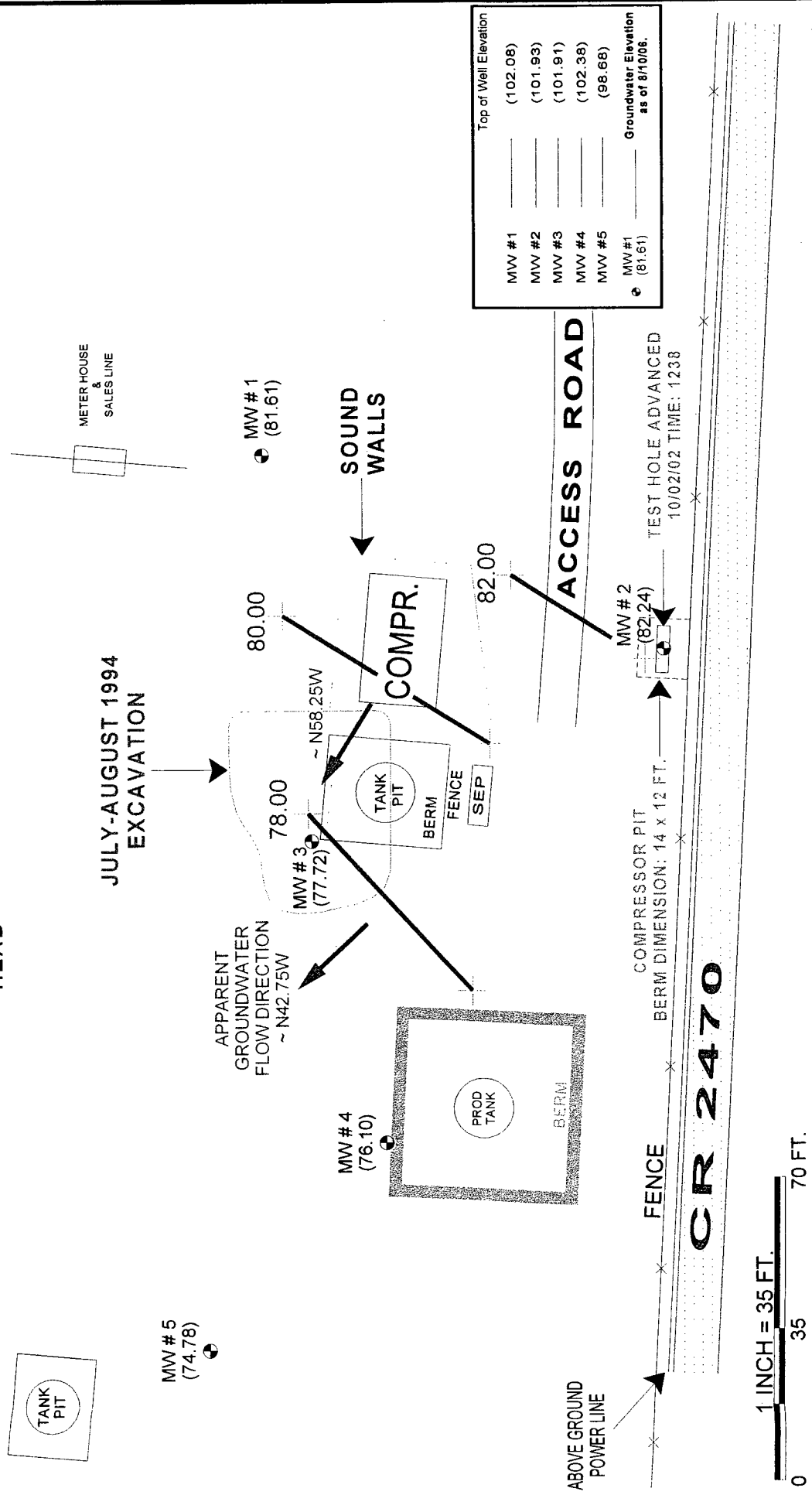
06/06

FIGURE 7

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



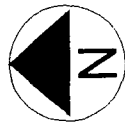
WELL HEAD ⊕



BP AMERICA PRODUCTION COMPANY BOYD GC #1A NE 1/4 NW 1/4 SEC. 8, T31N R10W NMPM SAN JUAN COUNTY, NEW MEXICO	BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1189	PROJECT: MW SAMPLING DRAFTED BY: NJV FILENAME: 08-10-06-GW.SKF REVISED: 08-15-06 NJV	GROUNDWATER CONTOUR MAP 08/06
--	--	---	--

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

FIGURE 8



WELL HEAD

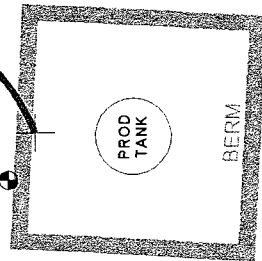


MW # 5
(72.48)

APPARENT
GROUNDWATER
FLOW DIRECTION
~ N51.25W

74.00

MW # 4
(73.64)



JULY-AUGUST 1994
EXCAVATION

76.00

MW # 1
(78.45)

78.00



SOUND
WALLS

COMPR.

ABOVE GROUND
POWER LINE

ACCESS ROAD

COMPRESSOR PIT
BERM DIMENSION: 14 x 12 FT.

MW # 2
(78.47)

TEST HOLE ADVANCED
10/02/02 TIME: 1238

CR 2470

1 INCH = 35 FT.
0 35 70 FT.

Top of Well Elevation	
MW # 1	(102.08)
MW # 2	(101.93)
MW # 3	(101.91)
MW # 4	(102.38)
MW # 5	(98.68)
MW # 1 (78.45)	Groundwater Elevation as of 11/15/06.

BP AMERICA PRODUCTION COMPANY

BOYD GC # 1A

NE/4 NW/4 SEC 8, T31N, R10W, NMPM

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

DRAFTED BY: NJV

FILENAME: 11-15-06-GW-SKF

REVISED: 11-26-06 NJV

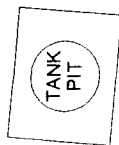
GROUNDWATER
CONTOUR
MAP

11/06

FIGURE 9

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

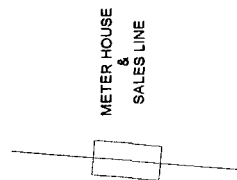
WELL HEAD ⊕



MW # 5
(70.33)

APPARENT
GROUNDWATER
FLOW DIRECTION
~ N71.75W

JULY-AUGUST 1994
EXCAVATION



MW # 1
(75.54)

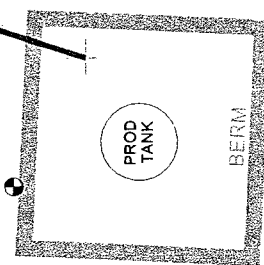
75.00

74.00

MW # 3
(73.00)
(DRY)

72.00

MW # 4
(71.21)



TANK
PIT

BERM

FENCE

SEP

COMPR.

SOUND
WALLS

ABOVE GROUND
POWER LINE

ACCESS ROAD

MW # 2
(75.14)

COMPRESSOR PIT

BERM DIMENSION: 14 x 12 FT.

TEST HOLE ADVANCED
10/02/02 TIME: 1238

CR 2470

1 INCH = 35 FT.
0 35 70 FT.

Top of Well Elevation	
MW # 1	(102.08)
MW # 2	(101.93)
MW # 3	(101.91)
MW # 4	(102.38)
MW # 5	(98.68)
MW # 1	(75.54)
Groundwater Elevation as of 1/24/07.	

BP AMERICA PRODUCTION COMPANY

BOYD GC # 1A

NE/4 NW/4 SEC. 8, T31N, R10W, NMPM

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

DRAFTED BY: NJV

FILENAME: 01-24-07-GW.SKF

REVISED: 01-26-07 NJV

GROUNDWATER

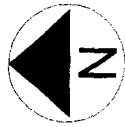
CONTOUR

MAP

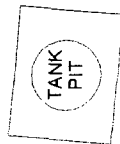
01/07

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

FIGURE 10



WELL HEAD



JULY-AUGUST 1994
EXCAVATION

METER HOUSE
&
SALES LINE

MW # 5
(69.39)

71.25

72.25

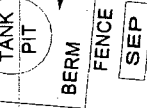
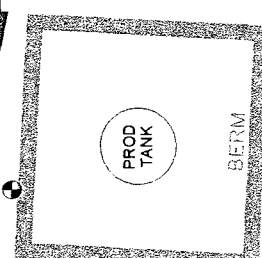
73.25

MW # 1
(73.45)

~ N79.25W

MW # 4
(69.94)

APPARENT
GROUNDWATER
FLOW DIRECTION
~ S87W



COMPR.

SOUND
WALLS

~ N83.25W

ABOVE GROUND
POWER LINE

FENCE

COMPRESSOR PIT
BERM DIMENSION: 14 x 12 FT.

MW # 2
(72.91)

TEST HOLE ADVANCED
10/02/02 TIME: 1238

ACCESS ROAD

CR 2470

1 INCH = 35 FT.
0 35 70 FT.

Top of Well Elevation	
MW # 1	(102.08)
MW # 2	(101.93)
MW # 3	(101.91)
MW # 4	(102.38)
MW # 5	(98.68)
MW # 1 (73.45)	Groundwater Elevation as of 4/18/07.

BP AMERICA PRODUCTION COMPANY
BOYD GC # 1A
NE 1/4 NW 1/4 SEC. 8, T31N, R10W, N14MPM
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
DRAFTED BY: NJV
FILENAME: 04-18-07-GW.SKF
REVISED: 04-18-07 NJV

GROUNDWATER
CONTOUR
MAP
04/07

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

BORING #..... BH - 2
MW #..... 1
PAGE #..... 2
DATE STARTED 12/13/02
DATE FINISHED
OPERATOR..... JCB
PREPARED BY NJV

CLIENT: BP AMERICA PRODUCTION COMPANY
LOCATION NAME: BOYD GC # 1A UNIT C, SEC. 8, T31N. R10W
CONTRACTOR: BLAGG ENGINEERING, INC.
EQUIPMENT USED: EARTHPROBE 200
BORING LOCATION: 123 FEET, S57.5E FROM WELL HEAD.

DEPTH (FT.)
INTERVAL
LITHOLOGY
INTERVAL
MW
SCHEMATIC

FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.20 FEET ABOVE GRADE.

DARK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM,
NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS
(0.0 - 19.5 FT. BELOW GRADE).

MODERATE YELLOWISH BROWN SAND AND GRAVEL, NON COHESIVE, SATURATED, NO
APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (19.5 - 20.5 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT SAND ONLY (20.5 - 26.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT SAND AND GRAVEL (26.0 - 27.0 FT. BELOW GRADE).

SAME AS ABOVE EXCEPT SAND ONLY (27.0 - 29.0 FT. BELOW GRADE).

LIGHT BROWN CLAY, MEDIUM PLASTIC, STIFF, SATURATED, NO APPARENT
HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (29.0 - 34.0 FT. BELOW GRADE).

NOTES:

- SAND.
- SAND AND GRAVEL.
- 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 2.2 ft. above grade to 17.3 ft. below grade,
0.010 slotted screen between 17.3 to 27.3 feet below grade, sand packed annular to 1 ft. below
grade, then bentonite powdered to surface. Locking cap with lock at top of casing.

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: **BOYD GC # 1A UNIT C, SEC. 8, T31N, R10W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **EARTHPROBE 200**
BORING LOCATION: **167 FEET, S20E FROM WELL HEAD.**

BORING #..... **BH - 1**
MW #..... **2**
PAGE #..... **1**
DATE STARTED **10/31/02**
DATE FINISHED
OPERATOR..... **JCB**
PREPARED BY **NJV**

DEPTH (FT.)
INTERVAL
LITHOLOGY INTERVAL
MW SCHEMATIC

FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.5 FEET ABOVE GRADE.

BACKFILL MATERIAL - DARK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 8.0 FT. BELOW GRADE).

SAMPLE 1 @ 10 FT. - CONDUCTED DURING SOIL REMOVAL ON 10/2/02; TIME COLLECTED 1238, OVM = **674** ppm; TPH = **1,930** ppm; Benzene = **135** ppb; Total BTEX = **2,920** ppb (see Pit Closure Field Report for additional information).

MEDIUM TO DARK GRAY SAND, NON COHESIVE, MOIST TO WET, STRONG HC ODOR DETECTED WITHIN CUTTINGS (8.0 - 19.5 FT. BELOW GRADE).

BH1 @ 19 FT. - CONDUCTED DURING DRILLING ON 10/31/02; TIME COLLECTED 1320, OVM = **870** ppm; TPH = **873** ppm.

BLACK SAND, NON COHESIVE, SATURATED, HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS - NOT AS POTENT AS ABOVE, (19.5 - 29.0 FT. BELOW GRADE).

LIGHT GRAY / MOD. YELLOWISH BROWN SAND, NON COHESIVE, SATURATED, VERY SLIGHT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (29.0 - 34.0 FT. BELOW GRADE).

NOTES:  - SAND.

OVM - organic vapor meter or PID (photoionization detector).
ppm - parts per million.
ppb - parts per billion.
TPH - total petroleum hydrocarbons (US Epa modified method 8015B).
BTEX - benzene, toluene, ethylbenzene, & total xylenes (US Epa method 8021B).
TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

OVM CALIBRATION:

52.3 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 10/29/02.
Time - 1310.

Monitor well consist of 2 inch PVC piping - casing from 2.5 ft. above grade to 17 ft. below grade, 0.010 slotted screen between 17.0 to 27.0 feet below grade, sand packed annular to 1 ft. below grade, then bentonite powdered to surface. Locking cap with lock at top of casing.

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: **BOYD GC # 1A UNIT C, SEC. 8, T31N, R10W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **EARTHPROBE 200**
BORING LOCATION: **79 FEET, S10E FROM WELL HEAD.**

BORING #..... **BH - 3**
MW #..... **3**
PAGE #..... **3**
DATE STARTED **12/13/02**
DATE FINISHED **12/13/02**
OPERATOR..... **JCB**
PREPARED BY **NJV**

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
2				TOP OF CASING APPROX. 2.00 FEET ABOVE GRADE.
4				BASED ON PIT CLOSURE NOTES, SOIL @ GROUND SURFACE TO APPROX. 12-18 FT. BELOW GRADE @ BORING LOCATION CONSIST OF REMEDIATED COMPOSTED SOIL FROM SEPARATOR PIT EXCAVATION CONDUCTED DURING JULY-AUGUST, 1994. COLLECTED COMPOSITE SAMPLE FROM CUTTINGS TO A TOTAL DEPTH OF 15 FT. BELOW GRADE.
6				SAMPLE ID: MW #3 - CS OVM READING = 0.0 ppm, TPH = ND ppm, time collected 1035.
8				DARK YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 20.0 FT. BELOW GRADE).
10				
12				
14				
16				
18				
20				
22				
24				
26				
28				
30				
32				
34				
36				
38				
40				
42				
44				
46				
48				
50				
52				
54				
56				
58				
60				

TOS 17.5 ft

TD 27.5 ft

MODERATE YELLOWISH BROWN SAND, NON COHESIVE, SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (19.5 - 20.5 FT. BELOW GRADE).

GRAVEL ENCOUNTERED @ 32.0 FT. BELOW GRADE.

NOTES:

- SAND.
- SAND AND GRAVEL.

OVM - organic vapor meter or PID (photoionization detector).
ppm - parts per million.
TPH - total petroleum hydrocarbons (US Epa modified method 8015B).
ND - Parameter not detected at the stated detection limits.
TOS - Top of screen of monitor well.
TD - Total depth/bottom extent of monitor well.

OVM CALIBRATION:
52.8 ppm; RF = 0.52
(RF = response factor).
100 ppm calibration gas
- isobutylene.
Date - 12/11/02.
Time - 1400.

Monitor well consist of 2 inch PVC piping - casing from 2.0 ft. above grade to 17.5 ft. below grade, 0.010 slotted screen between 17.5 to 27.5 feet below grade, sand packed annular to 1 ft. below grade, then bentonite powdered to surface. Locking cap with lock at top of casing.

BLAGG ENGINEERING, Inc.

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

BORE / TEST HOLE REPORT

CLIENT: **BP AMERICA PRODUCTION COMPANY**
LOCATION NAME: **BOYD GC # 1A UNIT C, SEC. 8, T31N, R10W**
CONTRACTOR: **BLAGG ENGINEERING, INC.**
EQUIPMENT USED: **EARTHPROBE 200**
BORING LOCATION: **113 FEET, S31W FROM WELL HEAD.**

BORING #..... **BH - 4**
MW #..... **4**
PAGE #..... **4**
DATE STARTED **01/16/03**
DATE FINISHED
OPERATOR..... **JCB**
PREPARED BY **NJV**

DEPTH (FT.)	INTERVAL	LITHOLOGY INTERVAL	MW SCHEMATIC	FIELD CLASSIFICATION AND REMARKS
				GROUND SURFACE
2				TOP OF CASING APPROX. 3.05 FEET ABOVE GRADE.
4				
6				DARK YELLOWISH BROWN SAND TO SILTY SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 11.0 FT. BELOW GRADE).
8				
10				
12				DARK YELLOWISH BROWN CLAY, NON PLASTIC, DRY, VERY STIFF, NO APPARENT HC ODOR DETECTED WITHIN CUTTINGS (11.0 - 12.0 FT. BELOW GRADE).
14				DARK YELLOWISH BROWN SILTY SAND, NON COHESIVE, SLIGHTLY MOIST TO MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (12.0 - 20.0 FT. BELOW GRADE).
16				
18				
20				MEDIUM TO DARK GRAY SAND, NON COHESIVE, MOIST TO WET, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (20.0 - 23.0 FT. BELOW GRADE).
22				
24				SAME AS ABOVE EXCEPT WITH GRAVEL & SATURATED (23.0 - 24.0 FT. BELOW GRADE).
26				
28				27.20 ft. BELOW GRADE ; MEASURED 1/21/03.
30				LIGHT GRAY / MOD. YELLOWISH BROWN SAND, NON COHESIVE, SATURATED, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (24.0 - 31.0 FT. BELOW GRADE).
32				
34				DARK YELLOWISH BROWN SAND & GRAVEL, NON COHESIVE, SATURATED, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (31.0 - 39.0 FT. BELOW GRADE).
36				
38				
40				
42				
44				
46				
48				
50				
52				
54				
56				
58				
60				

NOTES:

-  - SILTY SAND.
-  - SAND.
-  - SAND (DISCOLORED).
-  - VERY STIFF CLAY.
-  - SAND & GRAVEL (DISCOLORED).
-  - SAND & GRAVEL.
- 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 3.05 ft. above grade to 16.45 ft. below grade, 0.010 slotted screen between 16.45 to 31.45 feet below grade.

BLAGG ENGINEERING, Inc.

P.O. BOX 87

BLOOMFIELD, NM 87413

(505) 632-1199

BORE / TEST HOLE REPORT

CLIENT:

BP AMERICA PRODUCTION COMPANY

LOCATION NAME:

BOYD GC # 1A UNIT C, SEC. 8, T31N, R10W

CONTRACTOR:

BLAGG ENGINEERING, INC. / ENVIROTECH, INC.

EQUIPMENT USED:

MOBILE DRILL RIG (CME 75)

BORING LOCATION:

118 FEET, S63W FROM WELL HEAD.

BORING #..... BH - 5

MW #..... 5

PAGE #..... 5

DATE STARTED 7/24/06

DATE FINISHED 7/24/06

OPERATOR..... KP

PREPARED BY NJV

DEPTH
(FT.)

INTERVAL

LITHOLOGY
INTERVAL

MW
SCHEMATIC

FIELD CLASSIFICATION AND REMARKS

GROUND SURFACE

TOP OF CASING APPROX. 2.20 FEET ABOVE GRADE.

GRAYISH ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (0.0 - 26.0 FT. BELOW GRADE).

TOS 19.10 ft

MODERATE BROWN SAND, NON COHESIVE, WET TO SATURATED, LOOSE TO FIRM, NO APPARENT HC ODOR DETECTED PHYSICALLY WITHIN CUTTINGS (26.0 - 35.0 FT. BELOW GRADE).

TD 34.10 ft

NOTES:

- SAND.

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 2.2 ft. above grade to 19.1 ft. below grade, 0.010 slotted screen between 19.1 to 34.1 feet below grade, sand packed annular to 17.0 ft. below grade, bentonite chips from 15.0 to 17.0 ft., native fill from 3.0 to 15.0 ft., bentonite chips from 0.5 to 3.0 ft. Enclosed above grade casing with steel protector and secured with padlock.

DRAWING: BOYD-1A-BH5-MW5. SKF

DATE: 7/24/06

DWN BY: NJV

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client: Blagg / BP
Sample ID: BH 1 @ 19'
Laboratory Number: 24152
Chain of Custody No: 10279
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

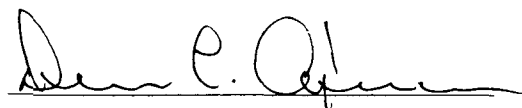
Project #: 94034-010
Date Reported: 11-01-02
Date Sampled: 10-31-01 02
Date Received: 11-01-02
Date Extracted: 11-01-02
Date Analyzed: 11-01-02
Analysis Requested: 8015 TPH

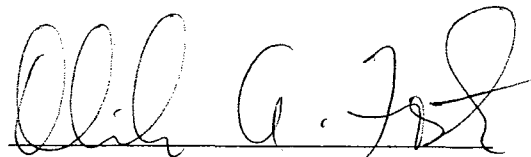
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	657	0.2
Diesel Range (C10 - C28)	216	0.1
Total Petroleum Hydrocarbons	873	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Boyd GC #1A Compressor Pit Grab Sample.**


Analyst


Review

67201

[illegible]

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-01-TPH QA/QC	Date Reported:	11-01-02
Laboratory Number:	24146	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-01-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF	C-Cal RF	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

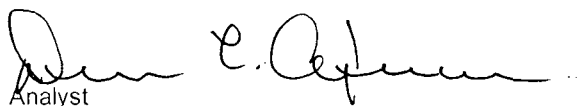
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	224	223	0.4%	0 - 30%
Diesel Range C10 - C28	6,300	6,280	0.3%	0 - 30%

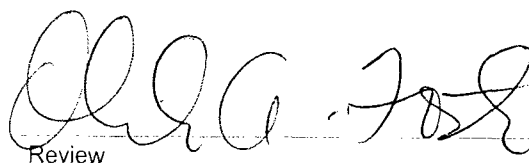
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	224	250	473	99.8%	75 - 125%
Diesel Range C10 - C28	6,300	250	6,540	99.8%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 24146 - 24152.


Analyst


Review

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #3 - CS	Date Reported:	12-17-02
Laboratory Number:	24417	Date Sampled:	12-13-02
Chain of Custody No:	10293	Date Received:	12-16-02
Sample Matrix:	Soil	Date Extracted:	12-16-02
Preservative:	Cool	Date Analyzed:	12-17-02
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

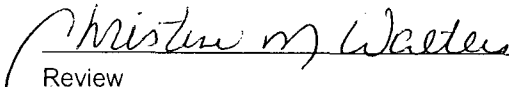
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Boyd GC #1A Separator Pit Composite Sample.**


Analyst


Review

10295

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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	12-17-TPH QA/QC	Date Reported:	12-17-02
Laboratory Number:	24417	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-17-02
Condition:	N/A	Analysis Requested:	TPH

	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-25-02	2.7355E-002	2.7328E-002	0.10%	0 - 15%
Diesel Range C10 - C28	04-25-02	2.4557E-002	2.4508E-002	0.20%	0 - 15%

Blank Conc. (mg/L - mg/Kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%
Diesel Range C10 - C28	ND	ND	0.0%	0 - 30%

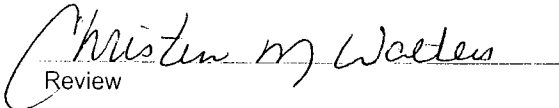
Spike Conc. (mg/Kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	ND	250	249	99.4%	75 - 125%
Diesel Range C10 - C28	ND	250	248	99.0%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for samples 24417 - 24420.


Analyst


Review

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P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

Date: 17-Oct-02

CLIENT: Blagg Engineering
Work Order: 0210009
Project: Boyd GC 1A
Lab ID: 0210009-001A

Client Sample Info: Boyd GC 1A
Tag Number: Gaines Well
Collection Date: 10/4/2002 10:45:00 AM
Matrix: AQUEOUS

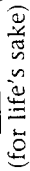
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: JEM
Benzene	ND	0.5		µg/L	1	10/10/2002
Toluene	ND	0.5		µg/L	1	10/10/2002
Ethylbenzene	ND	0.5		µg/L	1	10/10/2002
m,p-Xylene	ND	1.0		µg/L	1	10/10/2002
o-Xylene	ND	0.5		µg/L	1	10/10/2002

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above quantitation range

Page 1 of 1

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT



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(505) 327-1072 • FAX: (505) 327-1496

CHAIN OF CUSTODY RECORD

B

Page _____ of _____

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Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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ina ba, Ltd.

Date: 17-Oct-02

CLIENT: Blagg Engineering
Work Order: 0210009
Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_021010	SampType: MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A						
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58931						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Sample ID	LCS_021010	SampType: LCS	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A		
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58930		
Analyte		Result	PQL	SPK value	SPK Ref Val	%RPD	RPDLimit	Qual

Sample ID	021006-003AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A						
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58932						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0210009
Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	021006-003AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A						
Client ID: ZZZZZ		Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58933						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	328	2.5	200	125	102	76	114	329.7	0.518	20
Ethylbenzene	442.2	2.5	200	249.5	96.3	80	113	444.8	0.579	20
m,p-Xylene	403.2	5.0	400	3.844	99.8	73	118	404.6	0.346	20
o-Xylene	207.3	2.5	200	1.39	103	82	106	206.7	0.293	20
Toluene	212.4	2.5	200	3.848	104	80	110	212.9	0.259	20

Sample ID	CCV1_021010	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A					
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58926					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.38	0.50	20	0	107	85	115	0	0	
Ethylbenzene	21.78	0.50	20	0	109	85	115	0	0	
m,p-Xylene	43.49	1.0	40	0	109	85	115	0	0	
o-Xylene	21.74	0.50	20	0	109	85	115	0	0	
Toluene	21.85	0.50	20	0	109	85	115	0	0	

Sample ID	CCV2_021010	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A					
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58927					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	42.5	0.50	40	0	106	85	115	0	0	
Ethylbenzene	40.97	0.50	40	0	102	85	115	0	0	
m,p-Xylene	82.3	1.0	80	0	103	85	115	0	0	
o-Xylene	41.66	0.50	40	0	104	85	115	0	0	
Toluene	42.62	0.50	40	0	107	85	115	0	0	

Sample ID	CCV3_021010	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A					
Client ID:	ZZZZZ	Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58928					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	20.96	0.50	20	0	105	85	115	0	0	
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Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0210009
Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	CCV3_021010	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A					
Client ID: ZZZZZ		Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58928					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	20.79	0.50	20	0	104	85	115	0	0		
m,p-Xylene	41.12	1.0	40	0	103	85	115	0	0		
o-Xylene	20.75	0.50	20	0	104	85	115	0	0		
Toluene	21.1	0.50	20	0	105	85	115	0	0		

Sample ID	CCV5_021010	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 10/10/2002	Run ID: GC-1_021010A					
Client ID: ZZZZZ		Batch ID: R3971	TestNo: SW8021B		Analysis Date: 10/10/2002	SeqNo: 58929					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	21.26	0.50	20	0	106	85	115	0	0		
Ethylbenzene	21.77	0.50	20	0	109	85	115	0	0		
m,p-Xylene	42.17	1.0	40	0	105	85	115	0	0		
o-Xylene	22.16	0.50	20	0	111	85	115	0	0		
Toluene	22.24	0.50	20	0	111	85	115	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iina ba, Ltd.

Date: 17-Oct-02

CLIENT: Blagg Engineering

Work Order: 0210009

Project: Boyd GC 1A

Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ					
0210009-001A	103	96.6	98.9					
021006-003AMS	101	105	97.7					
021006-003AMSD	103	99.9	97.6					
CCV1_021010	102	97.0	100					
CCV2_021010	103	96.8	99.0					
CCV3_021010	103	98.1	100					
CCV5_021010	103	94.9 *	101					
LCS_021010	102	98.0	100					
MB_021010	103	94.6 *	101					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	82-112
4BCBZ	= 4-Bromochlorobenzene	95-124
FLBZ	= Fluorobenzene	84-114

* Surrogate recovery outside acceptance limits

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Date: 11-Nov-02

CLIENT: Blagg Engineering
Work Order: 0211001
Project: Boyd GC 1A
Lab ID: 0211001-001A

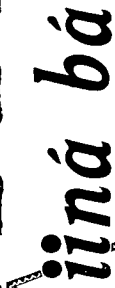
Client Sample Info: Boyd GC 1A
Client Sample ID: Harris
Collection Date: 10/31/2002 2:25:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: JEM
Benzene	ND	0.5		µg/L	1	11/8/2002
Ethylbenzene	ND	0.5		µg/L	1	11/8/2002
m,p-Xylene	ND	1.0		µg/L	1	11/8/2002
o-Xylene	ND	0.5		µg/L	1	11/8/2002
Toluene	ND	0.5		µg/L	1	11/8/2002

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

Page 1 of 1



for life's sake

Page 1 of 1[illegible]

ina ba, Ltd.

Date: 11-Nov-02

CLIENT: Blagg Engineering

Work Order: 0211001

Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_021108	SampType:	MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A				
Client ID:	ZZZZZ	Batch ID:	R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60147				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	0.0346	0.50									J
Ethylbenzene	0.0474	0.50									J
m,p-Xylene	ND	1.0									
o-Xylene	0.0449	0.50									J
Toluene	0.1161	0.50									J
Surr: 1,4-Difluorobenzene	112.9	0	110	0	103	82	114	0	0	0	
Surr: 4-Bromochlorobenzene	103.1	0	110	0	93.7	90	125	0	0	0	
Surr: Fluorobenzene	113.8	0	110	0	103	89	112	0	0	0	

Sample ID	LCS_021108	SampType:	LCS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	11/8/2002	Run ID:	GC-1_021108A
Client ID:	ZZZZZ	Batch ID:	R4084	TestNo:	SW8021B			Analysis Date:	11/8/2002	SeqNo:	60146
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	40.4	0.50	40	0.0346	101	88	105	0	0	0	
Ethylbenzene	41.89	0.50	40	0.0474	105	91	107	0	0	0	
m,p-Xylene	82.69	1.0	80	0	103	86	110	0	0	0	
o-Xylene	41.77	0.50	40	0.0449	104	89	105	0	0	0	
Toluene	39.72	0.50	40	0.1161	99	87	105	0	0	0	
Surr: 1,4-Difluorobenzene	112	0	110	0	102	82	114	0	0	0	
Surr: 4-Bromochlorobenzene	106.4	0	110	0	96.8	90	125	0	0	0	
Surr: Fluorobenzene	111.9	0	110	0	102	89	112	0	0	0	

Sample ID	0211002-003AMS	SampType:	MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A				
Client ID:	ZZZZZ	Batch ID:	R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60148				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	261.8	2.5	200	50.85	105	84	106	0	0	0	
Ethylbenzene	271.2	2.5	200	52.64	109	84	111	0	0	0	
m,p-Xylene	490.8	5.0	400	65.16	106	80	118	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0211001
Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	0211002-003AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A					
Client ID: ZZZZZ		Batch ID: R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60148					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	213.8	2.5	200	0.5875	107	83	108	0	0		
Toluene	217.4	2.5	200	11.31	103	86	105	0	0		
Surr: 1,4-Difluorobenzene	569.6	0	550	0	104	82	114	0	0		
Surr: 4-Bromochlorobenzene	514.5	0	550	0	93.5	90	125	0	0		
Surr: Fluorobenzene	559.5	0	550	0	102	89	112	0	0		

Sample ID	0211002-003AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A					
Client ID: ZZZZZ		Batch ID: R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60149					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	251.5	2.5	200	50.85	100	80	106	261.8	4.02	5	
Ethylbenzene	260.8	2.5	200	52.64	104	82	108	271.2	3.91	5	
m,p-Xylene	473	5.0	400	65.16	102	80	113	490.8	3.69	5	
o-Xylene	206.9	2.5	200	0.5875	103	82	105	213.8	3.29	4	
Toluene	209	2.5	200	11.31	98.9	83	105	217.4	3.92	5	
Surr: 1,4-Difluorobenzene	561.6	0	550	0	102	82	114	0	0	0	
Surr: 4-Bromochlorobenzene	520.2	0	550	0	94.6	90	125	0	0	0	
Surr: Fluorobenzene	561.5	0	550	0	102	89	112	0	0	0	

Sample ID	CCV1_021108	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	11/8/2002	Run ID:	GC-1_021108A
Client ID:	ZZZZZ	Batch ID:	R4084	TestNo:	SW8021B			Analysis Date:	11/8/2002	SeqNo:	60143
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.55	0.50	20	0	108	85	115	0	0		
Ethylbenzene	22.28	0.50	20	0	111	85	115	0	0		
m,p-Xylene	44.48	1.0	40	0	111	85	115	0	0		
o-Xylene	22.03	0.50	20	0	110	85	115	0	0		
Toluene	21.05	0.50	20	0	105	85	115	0	0		
Surr: 1,4-Difluorobenzene	112.8	0	110	0	103	82	114	0	0		
Surr: 4-Bromochlorobenzene	106.2	0	110	0	96.5	90	125	0	0		
Surr: Fluorobenzene	112.5	0	110	0	102	89	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Blagg Engineering
Work Order: 0211001
Project: Boyd GC 1A

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	CCV2_021108	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A					
Client ID: ZZZZZ		Batch ID: R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60144					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.84	0.50	40	0	107	85	115	0	0		
Ethylbenzene	43.8	0.50	40	0	109	85	115	0	0		
m,p-Xylene	86.07	1.0	80	0	108	85	115	0	0		
o-Xylene	43.52	0.50	40	0	109	85	115	0	0		
Toluene	41.85	0.50	40	0	105	85	115	0	0		
Surr: 1,4-Difluorobenzene	112.9	0	110	0	103	82	114	0	0		
Surr: 4-Bromochlorobenzene	105	0	110	0	95.4	90	125	0	0		
Surr: Fluorobenzene	113.3	0	110	0	103	89	112	0	0		

Sample ID	CCV3_021108	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 11/8/2002	Run ID: GC-1_021108A					
Client ID: ZZZZZ		Batch ID: R4084	TestNo: SW8021B		Analysis Date: 11/8/2002	SeqNo: 60145					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.44	0.50	20	0	107	85	115	0	0		
Ethylbenzene	21.99	0.50	20	0	110	85	115	0	0		
m,p-Xylene	43.44	1.0	40	0	109	85	115	0	0		
o-Xylene	21.92	0.50	20	0	110	85	115	0	0		
Toluene	20.95	0.50	20	0	105	85	115	0	0		
Surr: 1,4-Difluorobenzene	113.6	0	110	0	103	82	114	0	0		
Surr: 4-Bromochlorobenzene	105.7	0	110	0	96.1	90	125	0	0		
Surr: Fluorobenzene	114.3	0	110	0	104	89	112	0	0		

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

iina ba, Ltd.

Date: 11-Nov-02

CLIENT: Blagg Engineering

Work Order: 0211001

Project: Boyd GC 1A

Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ					
0211001-001A	104	96.3	104					
0211002-003AMS	104	93.5	102					
0211002-003AMSD	102	94.6	102					
CCV1_021108	103	96.5	102					
CCV2_021108	103	95.4	103					
CCV3_021108	103	96.1	104					
LCS_021108	102	96.8	102					
MB_021108	103	93.7	103					

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	82-114
4BCBZ	= 4-Bromochlorobenzene	90-125
FLBZ	= Fluorobenzene	89-112

* Surrogate recovery outside acceptance limits

iina ba, Ltd.

Sample Receipt Checklist

Client Name: **BLA1002**

Date and Time Received:

11/1/2002

Work Order Number: **0211001**

Received by: **DWC**

Checklist completed by:

Signature

Date

Reviewed by:

Initials

Date

Matrix:

Carrier name: Jeff Blagg

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

Not Present ☐

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 ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Adjusted? _____

Checked by: _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action: _____

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

CLIENT : BP AMER. PROD. CO.

CHAIN-OF-CUSTODY # : 12147

BOYD GC #1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : ON - SITE TECH.

Date : November 13, 2002

SAMPLER : N J V

Filename : 11-13-02.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)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
MW - 2	-	-	23.31	29.50	1235	6.84	700	1.25	-

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:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.).

2 bails per foot - small teflon bailer.

3 bails per foot - 3 / 4 " teflon bailer.

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

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Bailed to TD , then collected sample for BTEX @ 24.0 ft. Poor / fair recovery . HC odor physically
detected during purging . Water appearance - blackish tint with wisp of a sheen within purge
collection bucket .

Top of casing approx. 2.5 ft. above grade .

ANALYTICAL REPORT

IINA BA, LTD 3130
DAVE COX
612 E. MURRAY DRIVE
FARMINGTON, NM 87401

Lab Number: 02-A187879
Sample ID: 0211027-001A
Sample Type: Water
Site ID:

Project:
Project Name:
Sampler:

Boyd GC #1A, MW2

Date Collected: 11/13/02
Time Collected: 12:35
Date Received: 11/15/02
Time Received: 9:00
Page: 1

Analyte	Result	Units	Report Limit	Dil Factor	Analysis Date	Analysis Time	Analyst	Method	Batch
ORGANIC PARAMETERS									
Benzene	0.706	mg/l	0.0100	10.0	11/16/02	10:04	D.Ramey	8021B	2404
Ethylbenzene	0.0600	mg/l	0.0100	10.0	11/16/02	10:04	D.Ramey	8021B	2404
Toluene	0.597	mg/l	0.0100	10.0	11/16/02	10:04	D.Ramey	8021B	2404
Xylenes (Total)	0.959	mg/l	0.0100	10.0	11/16/02	10:04	D.Ramey	8021B	2404

Surrogate	% Recovery	Target Range
BTEX/GRO Surr., a,a,a-TFT	70.	69. - 132.

LABORATORY COMMENTS:

ND = Not detected at the report limit.
B = Analyte was detected in the method blank.
J = Estimated Value below Report Limit.
E = Estimated Value above the calibration limit of the instrument.
= Recovery outside Laboratory historical or method prescribed limits.

End of Sample Report.

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 1

Laboratory Receipt Date: 11/15/02

Matrix Spike Recovery

Note: If Blank is referenced as the sample spiked, insufficient volume was received for MS/MSD analysis for that method and the method requirements for MS/MSD analysis could not be met.

Analyte	units	Orig. Val.	MS Val	Spike Conc	Recovery	Target Range	Q.C. Batch	Spike Sample

UST ANALYSIS								
Benzene	mg/l	< 0.0005	0.0479	0.0500	96	74. - 129.	2404	BLANK
Toluene	mg/l	< 0.0006	0.0470	0.0500	94	74. - 128.	2404	BLANK
Ethylbenzene	mg/l	< 0.0006	0.0494	0.0500	99	75. - 128.	2404	BLANK
Xylenes (Total)	mg/l	< 0.0010	0.0912	0.100	91	72. - 126.	2404	BLANK
BTEX/GRO Surr., a,a,a-TFT	% Recovery				95	69. - 132.	2404	

Matrix Spike Duplicate

Analyte	units	Orig. Val.	Duplicate	RPD	Limit	Q.C. Batch

UST PARAMETERS						
Benzene	mg/l	0.0479	0.0469	2.11	15.	2404
Toluene	mg/l	0.0470	0.0464	1.28	15.	2404
Ethylbenzene	mg/l	0.0494	0.0488	1.22	15.	2404
Xylenes (Total)	mg/l	0.0912	0.0904	0.88	19.	2404
BTEX/GRO Surr., a,a,a-TFT	% Recovery		94.			2404

Laboratory Control Data

Analyte	units	Known Val.	Analyzed Val	% Recovery	Target Range	Q.C. Batch

UST PARAMETERS						
Benzene	mg/l	0.100	0.0933	93	74 - 124	2404
Toluene	mg/l	0.100	0.0918	92	74 - 121	2404
Ethylbenzene	mg/l	0.100	0.0970	97	75 - 123	2404
Xylenes (Total)	mg/l	0.200	0.176	88	72 - 120	2404

Project QC continued . . .

PROJECT QUALITY CONTROL DATA

Project Number:

Page: 2

Laboratory Receipt Date: 11/15/02

BTEX/GRO Surr., a,a,a-TFT % Recovery 92 69 - 132 2404

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
UST PARAMETERS					
Benzene	< 0.0005	mg/l	2404	11/16/02	1:00
Toluene	< 0.0006	mg/l	2404	11/16/02	1:00
Ethylbenzene	< 0.0006	mg/l	2404	11/16/02	1:00
Xylenes (Total)	< 0.0010	mg/l	2404	11/16/02	1:00

Blank Data

Analyte	Blank Value	Units	Q.C. Batch	Date Analyzed	Time Analyzed
-----	-----	-----	-----	-----	-----
UST PARAMETERS					
BTEX/GRO Surr., a,a,a-TFT	95.	% Recovery	2404	11/16/02	1:00

= Value outside Laboratory historical or method prescribed QC limits.

End of Report for Project 309350

TESTAMERICA, INC.-NASHVILLE

COOLER RECEIPT FORM

Client: ina ba, Ltd.

BC# 309350

Cooler Received On: 11/15/02 And Opened On: 11/15/02 By: MIKE MCBRIDE

Mike McBride
(Signature)

1. Temperature of Cooler when opened 40 Degrees Celsius
2. Were custody seals on outside of cooler?.....☒ YES NO N/A
 - a. If yes, how many, what kind and where: (1) Front
 - b. Were the seals intact, signed, and dated correctly?.....☒ YES NO N/A
3. Were custody seals on containers and intact?.....☒ NO YES N/A
4. Were custody papers inside cooler?.....☒ YES NO N/A
5. Were custody papers properly filled out (ink, signed, etc)?.....☒ YES NO N/A
6. Did you sign the custody papers in the appropriate place?.....☒ YES NO N/A
7. What kind of packing material used? ☒ Bubblewrap Peanuts Vermiculite ☒ Other None
8. Was sufficient ice used (if appropriate)?.....☒ YES NO N/A
9. Did all bottles arrive in good condition (unbroken)?.....☒ YES NO N/A
10. Were all bottle labels complete (#, date, signed, pres, etc)?.....☒ YES NO N/A
11. Did all bottle labels and tags agree with custody papers?.....☒ YES NO N/A
12. Were correct bottles used for the analysis requested?.....☒ YES NO N/A
13. a. Were VOA vials received?.....☒ YES NO N/A
 - b. Was there any observable head space present in any VOA vial?.....☒ NO YES N/A
14. Was sufficient amount of sample sent in each bottle?.....☒ YES NO N/A
15. Were correct preservatives used?.....☒ YES NO N/A
If not, record standard ID of preservative used here _____
16. Was residual chlorine present?.....NO YES ☒ N/A
17. Corrective action taken, if necessary:

See attached for resolution

iina ba, Ltd.

Sample Receipt Checklist

Client Name: BLA1002

Date and Time Received:

11/13/2002

Work Order Number: 0211027

Received by: HNR

Checklist completed by:

Signature

11/13/02
Date

Reviewed by:

Initials

11/26/02
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 ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

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 ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Adjusted?

Checked by:

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted:

Date contacted:

Person contacted:

Contacted by:

Regarding:

Comments:

Corrective Action:

ina ba, Ltd.

612 E. Murray Drive
Farmington, NM 87401
(505) 327-1072

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Subcontractor:

Test America, Inc.
2960 Foster Creighton Drive
Nashville, TN 372040566

TEL: (800) 765-0980
FAX: (615) 726-3404

Acct #: 3130

14-Nov-02

301350

Sample ID	Matrix	Collection Date	Bottle Type	SW8021B	Requested Tests				

0211027-001A	Aqueous	11/13/2002 12:35:00 PM	VOAHCL	1				02A	187879
--------------	---------	------------------------	--------	---	--	--	--	-----	--------

Comments:

Please analyze one (1) water sample for BTEX parameters using method SW8021B. 24-48 hr RUSH

Date/Time	
Relinquished by: <u>Heidi R</u>	Received by: <u>Walter Lee</u>
Relinquished by: _____	Received by: <u>Walter Lee</u>
11-15-02 @ 0900	

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & /OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT A, SEC. 8, T31N, R10W

Date : June 9, 2003

SAMPLER : N J V

Filename : 06-09-03.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	102.08	78.77	23.31	29.50	1130	6.96	700	-	3.00
MW - 2	101.93	78.87	23.06	29.50	1205	6.89	700	-	1.50
MW - 3	101.91	75.45	26.46	29.50	1100	6.92	600	-	1.50
MW - 4	-	-	28.09	34.50	1040	6.69	1,000	-	3.25

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/09/03 07:40

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Poor / fair recovery in MW # 2 , # 3 & # 4 , excellent recovery in MW # 1 . Blackish tint
observed during purging of MW # 2 . Bailed MW # 2 down to total depth , then allowed
recovery - DTW = 26.15 ft. @ time of sampling .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. above grade .

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering

Client Sample ID: MW#1

Lab Order: 0306073

Collection Date: 6/9/2003 11:30:00 AM

Project: Boyd GC #1A

Lab ID: 0306073-01

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	6/11/2003 9:57:45 AM
Toluene	ND	0.50		µg/L	1	6/11/2003 9:57:45 AM
Ethylbenzene	ND	0.50		µg/L	1	6/11/2003 9:57:45 AM
Xylenes, Total	ND	0.50		µg/L	1	6/11/2003 9:57:45 AM
Surr: 4-Bromofluorobenzene	98.2	74-118		%REC	1	6/11/2003 9:57:45 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering

Client Sample ID: MW#2

Lab Order: 0306073

Collection Date: 6/9/2003 12:05:00 PM

Project: Boyd GC #1A

Lab ID: 0306073-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	830	10		µg/L	20	6/11/2003 1:07:49 PM
Toluene	110	10		µg/L	20	6/11/2003 1:07:49 PM
Ethylbenzene	170	10		µg/L	20	6/11/2003 1:07:49 PM
Xylenes, Total	1800	10		µg/L	20	6/11/2003 1:07:49 PM
Surr: 4-Bromofluorobenzene	102	74-118		%REC	20	6/11/2003 1:07:49 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering

Client Sample ID: MW#3

Lab Order: 0306073

Collection Date: 6/9/2003 11:00:00 AM

Project: Boyd GC #1A

Lab ID: 0306073-03

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	6/11/2003 3:16:05 PM
Toluene	ND	0.50		µg/L	1	6/11/2003 3:16:05 PM
Ethylbenzene	ND	0.50		µg/L	1	6/11/2003 3:16:05 PM
Xylenes, Total	ND	0.50		µg/L	1	6/11/2003 3:16:05 PM
Surr: 4-Bromofluorobenzene	98.2	74-118		%REC	1	6/11/2003 3:16:05 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering

Client Sample ID: MW#4

Lab Order: 0306073

Collection Date: 6/9/2003 10:40:00 AM

Project: Boyd GC #1A

Lab ID: 0306073-04

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	15	0.50		µg/L	1	6/11/2003 11:32:49 AM
Toluene	ND	0.50		µg/L	1	6/11/2003 11:32:49 AM
Ethylbenzene	4.5	0.50		µg/L	1	6/11/2003 11:32:49 AM
Xylenes, Total	0.75	0.50		µg/L	1	6/11/2003 11:32:49 AM
Surr: 4-Bromofluorobenzene	103	74-118		%REC	1	6/11/2003 11:32:49 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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

ANALYSIS REQUEST

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering
Work Order: 0306073
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R8528	Test Code: SW8021	Units: µg/L	Analysis Date	6/11/2003 8:11:57 AM	Prep Date				
Client ID:		Run ID: PIDHALL_030611A			SeqNo:	192960					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND		0.50								
Toluene	ND		0.50								
Ethylbenzene	ND		0.50								
Xylenes, Total	ND		0.50								
Surr: 4-Bromofluorobenzene	20.49		0	20	0	102	74	118		0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering
Work Order: 0306073
Project: Boyd GC #1A

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID	0306073-01aMS	Batch ID: R8528	Test Code: SW8021	Units: µg/L	Analysis Date	6/11/2003 2:11:45 PM	Prep Date				
Client ID:	MW#1	Run ID:	PIDHALL_030611A	SeqNo:	192968						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.56	0.50	20	0	103	77	122	0			
Toluene	20.49	0.50	20	0	102	81	115	0			
Ethylbenzene	20.24	0.50	20	0	101	84	117	0			
Xylenes, Total	60.32	0.50	60	0	101	84	116	0			

Sample ID	0306073-01aMSD	Batch ID: R8528	Test Code: SW8021	Units: µg/L	Analysis Date	6/11/2003 2:43:49 PM	Prep Date				
Client ID:	MW#1	Run ID:	PIDHALL_030611A	SeqNo:	192969						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.7	0.50	20	0	108	77	122	20.56	5.40	27	
Toluene	21.84	0.50	20	0	109	81	115	20.49	6.37	19	
Ethylbenzene	21.07	0.50	20	0	105	84	117	20.24	4.01	10	
Xylenes, Total	59.98	0.50	60	0	100	84	116	60.32	0.571	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 18-Jun-03

CLIENT: Blagg Engineering

Work Order: 0306073

Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID: R8528	Test Code: SW8021	Units: µg/L	Analysis Date	6/11/2003 4:52:49 PM	Prep Date				
Client ID:		Run ID: PIDHALL_030611A			SeqNo:	192970					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.79	0.50	20	0	99.0	81.3	121	0			
Toluene	19.9	0.50	20	0	99.5	84.9	118	0			
Ethylbenzene	19.46	0.50	20	0	97.3	53.8	149	0			
Xylenes, Total	59.31	0.50	60	0	98.9	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Receive

Work Order Number **0306073**

Received by **AMG**

Checklist completed by

Abonzoles
Signature

6/11/03
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 ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
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?	11°	4° C ± 2 Acceptable	

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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : August 20, 2003

SAMPLER : N J V

Filename : 08-20-03.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	102.08	83.08	19.00	29.50	0810	7.21	900	16.7	5.25
MW - 2	101.93	83.82	18.11	29.50	0930	6.94	700	19.3	5.50
MW - 3	101.91	78.8	23.11	29.50	0748	7.08	900	16.6	3.25
MW - 4	102.38	77.12	25.26	34.50	0840	6.80	1,000	18.0	4.50

INSTRUMENT CALIBRATIONS =	7.00	2,800
DATE & TIME =	08/19/03	1554

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2"

Good / fair recovery in MW # 2 , excellent recovery in MW # 1 , # 3 , & # 4 . Blackish tint
observed during purging of MW # 2 . Bailed MW # 2 down to total depth , then allowed
recovery - DTW = 18.33 ft. @ time of sampling .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. above grade .

Hall Environmental Analysis Laboratory

Date: 28-Aug-03

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0308171

Lab ID: 0308171-01

Collection Date: 8/20/2003 8:10:00 AM

Client Sample ID: MW #1

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	8/25/2003 11:21:08 PM
Toluene	ND	0.50		µg/L	1	8/25/2003 11:21:08 PM
Ethylbenzene	ND	0.50		µg/L	1	8/25/2003 11:21:08 PM
Xylenes, Total	ND	0.50		µg/L	1	8/25/2003 11:21:08 PM
Surr: 4-Bromofluorobenzene	98.6	74-118		%REC	1	8/25/2003 11:21:08 PM

Lab ID: 0308171-02

Collection Date: 8/20/2003 9:30:00 AM

Client Sample ID: MW #2

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	58	10		µg/L	20	8/26/2003 6:15:42 PM
Toluene	ND	10		µg/L	20	8/26/2003 6:15:42 PM
Ethylbenzene	60	10		µg/L	20	8/26/2003 6:15:42 PM
Xylenes, Total	800	10		µg/L	20	8/26/2003 6:15:42 PM
Surr: 4-Bromofluorobenzene	122	74-118	S	%REC	20	8/26/2003 6:15:42 PM

Lab ID: 0308171-03

Collection Date: 8/20/2003 7:48:00 AM

Client Sample ID: MW #3

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	8/26/2003 12:22:03 AM
Toluene	ND	0.50		µg/L	1	8/26/2003 12:22:03 AM
Ethylbenzene	ND	0.50		µg/L	1	8/26/2003 12:22:03 AM
Xylenes, Total	ND	0.50		µg/L	1	8/26/2003 12:22:03 AM
Surr: 4-Bromofluorobenzene	100	74-118		%REC	1	8/26/2003 12:22:03 AM

Lab ID: 0308171-04

Collection Date: 8/20/2003 8:40:00 AM

Client Sample ID: MW #4

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	460	10		µg/L	20	8/26/2003 6:47:35 PM
Toluene	71	0.50		µg/L	1	8/26/2003 12:52:41 AM
Ethylbenzene	100	10		µg/L	20	8/26/2003 6:47:35 PM
Xylenes, Total	88	10		µg/L	20	8/26/2003 6:47:35 PM
Surr: 4-Bromofluorobenzene	105	74-118		%REC	20	8/26/2003 6:47:35 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenviromental.com

Fax #: (505) 632-3903

Date: 01/03	Time: 0700	Relinquished By: (Signature) <i>[Signature]</i>	Received By: (Signature) <i>[Signature]</i>
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)

[illegible]

Remarks:

Hall Environmental Analysis Laboratory

Date: 28-Aug-03

CLIENT: Blagg Engineering

Work Order: 0308171

Project: Boyd GC #1A

QC SUMMARY REPORT

Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R9343	Test Code: SW8021	Units: µg/L	Analysis Date	8/25/2003 9:16:56 AM	Prep Date				
Client ID:			Run ID: PIDFID_030825A		SeqNo:	210719					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	21.19	0	20	0	106	74	118	0			

Sample ID	Reagent Blank 5m	Batch ID: R9362	Test Code: SW8021	Units: µg/L	Analysis Date	8/26/2003 9:30:49 AM	Prep Date				
Client ID:			Run ID: PIDFID_030826A		SeqNo:	211096					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	19.81	0	20	0	99.1	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
I

Hall Environmental Analysis Laboratory

Date: 28-Aug-03

CLIENT: Blagg Engineering

Work Order: 0308171

Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID: R9343	Test Code: SW8021	Units: µg/L	Analysis Date	8/25/2003 6:45:46 PM	Prep Date				
Client ID:			Run ID: PIDFID_030825A		SeqNo:	210771					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.11	0.50	20	0	101	81.3	121	0			
Toluene	19.96	0.50	20	0	99.8	84.9	118	0			
Ethylbenzene	19.3	0.50	20	0	96.5	53.8	149	0			
Xylenes, Total	59.57	0.50	60	0	99.3	83.1	122	0			

Sample ID	BTEX Std 100ng	Batch ID: R9343	Test Code: SW8021	Units: µg/L	Analysis Date	8/26/2003 1:53:40 AM	Prep Date				
Client ID:			Run ID: PIDFID_030825A		SeqNo:	210773					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.82	0.50	20	0	104	81.3	121	20.11	3.47	27	
Toluene	20.92	0.50	20	0	105	84.9	118	19.96	4.70	19	
Ethylbenzene	20.17	0.50	20	0	101	53.8	149	19.3	4.38	10	
Xylenes, Total	61.91	0.50	60	0	103	83.1	122	59.57	3.85	13	

Sample ID	BTEX Std 100ng	Batch ID: R9362	Test Code: SW8021	Units: µg/L	Analysis Date	8/26/2003 7:19:17 PM	Prep Date				
Client ID:			Run ID: PIDFID_030826A		SeqNo:	211140					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.6	0.50	20	0	103	81.3	121	0			
Toluene	20.95	0.50	20	0	105	84.9	118	0			
Ethylbenzene	19.98	0.50	20	0	99.9	53.8	149	0			
Xylenes, Total	61.52	0.50	60	0	103	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

CLIENT: Blagg Engineering

Work Order: 0308171

Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID BTEX Std 100ng Batch ID: R9362 Test Code: SW8021 Units: µg/L Analysis Date 8/27/2003 3:35:46 AM Prep Date

Client ID: Run ID: PIDFID_030826A SeqNo: 211141

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.6	0.50	20	0	108	81.3	121	20.6	4.74	27	
Toluene	21.2	0.50	20	0	106	84.9	118	20.95	1.15	19	
Ethylbenzene	20.39	0.50	20	0	102	53.8	149	19.98	2.02	10	
Xylenes, Total	61.32	0.50	60	0	102	83.1	122	61.52	0.332	13	

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

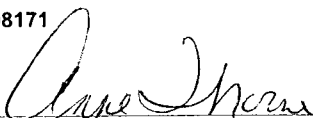
Date and Time Receive

8/21/03

Work Order Number **0308171**

Received by **AT**

Checklist completed by


Signature

Date

8/21/03

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 ☒
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☒
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?	8°	4° C ± 2 Acceptable	

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Hall Environmental Analysis Laboratory

Date: 28-Aug-03

CLIENT: Blagg Engineering

Project: Boyd GC #1A

Lab Order: 0308171

CASE NARRATIVE

Analytical Comments for METHOD 8021BTEX_W, SAMPLE 0308171-02a: Elevated surrogate due to matrix interference.

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT A, SEC. 8, T31N, R10W

Date : November 11, 2003

SAMPLER : N J V

Filename : 11-11-03.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	102.08	79.24	22.84	29.50	1020	7.17	900	15.2	3.25
MW - 2	101.93	79.07	22.86	29.50	-	-	-	-	-
MW - 3	101.91	75.68	26.23	29.50	1035	7.17	900	17.1	1.00
MW - 4	102.38	74.30	28.08	34.50	1050	7.00	1,000	16.6	1.75

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
11/11/03	0730

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 ".

Bailed MW # 3 & # 4 to T.D. , allowed recovery , then sampled . Excellent recovery in MW # 1 .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. above grade .

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering

Client Sample ID: MW#1

Lab Order: 0311095

Collection Date: 11/11/2003 10:20:00 AM

Project: Boyd GC #1A

Lab ID: 0311095-01

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	11/15/2003 4:45:55 AM
Benzene	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
Toluene	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
Ethylbenzene	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
Xylenes, Total	ND	0.50		µg/L	1	11/15/2003 4:45:55 AM
Surr: 4-Bromofluorobenzene	103	74-118		%REC	1	11/15/2003 4:45:55 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering

Client Sample ID: MW#3

Lab Order: 0311095

Collection Date: 11/11/2003 10:35:00 AM

Project: Boyd GC #1A

Lab ID: 0311095-02

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	11/15/2003 5:16:04 AM
Benzene	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
Toluene	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
Ethylbenzene	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
1,2,4-Trimethylbenzene	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
1,3,5-Trimethylbenzene	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
Xylenes, Total	ND	0.50		µg/L	1	11/15/2003 5:16:04 AM
Surr: 4-Bromofluorobenzene	102	74-118		%REC	1	11/15/2003 5:16:04 AM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering

Client Sample ID: MW#4

Lab Order: 0311095

Collection Date: 11/11/2003 10:50:00 AM

Project: Boyd GC #1A

Lab ID: 0311095-03

Matrix: AQUEOUS

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	50		µg/L	20	11/15/2003 5:46:17 AM
Benzene	270	10		µg/L	20	11/15/2003 5:46:17 AM
Toluene	ND	10		µg/L	20	11/15/2003 5:46:17 AM
Ethylbenzene	310	10		µg/L	20	11/15/2003 5:46:17 AM
1,2,4-Trimethylbenzene	160	10		µg/L	20	11/15/2003 5:46:17 AM
1,3,5-Trimethylbenzene	20	10		µg/L	20	11/15/2003 5:46:17 AM
Xylenes, Total	440	10		µg/L	20	11/15/2003 5:46:17 AM
Surr: 4-Bromofluorobenzene	101	74-118		%REC	20	11/15/2003 5:46:17 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

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

ANALYSIS REQUEST

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering
Work Order: 0311095
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/14/2003 8:31:34 AM	Prep Date				
Client ID:	SeqNo: 226805										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	20.43	0	20	0	102	74	118	0			

Sample ID	Reagent Blank 5m	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/14/2003 6:04:51 PM	Prep Date				
Client ID:	SeqNo: 226874										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Toluene	ND	0.50									
Ethylbenzene	ND	0.50									
Xylenes, Total	ND	0.50									
Surr: 4-Bromofluorobenzene	20.1	0	20	0	100	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
/

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering
Work Order: 0311095
Project: Boyd GC #1A

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID	0311095-02AMS	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/15/2003 6:16:46 AM	Prep Date				
Client ID: MW#3			Run ID: PIDFID_031114A		SeqNo: 226902						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.21	0.50	20	0	106	77	122	0			
Toluene	20.89	0.50	20	0	104	81	115	0			
Ethylbenzene	20.04	0.50	20	0	100	84	117	0			
Xylenes, Total	59.79	0.50	60	0	99.6	84	116	0			

Sample ID	0311095-02AMSD	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/15/2003 6:47:05 AM	Prep Date				
Client ID: MW#3			Run ID: PIDFID_031114A		SeqNo: 226903						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.13	0.50	20	0	106	77	122	21.21	0.404	27	
Toluene	20.22	0.50	20	0	101	81	115	20.89	3.22	19	
Ethylbenzene	20.04	0.50	20	0	100	84	117	20.04	0.000998	10	
Xylenes, Total	60.03	0.50	60	0	100	84	116	59.79	0.406	13	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 18-Nov-03

CLIENT: Blagg Engineering

Work Order: 0311095

Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX Std 100ng	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/14/2003 9:32:43 AM	Prep Date				
Client ID:		Run ID: PIDFID_031114A			SeqNo:	226872					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.84	0.50	20	0	109	81.3	121	0			
Toluene	21.87	0.50	20	0	109	84.9	118	0			
Ethylbenzene	21.58	0.50	20	0	108	53.8	149	0			
Xylenes, Total	64.07	0.50	60	0	107	83.1	122	0			

Sample ID	BTEX Std 100ng	Batch ID: R10113	Test Code: SW8021	Units: µg/L	Analysis Date	11/14/2003 8:07:05 PM	Prep Date				
Client ID:		Run ID: PIDFID_031114A			SeqNo: 226873						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.2	0.50	20	0	106	81.3	121	21.84	2.98	27	
Toluene	20.17	0.50	20	0	101	84.9	118	21.87	8.09	19	
Ethylbenzene	19.71	0.50	20	0	98.6	53.8	149	21.58	9.04	10	
Xylenes, Total	59.71	0.50	60	0	99.5	83.1	122	64.07	7.04	13	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

/

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

11/12/2003

Work Order Number 0311095

Received by

AMG

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : May 27, 2004

SAMPLER : N J V

Filename : 05-27-04.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	102.08	75.59	26.49	29.50	1400	6.80	900	20.1	1.50
MW - 2	101.93	75.17	26.76	29.50	1425	6.67	1,000	19.9	0.75
MW - 3	101.91	72.56	29.35	29.50	-	-	-	-	-
MW - 4	102.38	71.86	30.52	34.50	1410	6.87	1,000	21.2	1.00

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
05/27/04	1245

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".

Purged MW # 2 & # 4 to T.D., then allowed approx. 0.50 hrs. to recover prior to
collecting sample. Excellent recovery in MW # 1 only, however, # 1 contained
abundant amount of sediment (similar to initial development). Collected sample
for BTEX analysis from MW # 1, # 2, & # 4.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft. above grade.

Hall Environmental Analysis Laboratory

Date: 07-Jun-04

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0405254

Lab ID: 0405254-01

Collection Date: 5/27/2004 2:00:00 PM

Client Sample ID: MW #1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	6/4/2004 12:22:22 PM
Toluene	ND	0.50		µg/L	1	6/4/2004 12:22:22 PM
Ethylbenzene	ND	0.50		µg/L	1	6/4/2004 12:22:22 PM
Xylenes, Total	ND	0.50		µg/L	1	6/4/2004 12:22:22 PM
Surr: 4-Bromofluorobenzene	103	74-118		%REC	1	6/4/2004 12:22:22 PM

Lab ID: 0405254-02

Collection Date: 5/27/2004 2:25:00 PM

Client Sample ID: MW #2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	940	10		µg/L	20	6/4/2004 7:06:35 PM
Toluene	ND	10		µg/L	20	6/4/2004 7:06:35 PM
Ethylbenzene	200	10		µg/L	20	6/4/2004 7:06:35 PM
Xylenes, Total	1200	10		µg/L	20	6/4/2004 7:06:35 PM
Surr: 4-Bromofluorobenzene	106	74-118		%REC	20	6/4/2004 7:06:35 PM

Lab ID: 0405254-03

Collection Date: 5/27/2004 2:10:00 PM

Client Sample ID: MW #4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	5.1	0.50		µg/L	1	6/4/2004 6:35:38 PM
Toluene	ND	0.50		µg/L	1	6/4/2004 6:35:38 PM
Ethylbenzene	14	0.50		µg/L	1	6/4/2004 6:35:38 PM
Xylenes, Total	51	0.50		µg/L	1	6/4/2004 6:35:38 PM
Surr: 4-Bromofluorobenzene	107	74-118		%REC	1	6/4/2004 6:35:38 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 07-Jun-04

CLIENT: Blagg Engineering
Work Order: 0405254
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R12078	Test Code: SW8021	Units: µg/L	Analysis Date 6/4/2004 10:07:58 AM	Prep Date					
Client ID:			Run ID: PIDFID_040604A		SeqNo: 277970						
Analyte	Result	MQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND										
Toluene	ND										
Ethylbenzene	ND										
Xylenes, Total	ND										
Surr: 4-Bromofluorobenzene	19.89		20	0	99.4	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 07-Jun-04

CLIENT: Blagg Engineering
Work Order: 0405254
Project: Boyd GC #1A

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID	0405254-01a.ms	Batch ID: R12078	Test Code: SW8021	Units: µg/L	Analysis Date	6/4/2004 4:00:02 PM	Prep Date				
Client ID:	MW #1		Run ID: PIDFID_040604A		SeqNo: 277987						
Analyte	Result	SQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.24		20	0	96.2	77	122	0			
Toluene	20.05		20	0	100	81	115	0			
Ethylbenzene	19.63		20	0	98.1	84	117	0			
Xylenes, Total	60.48		60	0	101	84	116	0			
Surr: 4-Bromofluorobenzene	24.17		24	0	101	74	118	0			

Sample ID	0405254-01a	msd	Batch ID: R12078	Test Code: SW8021	Units: µg/L	Analysis Date	6/4/2004 4:31:19 PM	Prep Date			
Client ID: MW #1				Run ID: PIDFID_040604A		SeqNo: 277988					
Analyte	Result	SQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.12		20	0	95.6	77	122	19.24	0.652	27	
Toluene	19.88		20	0	99.4	81	115	20.05	0.806	19	
Ethylbenzene	19.61		20	0	98.0	84	117	19.63	0.0816	10	
Xylenes, Total	60.45		60	0	101	84	116	60.48	0.0519	13	
Surr: 4-Bromofluorobenzene	24.4		24	0	102	74	118	24.17	0.949	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 07-Jun-04

CLIENT: Blagg Engineering
 Work Order: 0405254
 Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R12078	Test Code: SW8021	Units: µg/L	Analysis Date	6/5/2004 3:44:45 AM	Prep Date				
Client ID:		Run ID:	PIDFID_040604A		SeqNo:	278029					
Analyte	Result	SQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.9		20	0	99.5	81.3	121	0			
Toluene	20.1		20	0	101	84.9	118	0			
Ethylbenzene	20.17		20	0	101	53.8	149	0			
Xylenes, Total	61.75		60	0	103	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

Work Order Number 0405254

Received by AMG

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT A, SEC. 8, T31N, R10W

Date : September 28, 2004

SAMPLER : N J V

Filename : 09-28-04.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	102.08	82.49	19.59	29.50	1052	7.20	900	18.0	5.00
MW - 2	101.93	82.68	19.25	29.50	-	-	-	-	-
MW - 3	101.91	78.74	23.17	29.50	1105	7.17	800	18.7	3.25
MW - 4	102.38	77.25	25.13	34.50	1135	6.91	700	20.6	4.50

INSTRUMENT CALIBRATIONS =

DATE & TIME =

7.00	2,800
09/27/04	0730

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 in all MW 's . Collected BTEX samples from MW # 1 , # 3 , & # 4 .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. above grade .

Hall Environmental Analysis Laboratory

Date: 07-Oct-04

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0409322

Lab ID: 0409322-01

Collection Date: 9/28/2004 10:52:00 AM

Client Sample ID: MW#1

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	10/5/2004 8:21:29 PM
Toluene	ND	0.50		µg/L	1	10/5/2004 8:21:29 PM
Ethylbenzene	ND	0.50		µg/L	1	10/5/2004 8:21:29 PM
Xylenes, Total	ND	0.50		µg/L	1	10/5/2004 8:21:29 PM
Surr: 4-Bromofluorobenzene	101	74-118		%REC	1	10/5/2004 8:21:29 PM

Lab ID: 0409322-02

Collection Date: 9/28/2004 11:05:00 AM

Client Sample ID: MW#3

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.50		µg/L	1	10/5/2004 10:21:18 PM
Toluene	ND	0.50		µg/L	1	10/5/2004 10:21:18 PM
Ethylbenzene	ND	0.50		µg/L	1	10/5/2004 10:21:18 PM
Xylenes, Total	ND	0.50		µg/L	1	10/5/2004 10:21:18 PM
Surr: 4-Bromofluorobenzene	98.7	74-118		%REC	1	10/5/2004 10:21:18 PM

Lab ID: 0409322-03

Collection Date: 9/28/2004 11:35:00 AM

Client Sample ID: MW#4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	140	0.50		µg/L	1	10/5/2004 11:20:55 PM
Toluene	ND	0.50		µg/L	1	10/5/2004 11:20:55 PM
Ethylbenzene	18	0.50		µg/L	1	10/5/2004 11:20:55 PM
Xylenes, Total	9.1	0.50		µg/L	1	10/5/2004 11:20:55 PM
Surr: 4-Bromofluorobenzene	101	74-118		%REC	1	10/5/2004 11:20:55 PM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 07-Oct-04

CLIENT: Blagg Engineering
Work Order: 0409322
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R13362	Test Code: SW8021	Units: µg/L	Analysis Date	10/5/2004 9:24:17 AM	Prep Date					
Client ID:		Run ID:	PIDFID_041005A		SeqNo:	310677						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene		ND	0.5									
Toluene		ND	0.5									
Ethylbenzene		ND	0.5									
Xylenes, Total		ND	0.5									
Surr: 4-Bromofluorobenzene		19.95	0	20	0	99.8	74	118	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 07-Oct-04

CLIENT: Blagg Engineering
Work Order: 0409322
Project: Boyd GC #1A

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID	0409322-01a.ms	Batch ID: R13362	Test Code: SW8021	Units: µg/L	Analysis Date	10/5/2004 9:21:34 PM	Prep Date				
Client ID: MW#1			Run ID: PIDFID_041005A		SeqNo: 310744						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.2	0.5	20	0	101	77	122	0			
Toluene	20.69	0.5	20	0	103	81	115	0			
Ethylbenzene	20.07	0.5	20	0	100	84	117	0			
Xylenes, Total	61.28	0.5	60	0	102	84	116	0			
Surr: 4-Bromofluorobenzene	24.31	0	24	0	101	74	118	0			

Sample ID	0409322-01a.ms	Batch ID: R13362	Test Code: SW8021	Units: µg/L	Analysis Date	10/5/2004 9:51:26 PM	Prep Date				
Client ID: MW#1			Run ID: PIDFID_041005A		SeqNo: 310753						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.26	0.5	20	0	96.3	77	122	20.2	4.76	27	
Toluene	19.67	0.5	20	0	98.4	81	115	20.69	5.02	19	
Ethylbenzene	19.47	0.5	20	0	97.3	84	117	20.07	3.04	10	
Xylenes, Total	59.02	0.5	60	0	98.4	84	116	61.28	3.75	13	
Surr: 4-Bromofluorobenzene	24.2	0	24	0	101	74	118	24.31	0.449	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank
/

Hall Environmental Analysis Laboratory

Date: 07-Oct-04

CLIENT: Blagg Engineering
Work Order: 0409322
Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX std 100ng	Batch ID: R13362	Test Code: SW8021	Units: µg/L	Analysis Date	10/6/2004 4:18:58 AM	Prep Date				
Client ID:		Run ID: PIDFID_041005A			SeqNo: 310763						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.5	0.5	20	0	97.5	81.3	121	0			
Toluene	19.79	0.5	20	0	99.0	84.9	118	0			
Ethylbenzene	19.5	0.5	20	0	97.5	53.8	149	0			
Xylenes, Total	58.49	0.5	60	0	97.5	83.1	122	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

Work Order Number 0409322

Received by AT

Checklist completed by

A. Gonzalez
Signature

09/30/04
Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	
Container/Temp Blank temperature?	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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : June 23, 2005

SAMPLER : N J V

Filename : 06-23-05.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	102.08	79.40	22.68	29.50	-	-	-	-	-
MW - 2	101.93	79.62	22.31	29.50	1005	6.82	1,100	19.5	1.75
MW - 3	101.91		-	29.50	-	-	-	-	-
MW - 4	102.38	74.57	27.81	34.50	0925	6.73	1,000	21.7	1.75

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

06/23/05 0630

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Poor to fair recovery in MW #2 & #4. Purged to TD, then allowed to recover before sampling.

Collected BTEX samples from MW #2 & #4 only.

Top of casing MW #1 ~ 2.20 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.00 ft., MW #4 ~ 3.05 ft. above grade.

Hall Environmental Analysis Laboratory

Date: 29-Jun-05

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0506240

Lab ID: 0506240-01

Collection Date: 6/23/2005 10:05:00 AM

Client Sample ID: MW #2

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: KTM
Benzene	1400	10		µg/L	20	6/27/2005 11:30:45 PM
Toluene	21	10		µg/L	20	6/27/2005 11:30:45 PM
Ethylbenzene	490	10		µg/L	20	6/27/2005 11:30:45 PM
Xylenes, Total	5500	25		µg/L	50	6/29/2005 3:59:59 AM
Surr: 4-Bromofluorobenzene	109	83.3-121		%REC	20	6/27/2005 11:30:45 PM

Lab ID: 0506240-02

Collection Date: 6/23/2005 9:25:00 AM

Client Sample ID: MW #4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: KTM
Benzene	0.68	0.50		µg/L	1	6/29/2005 4:30:37 AM
Toluene	0.59	0.50		µg/L	1	6/29/2005 4:30:37 AM
Ethylbenzene	2.0	0.50		µg/L	1	6/29/2005 4:30:37 AM
Xylenes, Total	ND	0.50		µg/L	1	6/29/2005 4:30:37 AM
Surr: 4-Bromofluorobenzene	99.2	83.3-121		%REC	1	6/29/2005 4:30:37 AM

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Client: BLAKE ENER. / BP America

Address: P.O. BOX 87
BLVD., NM 87413

Phone #: 632-1199
 Fax #: 632-3903

Date: 6/23/05 Time: 1005 Matrix: WATER Sample I.D. No.: MW # 2

Date: 6/23/05 Time: 0925 Matrix: WATER Sample I.D. No.: MW # 4

Date: 6/24/05 Time: 0835 Relinquished By: (Signature) [Signature]

Date: 6/24/05 Time: 0835 Relinquished By: (Signature) [Signature]

Accreditation Applied:
 NELAC ☐ USACE ☐

Other: BOYD GC # 1A

Project Name: BOYD GC # 1A

Project #: 215

Project Manager: NV

Sampler: NV

Sample Temperature: 2.0

Number/Volume: 2-40ml

HEAL No.: 0506240

Preservative: ✓

HgCl₂: ✓

HNO₃: ✓

Received By: (Signature) [Signature]

Received By: (Signature) [Signature]

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, NO₂, NO₃, PO₄, SO₄)
 8081 Pesticides / PCB's (8082)
 8260B (VOA)
 8270 (Semi-VOA)
 Air Bubbles or Headspace (Y or N)

Remarks:

Hall Environmental Analysis Laboratory

Date: 29-Jun-05

CLIENT: Blagg Engineering
Work Order: 0506240
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R15814	Test Code: SW8021	Units: µg/L	Analysis Date 6/27/2005 10:15:08 AM	Prep Date					
Client ID:			Run ID: PIDFID_050627A		SeqNo: 374760						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	20.22	0	20	0	101	83.3	121	0			

Sample ID	Reagent Blank 5m	Batch ID: R15826	Test Code: SW8021	Units: µg/L	Analysis Date 6/28/2005 10:11:52 AM	Prep Date					
Client ID:			Run ID: PIDFID_050628A		SeqNo: 375119						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	18.15	0	20	0	90.7	83.3	121	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 29-Jun-05

CLIENT: Blagg Engineering

Work Order: 0506240

Project: Boyd GC #1A

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID	BTEX LCS 2.5ug	Batch ID: R15814	Test Code: SW8021	Units: µg/L	Analysis Date	6/27/2005 1:55:44 PM	Prep Date				
Client ID:			Run ID: PIDFID_050627A		SeqNo:	374788					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.24	0.5	20	0	101	88.7	114	0			
Toluene	20.39	0.5	20	0	102	89.3	112	0			
Ethylbenzene	20.51	0.5	20	0	103	88.6	113	0			
Xylenes, Total	61.44	0.5	60	0	102	89.4	112	0			

Sample ID	BTEX LCS 100ng	Batch ID: R15826	Test Code: SW8021	Units: µg/L	Analysis Date	6/29/2005 5:01:22 AM	Prep Date				
Client ID:			Run ID: PIDFID_050628A		SeqNo: 375362						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.38	0.5	20	0	96.9	88.7	114	0			
Toluene	19.71	0.5	20	0	98.5	89.3	112	0			
Ethylbenzene	19.73	0.5	20	0	98.7	88.6	113	0			
Xylenes, Total	59.38	0.5	60	0	99.0	89.4	112	0			

Qualifiers: ND - Not Detected at the Reporting Limit S - Spike Recovery outside accepted recovery limits B - Analyte detected in the associated Method Blank
 J - Analyte detected below quantitation limits R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name **BLAGG**

Date and Time Received:

Work Order Number **0506240**

Received by **AMG**

Checklist completed by

Signature

Date

Matrix:

Carrier name: Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☒	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	N/A ☒	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	
Container/Temp Blank temperature?	2°	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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : September 20, 2005

SAMPLER : N J V

Filename : 09-20-05.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	102.08		-	29.50	-	-	-	-	-
MW - 2	101.93		-	29.50	-	-	-	-	-
MW - 3	101.91		-	29.50	-	-	-	-	-
MW - 4	102.38	75.10	27.28	34.50	1020	6.70	800	22.5	2.00

INSTRUMENT CALIBRATIONS =

7.00 2,800

DATE & TIME =

09/20/05 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 to fair recovery in MW # 4. Purged to TD, then allowed to recover before sampling.

Collected BTEX sample from MW # 4 only.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft. above grade.

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

CLIENT: Blagg Engineering
Lab Order: 0509224
Project: Boyd GC #1A
Lab ID: 0509224-01

Client Sample ID: MW#4
Collection Date: 9/20/2005 10:20:00 AM
Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	2.5		µg/L	1	9/23/2005 6:31:47 PM
Benzene	120	0.50		µg/L	1	9/23/2005 6:31:47 PM
Toluene	3.4	0.50		µg/L	1	9/23/2005 6:31:47 PM
Ethylbenzene	120	0.50		µg/L	1	9/23/2005 6:31:47 PM
1,2,4-Trimethylbenzene	120	0.50		µg/L	1	9/23/2005 6:31:47 PM
1,3,5-Trimethylbenzene	21	0.50		µg/L	1	9/23/2005 6:31:47 PM
Xylenes, Total	130	0.50		µg/L	1	9/23/2005 6:31:47 PM
Surr: 4-Bromofluorobenzene	107	82.2-119		%REC	1	9/23/2005 6:31:47 PM

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

CHAIN-OF-CUSTODY RECORD

Client: BLISS ENGR. / BL AMERICA

Address: P.O. BOX 87

BLVD. NM 87413

Phone #: 505-632-1199

Fax #:

Accreditation Applied:

NELAC ☐ USACE ☐

Other:

Project Name:

BOYO GC #1A

Project #:

25

Project Manager:

NV

Sampler:

NV

Sample Temperature:

3'

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂ HNO₃

HEAL No.

9/20/05

1020 WATER

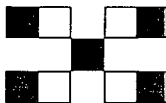
MW #4

2-40ml

✓

0809224

-1



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

ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline Only)

BTEX + MTBE + TMB's (80218)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

EDC (Method 8021)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₂, NO₃, PO₄, SO₄)

8081 Pesticides / PCB's (8082)

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles or Headspace (Y or N)

Remarks:

Date: 9/21/05

Time: 1000

Relinquished By: (Signature) [Signature]

Relinquished By: (Signature)

Received By: (Signature) [Signature]

Date: 9/24/05

Time: @ 1700

Received By: (Signature)

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

CLIENT: Blagg Engineering
Work Order: 0509224
Project: Boyd GC #1A

QC SUMMARY REPORT
Method Blank

Sample ID	Reagent Blank 5m	Batch ID: R16759	Test Code: SW8021	Units: µg/L	Analysis Date 9/23/2005 9:37:19 AM	Prep Date					
Client ID:			Run ID: PIDFID_050923A		SeqNo: 403397						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	2.5									
Benzene	ND	0.5									
Toluene	ND	0.5									
Ethylbenzene	ND	0.5									
1,2,4-Trimethylbenzene	ND	0.5									
1,3,5-Trimethylbenzene	ND	0.5									
Xylenes, Total	ND	0.5									
Surr: 4-Bromofluorobenzene	18.66	0	20	0	93.3	82.2	119	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 28-Sep-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

CLIENT: Blagg Engineering
 Work Order: 0509224
 Project: Boyd GC #1A

Sample ID	BTEX Ics 100ng	Batch ID: R16759	Test Code: SW8021	Units: µg/L	Analysis Date	9/23/2005 10:09:01 PM	Prep Date				
Client ID:			Run ID: PIDFID_050923A		SeqNo: 403402						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	23.97	2.5	20	0	120	64.5	133	0			
Benzene	18.83	0.5	20	0	94.1	88.5	114	0			
Toluene	19.17	0.5	20	0	95.9	87.2	114	0			
Ethylbenzene	19.35	0.5	20	0	96.7	88.6	113	0			
1,2,4-Trimethylbenzene	19.13	0.5	20	0	95.7	83.8	114	0			
1,3,5-Trimethylbenzene	18.83	0.5	20	0	94.1	82.8	114	0			
Xylenes, Total	39.79	0.5	40	0	99.5	83.3	114	0			

Qualifiers: ND - Not Detected at the Reporting Limit
 J - Analyte detected below quantitation limits
 S - Spike Recovery outside accepted recovery limits
 R - RPD outside accepted recovery limits
 B - Analyte detected in the associated Method Blank
 /

Hall Environmental Analysis Laboratory

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

9/21/2005

Work Order Number 0509224

Received by

GLS

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☒

No ☐

N/A ☐

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT : BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY # : N / A

BOYD GC # 1A - COMPRESSOR PIT

LABORATORY (S) USED : HALL ENVIRONMENTAL

UNIT A, SEC. 8, T31N, R10W

Date : June 28, 2006

SAMPLER : N J V

Filename : 06-28-06.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 - 1	102.08	81.02	21.06	29.50	-	-	-	-	-
MW - 2	101.93	83.34	18.59	29.50	1200	6.88	800	21.8	2.50
MW - 3	101.91	77.02	24.89	29.50	-	-	-	-	-
MW - 4	102.38	75.42	26.96	34.50	1130	6.80	900	23.6	3.75

INSTRUMENT CALIBRATIONS =
DATE & TIME =

7.00	2,800
06/26/06	0630

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Good to fair recovery in MW # 4 , fair recovery in MW # 2 . Purged MW # 2 to TD , then allowed to recover before sampling . Collected BTEX samples from MW # 2 & # 4 only .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 12-Jul-06

CLIENT: Blagg Engineering
Project: Boyd GC #1A**Lab Order:** 0606354**Lab ID:** 0606354-01**Collection Date:** 6/28/2006 12:00:00 PM**Client Sample ID:** MW #2**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	75	1.0		µg/L	1	7/10/2006 3:11:18 PM
Toluene	ND	1.0		µg/L	1	7/10/2006 3:11:18 PM
Ethylbenzene	ND	1.0		µg/L	1	7/10/2006 3:11:18 PM
Xylenes, Total	1600	150		µg/L	50	7/11/2006 10:52:14 AM
Surr: 4-Bromofluorobenzene	96.9	72.2-125		%REC	50	7/11/2006 10:52:14 AM

Lab ID: 0606354-02**Collection Date:** 6/28/2006 11:30:00 AM**Client Sample ID:** MW #4**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	7/11/2006 12:19:38 PM
Toluene	ND	1.0		µg/L	1	7/11/2006 12:19:38 PM
Ethylbenzene	ND	1.0		µg/L	1	7/11/2006 12:19:38 PM
Xylenes, Total	ND	3.0		µg/L	1	7/11/2006 12:19:38 PM
Surr: 4-Bromofluorobenzene	101	72.2-125		%REC	1	7/11/2006 12:19:38 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Boyd GC #1A

Work Order: 0606354

Analyte	Result	Units	PQL	%Rec	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Method: SW8021									
Sample ID: 5ML RB		MBLK							
					Batch ID: R19846		Analysis Date:		7/10/2006 8:44:37 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 5ML RB		MBLK							
					Batch ID: R19868		Analysis Date:		7/11/2006 8:11:30 AM
Benzene	ND	µg/L	1.0						
Toluene	ND	µg/L	1.0						
Ethylbenzene	ND	µg/L	1.0						
Xylenes, Total	ND	µg/L	3.0						
Sample ID: 100NG BTEX LCS		LCS							
					Batch ID: R19846		Analysis Date:		7/10/2006 1:14:32 PM
Benzene	19.16	µg/L	1.0	95.8	85	115			
Toluene	18.37	µg/L	1.0	90.3	85	118			
Ethylbenzene	19.10	µg/L	1.0	95.5	85	116			
Xylenes, Total	59.24	µg/L	3.0	96.2	85	119			
Sample ID: 100NG BTEX LCS		LCS							
					Batch ID: R19868		Analysis Date:		7/11/2006 7:20:12 PM
Benzene	18.97	µg/L	1.0	94.8	85	115			
Toluene	17.83	µg/L	1.0	89.1	85	118			
Ethylbenzene	18.23	µg/L	1.0	91.1	85	116			
Xylenes, Total	56.77	µg/L	3.0	93.1	85	119			
Sample ID: 100NG BTEX LCSD		LCSD							
					Batch ID: R19846		Analysis Date:		7/10/2006 6:40:10 PM
Benzene	19.17	µg/L	1.0	95.9	85	115	0.0730	27	
Toluene	17.96	µg/L	1.0	88.2	85	118	2.27	19	
Ethylbenzene	18.63	µg/L	1.0	93.2	85	116	2.46	10	
Xylenes, Total	59.62	µg/L	3.0	96.8	85	119	0.643	13	
Sample ID: 100NG BTEX LCSD		LCSD							
					Batch ID: R19868		Analysis Date:		7/11/2006 7:49:12 PM
Benzene	19.72	µg/L	1.0	98.6	85	115	3.88	27	
Toluene	19.09	µg/L	1.0	95.4	85	118	6.84	19	
Ethylbenzene	19.91	µg/L	1.0	99.6	85	116	8.83	10	
Xylenes, Total	61.88	µg/L	3.0	102	85	119	8.61	13	

Qualifiers:

E Value above quantitation range
J Analyte detected below quantitation limits
R RPD outside accepted recovery limits

H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
S Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

6/29/2006

Work Order Number 0606354

Received by AT

Checklist completed by

Signature

Date

6/29/06

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?	Yes ☒	No ☐	Not Present ☐	
Custody seals intact on shipping container/cooler?	Yes ☒	No ☐	Not Present ☐	Not Shipped ☐
Custody seals intact on sample bottles?	Yes ☐	No ☒	N/A ☐	
Chain of custody present?	Yes ☒	No ☐		
Chain of custody signed when relinquished and received?	Yes ☒	No ☐		
Chain of custody agrees with sample labels?	Yes ☒	No ☐		
Samples in proper container/bottle?	Yes ☒	No ☐		
Sample containers intact?	Yes ☒	No ☐		
Sufficient sample volume for indicated test?	Yes ☒	No ☐		
All samples received within holding time?	Yes ☒	No ☐		
Water - VOA vials have zero headspace?	No VOA vials submitted ☐	Yes ☒	No ☐	
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☒	
Container/Temp Blank temperature?	6°	4° C ± 2 Acceptable		If given sufficient time to cool.

COMMENTS:

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 & 14671

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL
ENVIROTECH, INC.

Date : August 10, 2006

SAMPLER : N J V

Filename : 08-10-06.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 - 1	102.08	81.61	20.47	29.50	-	-	-	-	-
MW - 2	101.93	82.24	19.69	29.50	-	-	-	-	-
MW - 3	101.91	77.72	24.19	29.50	-	-	-	-	-
MW - 4	102.38	76.1	26.28	34.50	-	-	-	-	-
MW - 5	98.68	74.78	23.90	36.30	1250	6.84	1,100	22.7	3.75

INSTRUMENT CALIBRATIONS =
DATE & TIME =

7.00	2,800
08/09/06	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 "

Fair / good recovery in MW # 5 . Purged MW # 5 to TD , then allowed recovery . Collected samples from up gradient residence (Gaines water well) . Both sample points analyzed for BTEX & major anions / cations . Gaines sample collected from spikot near mobile home . Purged for approx. one minute prior to collection .

Top of casing MW # 1 ~ 2.20 ft . , MW # 2 ~ 2.50 ft . , MW # 3 ~ 2.00 ft . , MW # 4 ~ 3.05 ft . , MW # 5 ~ 2.20 ft . above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 22-Aug-06

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0608167

Lab ID: 0608167-01

Collection Date: 8/10/2006 12:50:00 PM

Client Sample ID: MW #5

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	23	5.0		µg/L	5	8/18/2006 2:35:04 PM
Toluene	ND	5.0		µg/L	5	8/18/2006 2:35:04 PM
Ethylbenzene	11	5.0		µg/L	5	8/18/2006 2:35:04 PM
Xylenes, Total	15	15		µg/L	5	8/18/2006 2:35:04 PM
Surr: 4-Bromofluorobenzene	89.5	72.2-125		%REC	5	8/18/2006 2:35:04 PM

Lab ID: 0608167-02

Collection Date: 8/10/2006 1:15:00 PM

Client Sample ID: Gaines Well

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
----------	--------	-----	------	-------	----	---------------

EPA METHOD 8021B: VOLATILES

Analyst: NSB

Benzene	ND	1.0		µg/L	1	8/16/2006 4:44:22 PM
Toluene	ND	1.0		µg/L	1	8/16/2006 4:44:22 PM
Ethylbenzene	ND	1.0		µg/L	1	8/16/2006 4:44:22 PM
Xylenes, Total	ND	3.0		µg/L	1	8/16/2006 4:44:22 PM
Surr: 4-Bromofluorobenzene	109	72.2-125		%REC	1	8/16/2006 4:44:22 PM

Qualifiers: * Value exceeds Maximum Contaminant Level
E Value above quantitation range
J Analyte detected below quantitation limits
S Spike Recovery outside accepted recovery limits

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

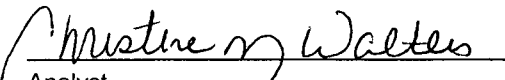
Client: Blagg / BP
 Sample ID: MW #5
 Laboratory Number: 38131
 Chain of Custody: 14671
 Sample Matrix: Water
 Preservative: Cool
 Condition: Cool & Intact

Project #: 94034-010
 Date Reported: 08-14-06
 Date Sampled: 08-10-06
 Date Received: 08-10-06
 Date Extracted: N/A
 Date Analyzed: 08-11-06

Parameter	Analytical Result	Units		
pH	6.69	s.u.		
Conductivity @ 25° C	1,080	umhos/cm		
Total Dissolved Solids @ 180C	720	mg/L		
Total Dissolved Solids (Calc)	790	mg/L		
SAR	1.4	ratio		
Total Alkalinity as CaCO3	660	mg/L		
Total Hardness as CaCO3	516	mg/L		
Bicarbonate as HCO3	660	mg/L	10.82	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	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	0.022	mg/L	0.00	meq/L
Chloride	24.0	mg/L	0.68	meq/L
Fluoride	0.51	mg/L	0.03	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	101	mg/L	2.10	meq/L
Iron	0.008	mg/L	0.00	meq/L
Calcium	168	mg/L	8.38	meq/L
Magnesium	23.4	mg/L	1.93	meq/L
Potassium	2.12	mg/L	0.05	meq/L
Sodium	74.9	mg/L	3.26	meq/L
Cations			13.62	meq/L
Anions			13.62	meq/L
Cation/Anion Difference			0.03%	

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: **Boyd GC #1A Grab Sample.**


 Analyst


 Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

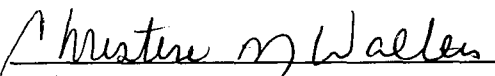
Client: Blagg / BP
Sample ID: Gaines Well
Laboratory Number: 38132
Chain of Custody: 14671
Sample Matrix: Water
Preservative: Cool
Condition: Cool & Intact

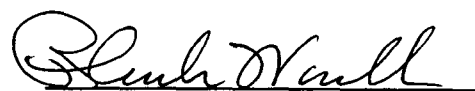
Project #: 94034-010
Date Reported: 08-14-06
Date Sampled: 08-10-06
Date Received: 08-10-06
Date Extracted: N/A
Date Analyzed: 08-11-06

Parameter	Analytical Result	Units		
pH	7.02	s.u.		
Conductivity @ 25° C	722	umhos/cm		
Total Dissolved Solids @ 180C	504	mg/L		
Total Dissolved Solids (Calc)	550	mg/L		
SAR	1.6	ratio		
Total Alkalinity as CaCO3	350	mg/L		
Total Hardness as CaCO3	312	mg/L		
Bicarbonate as HCO3	350	mg/L	5.74	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	<0.01	mg/L	0.00	meq/L
Nitrite Nitrogen	0.001	mg/L	0.00	meq/L
Chloride	31.0	mg/L	0.87	meq/L
Fluoride	0.82	mg/L	0.04	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	121	mg/L	2.52	meq/L
Iron	0.001	mg/L	0.00	meq/L
Calcium	106	mg/L	5.29	meq/L
Magnesium	11.7	mg/L	0.96	meq/L
Potassium	0.74	mg/L	0.02	meq/L
Sodium	66.0	mg/L	2.87	meq/L
Cations			9.14	meq/L
Anions			9.17	meq/L
Cation/Anion Difference			0.34%	

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: **Boyd GC #1A Grab Sample.**


Analyst


Review

CHAIN-OF-CUSTODY RECORD

Client: BLAGE ENER./BP AMERICA

Address: P.O. BOX 87

BLFD., NM 87413

Phone #: 632-1199

Fax #:

Date

Time

Matrix

Sample I.D. No.

Number/Volume

Preservative

HgCl₂

HNO₃

HEAL No.

0608167

1

2-40 ml

✓

✓

2

2-40 ml

✓

✓

2

2-40 ml

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14671

San Juan Reproduction 578-129

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Boyd GC #1A

Work Order: 0608167

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

Method: SW8021

Sample ID: B MBLK Batch ID: R20310 Analysis Date: 8/16/2006 10:48:28 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: B MBLK Batch ID: R20338 Analysis Date: 8/18/2006 11:25:59 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 100NG BTEX LCS LCS Batch ID: R20310 Analysis Date: 8/16/2006 7:12:02 PM

Benzene	18.87	µg/L	1.0	94.3	85	115
Toluene	19.11	µg/L	1.0	91.8	85	118
Ethylbenzene	20.35	µg/L	1.0	102	85	116
Xylenes, Total	63.16	µg/L	3.0	103	85	119

Sample ID: 100NG BTEX LCS LCS Batch ID: R20338 Analysis Date: 8/18/2006 11:16:46 PM

Benzene	19.36	µg/L	1.0	96.8	85	115
Toluene	20.85	µg/L	1.0	104	85	118
Ethylbenzene	21.85	µg/L	1.0	109	85	116
Xylenes, Total	67.30	µg/L	3.0	111	85	119

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:

8/11/2006

Work Order Number 0608167

Received by GLS

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

4°

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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : November 15, 2006

SAMPLER : N J V

Filename : 11-15-06.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 - 1	102.08	78.45	23.63	29.50	-	-	-	-	-
MW - 2	101.93	78.47	23.46	29.50	-	-	-	-	-
MW - 3	101.91	74.72	27.19	29.50	-	-	-	-	-
MW - 4	102.38	73.64	28.74	34.50	1510	7.08	800	14.4	2.00
MW - 5	98.68	72.48	26.20	36.30	1545	7.05	900	13.4	2.00

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 in both MW # 4 & # 5. Purged both to TD, then allowed recovery. Collected samples from MW # 4 & # 5 for BTEX analysis only. Orange tint (light & dark) appearance in MW # 4, light blackish tint appearance in MW # 5.

Top of casing MW # 1 ~ 2.20 ft., MW # 2 ~ 2.50 ft., MW # 3 ~ 2.00 ft., MW # 4 ~ 3.05 ft., MW # 5 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: 21-Nov-06

CLIENT: Blagg Engineering
Project: Boyd GC #1A

Lab Order: 0611234

Lab ID: 0611234-01

Collection Date: 11/15/2006 3:10:00 PM

Client Sample ID: MW#4

Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	29	1.0		µg/L	1	11/20/2006 5:57:56 PM
Toluene	ND	1.0		µg/L	1	11/20/2006 5:57:56 PM
Ethylbenzene	38	1.0		µg/L	1	11/20/2006 5:57:56 PM
Xylenes, Total	200	3.0		µg/L	1	11/20/2006 5:57:56 PM
Surr: 4-Bromofluorobenzene	94.4	70.2-105		%REC	1	11/20/2006 5:57:56 PM

Lab ID: 0611234-02

Collection Date: 11/15/2006 3:45:00 PM

Client Sample ID: MW#5

Matrix: AQUEOUS

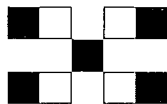
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	6.8	1.0		µg/L	1	11/20/2006 6:28:10 PM
Toluene	ND	1.0		µg/L	1	11/20/2006 6:28:10 PM
Ethylbenzene	2.9	1.0		µg/L	1	11/20/2006 6:28:10 PM
Xylenes, Total	ND	3.0		µg/L	1	11/20/2006 6:28:10 PM
Surr: 4-Bromofluorobenzene	92.2	70.2-105		%REC	1	11/20/2006 6:28:10 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

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

[illegible]

Remarks:

CHAIN-OF-CUSTODY RECORD										
QA/QC Package: Std ☐ Level 4 ☐ Other: _____										
Project Name: <u>BOYD GC #1A</u>										
Project #: <u>nv</u>										
Project Manager: <u>NV</u>										
Sampler: <u>NV</u>										
Sample Temperature: <u>3°</u>										
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No.			
					HgCl ₂	HNO ₃				
11/15/06	1510	WATER	MW # 4	2-40ml	✓		0611234	-1		
11/15/06	1545	WATER	MW # 5	2-40ml	✓			-2		
Date: <u>11/16/06</u>	Time: <u>1700</u>	Relinquished By: (Signature) <u>[Signature]</u>			Received By: (Signature) <u>[Signature]</u>			11/17/06		
Date: <u> </u>	Time: <u> </u>	Relinquished By: (Signature) <u> </u>			Received By: (Signature) <u> </u>			943		

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Boyd GC #1A

Work Order: 0611234

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	Spiking recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

11/17/2006

Work Order Number 0611234

Received by TLS

Checklist completed by

Signature

Date

Matrix

Carrier name Greyhound

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☒

No ☐

Not Present ☐

Not Shipped ☐

Custody seals intact on sample bottles?

Yes ☐

No ☐

N/A ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☐

No ☐

N/A ☒

Container/Temp Blank temperature?

3°

4° C ± 2 Acceptable

If given sufficient time to cool.

COMMENTS:

Client contacted

Date contacted:

Person contacted

Contacted by:

Regarding

Comments:

Corrective Action

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #: N / A

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED: HALL ENVIRONMENTAL

Date: January 24, 2007

SAMPLER: N J V

Filename: 01-24-07.WK4

PROJECT MANAGER: N J V

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 1	102.08	75.54	26.54	29.50	-	-	-	-	-
MW - 2	101.93	75.14	26.79	29.50	-	-	-	-	-
MW - 3	101.91		DRY	29.50	-	-	-	-	-
MW - 4	102.38	71.21	31.17	34.50	1015	7.14	800	10.4	1.50
MW - 5	98.68	70.33	28.35	36.30	0945	7.13	800	14.5	2.00

INSTRUMENT CALIBRATIONS =
DATE & TIME =

7.00	2,800
01/22/07	1115

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

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Fair recovery in MW #4, poor in MW #5. Purged both to TD, then allowed recovery. Collected samples from MW #4 & #5 for BTEX analysis only. Orange tint (light & dark) appearance in MW #4, light blackish tint appearance in MW #5.

Top of casing MW #1 ~ 2.20 ft., MW #2 ~ 2.50 ft., MW #3 ~ 2.00 ft., MW #4 ~ 3.05 ft., MW #5 ~ 2.20 ft. above grade.

Hall Environmental Analysis Laboratory, Inc.

Date: 30-Jan-07

CLIENT: Blagg Engineering
Project: Boyd GC #1A**Lab Order:** 0701313**Lab ID:** 0701313-01**Collection Date:** 1/24/2007 10:15:00 AM**Client Sample ID:** MW#4**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: LMM

Benzene	40	2.0		µg/L	2	1/27/2007 1:23:00 AM
Toluene	ND	2.0		µg/L	2	1/27/2007 1:23:00 AM
Ethylbenzene	140	2.0		µg/L	2	1/27/2007 1:23:00 AM
Xylenes, Total	1300	30		µg/L	10	1/29/2007 4:32:18 PM
Surr: 4-Bromofluorobenzene	86.9	70.2-105		%REC	2	1/27/2007 1:23:00 AM

Lab ID: 0701313-02**Collection Date:** 1/24/2007 9:45:00 AM**Client Sample ID:** MW#5**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
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EPA METHOD 8021B: VOLATILES

Analyst: LMM

Benzene	1.3	1.0		µg/L	1	1/29/2007 5:02:24 PM
Toluene	ND	1.0		µg/L	1	1/29/2007 5:02:24 PM
Ethylbenzene	ND	1.0		µg/L	1	1/29/2007 5:02:24 PM
Xylenes, Total	ND	3.0		µg/L	1	1/29/2007 5:02:24 PM
Surr: 4-Bromofluorobenzene	87.8	70.2-105		%REC	1	1/29/2007 5:02:24 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 1 / 3

B Analyte detected in the associated Method Blank

H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

RL Reporting Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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CHAIN-OF-CUSTODY RECORD					QA / QC Package:		
					☐ Std ☐ Level 4 ☐		
					Other: _____		
Client: <u>BLAGG ENER./BP AMERICA</u>					Project Name: <u>BOYD GC #1A</u>		
Address: <u>P.O. BOX 87</u>					Project #: _____		
<u>B.F.D. NM 87413</u>					Project Manager: <u>NV</u>		
Phone #: <u>632-1199</u>					Sampler: <u>NV</u>		
Fax #: _____					Sample Temperature: <u>30</u>		
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative HgCl ₂ HNO ₃		HEAL No.
<u>1/24/07</u>	<u>1015</u>	<u>WATER</u>	<u>MW #4</u>	<u>2-40ml</u>	<u>✓</u>		<u>0701313</u>
							<u>-1</u>
<u>1/24/07</u>	<u>0945</u>	<u>WATER</u>	<u>MW #5</u>	<u>2-40ml</u>	<u>✓</u>		<u>-2</u>
Relinquished By: (Signature) <u>[Signature]</u>				Received By: (Signature)		<u>1/26/07</u>	
Date: <u>1/25/07</u>				Time: <u>1110</u>		Relinquished By: (Signature) <u>[Signature]</u>	
Date: _____				Time: _____		Received By: (Signature) <u>[Signature]</u>	

QA/QC SUMMARY REPORT

Client: Blagg Engineering
 Project: Boyd GC #1A

Work Order: 0701313

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

Sample ID: 5ML RB

MBLK

Batch ID: R22287 Analysis Date: 1/26/2007 10:39:39 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 5ML RB

MBLK

Batch ID: R22296 Analysis Date: 1/29/2007 10:15:14 AM

Benzene	ND	µg/L	1.0
Toluene	ND	µg/L	1.0
Ethylbenzene	ND	µg/L	1.0
Xylenes, Total	ND	µg/L	3.0

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R22287 Analysis Date: 1/26/2007 12:10:12 PM

Benzene	17.99	µg/L	1.0	90.0	85.9	113
Toluene	18.70	µg/L	1.0	93.5	86.4	113
Ethylbenzene	18.92	µg/L	1.0	94.6	83.5	118
Xylenes, Total	56.87	µg/L	3.0	94.8	83.4	122

Sample ID: 100NG BTEX LCS

LCS

Batch ID: R22296 Analysis Date: 1/29/2007 11:45:38 AM

Benzene	18.78	µg/L	1.0	93.9	85.9	113
Toluene	19.57	µg/L	1.0	97.8	86.4	113
Ethylbenzene	19.78	µg/L	1.0	98.9	83.5	118
Xylenes, Total	58.91	µg/L	3.0	98.2	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:

1/26/2007

Work Order Number 0701313

Received by

TLS

Checklist completed by

Signature

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

BOYD GC # 1A - COMPRESSOR PIT
UNIT A, SEC. 8, T31N, R10W

LABORATORY (S) USED : HALL ENVIRONMENTAL

Date : April 18, 2007

SAMPLER : N J V

Filename : 04-18-07.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.)
MW - 1	102.08	73.45	28.63	29.50	-	-	-	-	-
MW - 2	101.93	72.91	29.02	29.50	-	-	-	-	-
MW - 3	101.91	-	DRY	29.50	-	-	-	-	-
MW - 4	102.38	69.94	32.44	34.50	1015	6.98	800	16.9	1.00
MW - 5	98.68	69.39	29.29	36.30	0945	6.90	900	17.0	1.75

INSTRUMENT CALIBRATIONS =
DATE & TIME =

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 in MW # 4, poor in MW # 5 . Purged both to TD , then allowed recovery . Collected samples from MW # 4 & # 5 for BTEX analysis only .

Top of casing MW # 1 ~ 2.20 ft. , MW # 2 ~ 2.50 ft. , MW # 3 ~ 2.00 ft. , MW # 4 ~ 3.05 ft. , MW # 5 ~ 2.20 ft. above grade .

Hall Environmental Analysis Laboratory, Inc.

Date: 23-Apr-07

CLIENT: Blagg Engineering
Project: Boyd GC #1A**Lab Order:** 0704290**Lab ID:** 0704290-01**Collection Date:** 4/18/2007 10:15:00 AM**Client Sample ID:** MW #4**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/20/2007 11:52:30 AM
Toluene	ND	1.0		µg/L	1	4/20/2007 11:52:30 AM
Ethylbenzene	1.6	1.0		µg/L	1	4/20/2007 11:52:30 AM
Xylenes, Total	ND	2.0		µg/L	1	4/20/2007 11:52:30 AM
Surr: 4-Bromofluorobenzene	87.2	70.2-105		%REC	1	4/20/2007 11:52:30 AM

Lab ID: 0704290-02**Collection Date:** 4/18/2007 9:45:00 AM**Client Sample ID:** MW #5**Matrix:** AQUEOUS

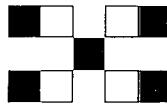
Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	1.0		µg/L	1	4/20/2007 5:08:48 AM
Toluene	ND	1.0		µg/L	1	4/20/2007 5:08:48 AM
Ethylbenzene	ND	1.0		µg/L	1	4/20/2007 5:08:48 AM
Xylenes, Total	ND	2.0		µg/L	1	4/20/2007 5:08:48 AM
Surr: 4-Bromofluorobenzene	90.4	70.2-105		%REC	1	4/20/2007 5:08:48 AM

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

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ANALYSIS REQUEST

BTEX + MTBE + TPH (Gasoline On	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 802.1)	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)
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Remarks:

CHAIN-OF-CUSTODY RECORD									
QA / QC Package: Std ☐ Level 4 ☐ Other: _____									
Client: <u>BLAUG ENER. / BP AMERICA</u>		Project Name: <u>6070 GC #1A</u>							
Address: <u>P.O. 60X 87</u>		Project #: <u>75</u>							
<u>B.F.D., NM 87413</u>		Project Manager: <u>NV</u>							
		Sampler: <u>NV</u>							
		Sample Temperature: <u>5"</u>							
				Number/Volume		Preservative		HEAL No.	
						HgCl ₂ HNO ₃			
Date: <u>4/13/07</u>	Time: <u>1015</u>	Matrix: <u>WATER</u>	Sample I.D. No.: <u>MW #4</u>	2-40ml		✓		0704290	
Date: <u>4/18/07</u>	Time: <u>0945</u>	Matrix: <u>WATER</u>	Sample I.D. No.: <u>MW #5</u>	2-40ml		✓		-1	
								-2	
Date: <u>4/18/07</u>	Time: <u>1325</u>	Relinquished By: (Signature) <u>Nelson Vif</u>		Received By: (Signature) <u>Jenny</u>				4/19/07	
Date: <u>4/18/07</u>	Time: <u>1325</u>	Relinquished By: (Signature)		Received By: (Signature)					

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Boyd GC #1A

Work Order: 0704290

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

Sample ID: 5ML REAGENT BLA MBLK Batch ID: R23300 Analysis Date: 4/19/2007 9:01:54 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-II MBLK Batch ID: R23300 Analysis Date: 4/19/2007 4:48:56 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: 5ML RB-II MBLK Batch ID: R23317 Analysis Date: 4/20/2007 8:23:53 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: 5ML RB-III MBLK Batch ID: R23317 Analysis Date: 4/21/2007 10:35:58 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 Batch ID: R23300 Analysis Date: 4/19/2007 4:18:49 PM

Benzene	19.38	µg/L	1.0	96.9	85.9	113
Toluene	19.56	µg/L	1.0	97.8	86.4	113
Ethylbenzene	19.78	µg/L	1.0	98.9	83.5	118
Xylenes, Total	59.03	µg/L	2.0	98.4	83.4	122

Sample ID: 100NG BTEX LCS-II Batch ID: R23300 Analysis Date: 4/19/2007 5:49:00 PM

Benzene	19.10	µg/L	1.0	95.5	85.9	113
Toluene	19.36	µg/L	1.0	96.8	86.4	113
Ethylbenzene	19.69	µg/L	1.0	98.4	83.5	118
Xylenes, Total	58.77	µg/L	2.0	98.0	83.4	122

Sample ID: 100NG BTEX LCS-II Batch ID: R23317 Analysis Date: 4/21/2007 2:54:23 AM

Benzene	18.80	µg/L	1.0	94.0	85.9	113
Toluene	19.18	µg/L	1.0	95.9	86.4	113
Ethylbenzene	19.30	µg/L	1.0	96.5	83.5	118
Xylenes, Total	57.44	µg/L	2.0	95.7	83.4	122

Sample ID: 100NG BTEX LCS-III Batch ID: R23317 Analysis Date: 4/21/2007 4:39:25 PM

Benzene	18.62	µg/L	1.0	93.1	85.9	113
Toluene	19.04	µg/L	1.0	95.2	86.4	113
Ethylbenzene	19.13	µg/L	1.0	95.6	83.5	118
Xylenes, Total	56.54	µg/L	2.0	94.2	83.4	122

Sample ID: 100NG BTEX LCSD Batch ID: R23300 Analysis Date: 4/20/2007 6:08:56 AM

Benzene	19.66	µg/L	1.0	98.3	85.9	113	1.41	27
Toluene	19.95	µg/L	1.0	99.8	86.4	113	1.97	19

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	Sample recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client: Blagg Engineering
Project: Boyd GC #1A

Work Order: 0704290

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

Sample ID: 100NG BTEX LCSD

LCSD

Batch ID: R23300 Analysis Date: 4/20/2007 6:08:56 AM

Ethylbenzene	20.36	µg/L	1.0	102	83.5	118	2.89	10
Xylenes, Total	60.67	µg/L	2.0	101	83.4	122	2.74	13

Sample ID: 100NG BTEX LCSD-I

LCSD

Batch ID: R23317 Analysis Date: 4/21/2007 5:09:27 PM

Benzene	18.92	µg/L	1.0	94.6	85.9	113	1.56	27
Toluene	19.27	µg/L	1.0	96.4	86.4	113	1.18	19
Ethylbenzene	19.29	µg/L	1.0	96.5	83.5	118	0.864	10
Xylenes, Total	57.53	µg/L	2.0	95.9	83.4	122	1.73	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	Spiking recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

Sample Receipt Checklist

Client Name BLAGG

Date and Time Received:

4/19/2007

Work Order Number 0704290

Received by

TLS

Checklist completed by

Signature

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