3R - 35

REPORTS

DATE:

12/2005

3110035

BP AMERICA PRODUCTION CO.

GROUNDWATER REMEDIATION REPORT

2003-2005

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

PREPARED FOR:
MR. GLENN VON GONTEN
NEW MEXICO OIL CONSERVATION DIVISION

DECEMBER 2005

PREPARED BY: BLAGG ENGINEERING, INC.

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

BP America Production Co. JONES A LS # 3 - Dehydrator Pit Sw/4 Ne/4 Sec. 15, T28N, R8W

Pit Closure Date: 3/20/03 (Documentation Included)

Monitor Well Installation Date: 5/28/04 (MW #2)

Monitor Well Sampling Dates: 6/14/04, 12/29/04, 3/28/05, 6/23/05

Site History:

Potential groundwater impacts were identified following closure of a dehydrator pit and installation of a monitor well in May, 2004. A groundwater monitor well installed in the source area to determine water depth and quality found impacts in excess of New Mexico Water Quality Control Commission (NMWQCC) standards. The water table aquifer is found at an approximate depth of 9 feet below ground surface. The Jones A LS #3 is located in a remote area and no domestic or municipal receptors are at risk. Agency notification of this remote impact was not made due to an administrative oversight. However, quarterly/annual sampling have been collected to quantify water quality parameters.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor well following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed in laboratory supplied 40 ml glass vials with teflon septa caps. Analysis included benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8020 or 8021. Samples were preserved cool and with either mercuric chloride or hydrochloric acid and express delivered to a qualified laboratory for testing. Waste generated during monitor well sampling and development was disposed of utilizing the production tank steel tank pit located on the well site.

Summary and/or Recommendations:

Further site delineation is indicated. However, only limited remedial efforts have been conducted and additional actions are indicated. Due to shallow groundwater, excavation is the recommended best available technology for site remediation and delineation of soil impacts. Following this remedial action, additional wells to determine residual water quality, groundwater flow direction, and extent of impacts will be necessary.

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District III</u>
1301 W. Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 Rio Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S. St. Francis Dr., Santa Fe, NM 87505

Printed Name/Title

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 March 12, 2004
and production facilities, submit to

Form C-144

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

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes 🛛 No 🗌 Type of action: Registration of a pit or below-grade tank \(\subseteq\) Closure of a pit or below-grade tank \(\subseteq\) (505) 326-9200 BP AMERICA PROD. CO. Telephone: Operator: 200 Energy Court, Farmington, NM 87410 **JONES A LS #3** 30-045-07469 U/L or Qtr/Qtr G Sec 15 T 28N l'acility or well name: Latitude 36.66470 Longitude 107.66436 NAD: 1927 ☐ 1983 ☑ Surface Owner Federal ☑ State ☐ Private ☐ Indian ☐ Below-grade tank ΙΉ Type: Drilling ☐ Production ☒ Disposal ☐ DEHYDRATOR Volume: bbl Type of fluid: Construction namerial Workover ☐ Emergency ☐ Double-walled with ak detection? hes If not, explain why not. I ined Unlined 🛛 Liner type: Synthetic Thickness mil Clay 🗌 Volume Less than 50 feet (20 points) Lepth to ground water (vertical distance from bottom of pit to seasonal high 50 feet or more, but less than 100 feet (10 points) 20 water elevation of ground water.) 100 feet or more (0 points) (20 points) V/ellhead protection area: (Less than 200 feet from a private domestic water 0 No (0 points) source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) 10 ir igation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) 30 Ranking Score (Total Points) If tis is a pit closure: (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: ons te offsite file If offsite, name of facility _. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No 🗌 Yes 🛛 If yes, show depth below ground surface fl. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations. It ereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines \(\times \), a general permit \(\times \), or an (attached) alternative OCD-approved plan \(\times \). 12/14/05 Jeff Blagg – P.E. # 11607 Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otl erwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or resulations. Ar proval:

D.			NEERING	•		LOCATION NO	D: B0068	
CLIENT: BP	P.O. BOX	87, BLO (505) 632		, NM 874	13	COCR NO:	10746	
FIELD REPORT	: PIT CL	OSURE	VERIF	CATIO	N	AGE No:	/ of _/	
LOCATION: NAME: JUI	VES A L	S WELL#:	3 TYPE	DEHY		DATE STARTED:	3-20-03	
QUAD/UNIT: 6 SEC: 15	TWP:28N RN	G: 8W PM: A	NM CNTY: S	J ST: NM		DATE FINISHED:		
QTR/FOOTAGE: 1460 N/1	,			,	\ IE	NVIRONMENTAL PECIALIST:	JCB	
EXCAVATION APPROX						ARDAGE:	0	
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD:								
LAND USE: RANGE			BISF 078			ATION:		
FIELD NOTES & REMAR			(IMATELY <u>8</u>				1	
DEPTH TO GROUNDWATER:			>1000		URFACE		000	
NMOCD RANKING SCORE: 3020	NMOCD TPH	CLOSURE STD:	100 PI		 		21	
SOIL AND EXCAVATION	N DESCRIPT	TION:		OVM CALIB.	GAS =	<u>/3/. 2</u> ppn <u>とら</u> ppm n/pm DATE:	RF = 0.52	
SOIL TYPE: SAND / SILTY SAN	ID / SILT / SILTY	CLAY / CLAY /	GRAVEL / OTH					
SOIL COLOR: (10 COHES): NON C					rax	@ 9		
CONSISTENCY (NON COHESIVE SO				CONLONE			- 1	
PLASTICITY (CLAYS): NON PLASTI				/ HIGHLY PLASTI	С			
DENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARD MOISTURE: DRY / SLIGHTLY MOIST (MOIST WET / SATURATED / SUPER SATURATED								
DISCOLORATION/STAINING OBSER	VED: (YES) NO EXI	PLANATION -	Black Co	6 BG	<u>-</u> S			
SAMPLE TYPE: GRAB J. COMPOSITE - # OF PTS.								
ADDITIONAL COMMENTS: Wood ITAPL PST W/ STEEL STORK, USE								
GROUNDWATER IMPACTED	Note: 100	se stemo	ulls - colla	psing Pre	vento	el depper	-sample T	
			LD 418.1 CALC					
SCALE SAMP. TR	ME SAMP. ID	LAB NO.	WEIGHT (g)	mL FREON	DILUT	IONREADING	G CALC. (ppm)	
0 FT								
N PIT PERIMET	FR				PI	 Γ PROFII	 F	
1 10		1	VM					
1 finell		SAMPLE	DING FIELD HEADSPACE					
12'-	>	1@9	(ppm)					
		2 @	213					
	,]	3 @ 4 @		_				
		5@						
	112			-				
				_				
								
	_ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	IARC	AMPLES	-				
		CAMPIE	NALYSIS TIME	=				
SAMAP	- Test 10		H/BTEX 1540	2				
9 BU	wargo	17PH=	FAILE	_				
P.D. = PIT DEPRESSION; B.G. = BELOW TH. = TEST HOLE; ~ = APPROX.; T.B. =	GRADE; B = BELOW	BT5x - 1	OZED)					
"RAVEL NOTES: CALLOUT	3/20/0	3 1155	ONSITE:	3/20/03	14	155		



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	DEHY #1 @ 9'	Date Reported:	03-22-03
Laboratory Number:	25147	Date Sampled:	03-20-03
Chain of Custody No:	10746	Date Received:	03-21-03
Sample Matrix:	Soil	Date Extracted:	03-21-03
Preservative:	Cool	Date Analyzed:	03-22-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	914	0.2
Diesel Range (C10 - C28)	89.6	0.1
Total Petroleum Hydrocarbons	1,000	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:

Jones A LS #3.

Analyst P. Qu

Review Mariatini M Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	DEHY #1 @ 9'	Date Reported:	03-22-03
Laboratory Number:	25147	Date Sampled:	03-20-03
Chain of Custody:	10746	Date Received:	03-21-03
Sample Matrix:	Soil	Date Analyzed:	03-22-03
Preservative:	Cool	Date Extracted:	03-21-03
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	492	1.8	
Toluene	1,630	1.7	
Ethylbenzene	1,180	1.5	
p,m-Xylene	1,720	2.2	
o-Xylene	1,920	1.0	
Total BTEX	6,940		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97 %
	1,4-difluorobenzene	97 %
	Bromochlorobenzene	97 %

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:

Jones A LS #3.

Analyst C. Cellina

Review, Review

CHAIN OF CUSTODY RECORD

10746

Client / Project Name			Project Location		,					Α	NALVO	C / DAD	AMETE	DC .				
BLAGG/BI	P		JONES 1	4 LS	#3					А	NALYSI	5 / PAH	IAMETE	no				1
Sampler:			Client No.				Ø								Rema	rks		
2.0-36	59		94034	4-01	0		No. of Containers	IT	37EX 3021								 _	1
Sample No./ Identification	Sample Date	Sample Time	Lab Number		Sample Matrix		Cont	494	\$ 32	_								
#1 @8°	3/20/03	1507	25146	, 5	POIL		1	X										
			<u> </u>														-	
#109°	11	1540	25147		11			X	\times	İ								-
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																		1
																		1
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Relinquished by: (Signatu	re)			i		Receiv	ed by: ((Signatu	re)									
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															Y		N N/A	
					796 U.S ngton, N				 				Rece	eived Intac	ا د	1		
				· wiiiii	(505)			J. 10					Cool -	lce/Blue lo	ce 2	+		



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	03-22-TPH QA/QC	Date Reported:	03-22-03
Laboratory Number:	25139	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	•		,, ,
	N/A	Date Analyzed:	03-22-03
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-0	002 2.7328E-002 0.10 %	0 - 15%
Diesel Range C10 - C28	04-25-02 2.4557E-0	002 2.4508E-002 0.20 %	0 - 15%
Blank Conc. (mg/L - mg/Kg)	Concentrati	ion Detection Lim	it
Gasoline Range C5 - C10	ND	0.2	27)
Diesel Range C10 - C28	ND	0.1	
Total Petroleum Hydrocarbons	ND	0.2	
Duplicate Conc. (mg/Kg)	Sample Duplicate	e % Difference Accept. Range	1 :
Gasoline Range C5 - C10	740 737	0.4% 0 - 30%	
Diesel Range C10 - C28	39.3 39.2	0.3% 0 - 30%	
		, <u>, , , , , , , , , , , , , , , , , , </u>	e grande de la companya de la compa
Spike Conc. (mg/Kg)	Sample Spike Add	ed Spike Result % Recovery	Accept. Range
Gasoline Range C5 - C10	740 250	988 99.8%	75 - 125%
Diesel Range C10 - C28	39 250	289 100%	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 25139 - 25147, 25155.

Machinet.

Review Mriotini M Walters



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A		Project #:		N/A	
Sample ID:	03-22-BTEX QA/QC	;	Date Reported:		03-22-03	
Laboratory Number:	25139		Date Sampled:		N/A	
Sample Matrix:	Soil		Date Received:		N/A	
Preservative:	N/A		Date Analyzed:		03-22-03	
Condition:	N/A		Analysis:		BTEX	
Calibration and	I-Cal RF:	C-Cal RF:	%Diff.	Blank	Detect.	1 100
Detection Limits (ug/L)	, was	Accept. Ran	ge 0 - 15%	Conc	Limit	٠ <u>٠</u> الـــــ
Benzene	4.1274E-002	4.1398E-002	0.3%	ND	0.2	
Toluene	4.8348E-002	4.8445E-002	0.2%	ND	0.2	
Ethylbenzene	7.9848E-002	8.0088E-002	0.3%	ND	0.2	
p,m-Xylene	7.6417E-002	7.6647E-002	0.3%	ND	0.2	
o-Xylene	7.1539E-002	7.1683E-002	0.2%	ND	0.1	
Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit	
Benzene	170	169	0.2%	0 - 30%	1.8	
Toluene	1,020	1,000	2.0%	0 - 30%	1.7	
Ethylbenzene	324	318	2.0%	0 - 30%	1.5	
p,m-Xylene	1,430	1,420	0.7%	0 - 30%	2.2	
o-Xylene	594	596	0.4%	0 - 30%	1.0	
Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range	لسا
Benzene	170	50.0	219	99.5%	39 - 150	
Toluene	1,020	50.0	1,060	99.1%	46 - 148	

ND - Parameter not detected at the stated detection limit.

References:

Ethylbenzene

p,m-Xylene

o-Xylene

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

50.0

100

50.0

1,520

372

642

99.4%

99.3%

99.7%

32 - 160

46 - 148

46 - 148

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 25139 - 25144, 25147, 25155.

1,430

324

594

BLAGG ENGINEERING, INC.

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

BORE / TEST HOLE REPORT

CLIENT:

29 30 31 LOCATION NAME: CONTRACTOR:

EQUIPMENT USED: BORING LOCATION:

BP AMERICA PRODUCTION COMPANY

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

BLAGG ENGINEERING, INC.

MOBILE DRILL RIG (EARTHPROBE 200)

81 FEET, S25E FROM WELL HEAD.

BORING #..... BH - 1

MW #..... 2

PAGE #..... 1

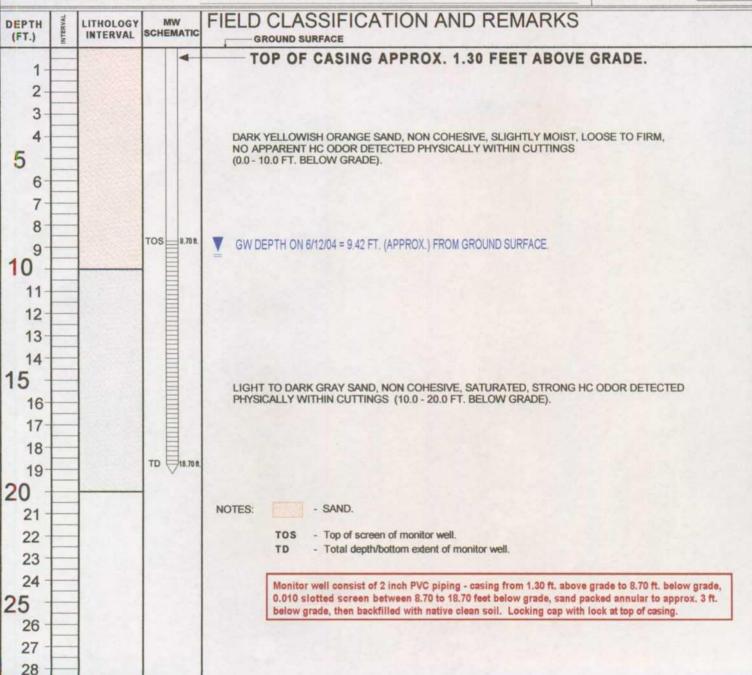
DATE STARTED 5/28/04

DATE FINISHED 5/28/04

OPERATOR..... JCB

PREPARED BY NJV

DRAWING: Jones A LS 3-BH1-MW2. SKF | DATE: 12/14/05 | DWN BY: NJV



BP AMERICA PROD. CO. GROUNDWATER LAB RESULTS

SUBMITTED BY BLAGG ENGINEERING, INC.

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

REVISED DATE: December 14, 2005

FILENAME: (J3-2Q05.WK4) NJV

								BTEX	EPA METH	IOD 8021B (ppb)
SAMPLE	WELL NAME or No.	D.T.W. (ft)	T.D. (ft)	TDS (mg/L)	COND. umhos	рН	PRODUCT (ft)	Benzene	Toluene	Ethyl Benzene	Total Xylene
14-Jun-04	MW #2	10.78	20.00		2,400	7.14		290	780	52	470
29-Dec-04		10.53			N/A	N/A		7.8	11	2.5	13
28-Mar-05		9.97			2,100	7.02		720	4,800	640	6,800
23-Jun-05		10.85			2,100	6.93		140	220	30	570
		NMW	QCC GF	ROUNDY	VATER S	TAND	ARDS	10	750	750	620

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

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

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO.

CHAIN-OF-CUSTODY #:

N/A

JONES A LS #3 - DEHY. PIT

LABORATORY (S) USED: HALL ENVIRONMENTAL

UNIT G, SEC. 15, T28N, R8W

SAMPLER:

NJV

Date: June 14, 2004 Filename: 06-14-04.WK4

PROJECT MANAGER:

NJV

			(gal.)
7.14	2,400	14.6	4.50
	7.14	7.14 2,400	7.14 2,400 14.6

INSTRUMENT CALIBRATIONS = 7.00

DATE & TIME = 06/14/04

2,800 0730

NOTES: Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores). (i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

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

Comments or note well diameter if not standard 2".

Excellent recovery. Collected sample for BTEX analysis only.

Top of casing MW #2 ~ 1.30 ft. above grade.

Date: 24-Jun-04

CLIENT:

Blagg Engineering

Lab Order:

0406135

Project:

Jones A LS #3

Lab ID:

0406135-01

Client Sample ID: MW #2

Collection Date: 6/14/2004 7:35:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL Qu	ual Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	290	10	μg/L	20	6/23/2004 6:17:11 PM
Toluene	780	10	μg/L	20	6/23/2004 6:17:11 PM
Ethylbenzene	52	10	μg/L	20	6/23/2004 6:17:11 PM
Xylenes, Total	470	10	μg/L	20	6/23/2004 6:17:11 PM
Surr: 4-Bromofluorobenzene	103	74-118	%REC	20	6/23/2004 6:17:11 PM

- * Value exceeds Maximum Contaminant Level
- S Spike Recovery outside accepted recovery limits
- R RPD outside accepted recovery limits
- E Value above quantitation range

			ODY RECORD	Accreditation Applied: NELAC U USACE U Other:									A l'	01 Hav	'SI S	NE,	BC Suit	PA1 e D	rory		
Client: Bui	AEG E	ENER./E	SP AMERICA	Project Name:	A	LS #							Tel.	Albuquerque, New Mexico 87109 Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com							
Address:	00.	Bov 8		Project #:			<u> </u>						AN	ALYS	IS	:I≡¢	UE	ST			
	LEO.	NM	87413				91 v-	_	3		}										
				Project Manager: ルゴン			TMB's (8021B)	(Gasoline On	as/Diesel)					PO, SO,)	's (8082)					ce (Y or N)	
hone #: ax #:	505-	-63Z-	- //99 3903	Sampler: Sample Temperat	ル プレ ure:	2/00		┨╊	3E + TPH (8015B (G	d 418.1)	d 504.1)	d 8021)	or PAH)	NO, NO,	ides / PCB	a	-V0A)			Bubbles or Headspace (Y
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Pre	servative	HEAL No.	BTEX 2-MIBE	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH) RCRA 8 Metals	Anions (F, Cl, NO., NO., PO.,	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)			Air Bubbles
4/04	0135	WATER	MW #2	2-40m/	1		0406135-1	V				-									
																					
								-					_								
								1					1						+		
Date	Time	Dolinguish	d Ruy (Cignostura)	Inadius	Pur (Ci-	nature)//	6110161														
Date: 4/54 Date:	Time: クタンク Time:	//	By: (Signature) d By: (Signature)	Received	! Mus	MK	611464	Hen 	narks:												

Date: 24-Jun-04

CLIENT:

Blagg Engineering

Work Order:

0406135

Project:

Jones A LS #3

QC SUMMARY REPORT

Method Blank

Sample ID Reagent Blank 5m	Batch ID: R12252	Test Code	SW8021	Units: µg/L		Analysis	Date 6/23	/2004 9:55:37 AM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0406	23A		SeqNo:	2820	31			
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	20.24		20	0	101	74	118	0			

Date: 24-Jun-04

CLIENT:

Blagg Engineering

Work Order:

0406135

Project:

Jones A LS #3

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID BTEX std 100ng	Batch ID: R12252	Test Code:	SW8021	Units: µg/L		Analysis	Date 6/23	/2004 7:51:10 PM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0406	323A		SeqNo:	2820	37			
Analyte	Result	MQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.1		20	0	95.5	81.3	121	0			
Toluene	19.01		20	0	95.1	84.9	118	0			
Ethylbenzene	18.95		20	0	94.7	53.8	149	0			
Xylenes, Total	58.09		60	0	96.8	83.1	122	0			

Sample Receipt Checklist

	Received by		
	Neceived by	, AT	
6	114/1		
Date	1110		
ame <u>Greyhound</u>			
Yes 🗹	No 🗆	Not Present	
Yes 🗌	No 🗆	Not Present 🗹	Not Shipped
Yes 🗌	No 🗹	N/A	
Yes 🔽	No 🗆		
Yes 🔽	No 🗆		
Yes 🗹	No 🗆		
Yes 🗹	No 🗆		
Yes 🗹	No 🗆		
Yes 🗹	No 🗆		
Yes 🗹	No 🗆		
s submitted	Yes 🗹	No 🗆	
Yes 🗌	No 🗆	N/A 🗹	
4°	•		
	· — — — — —		
d:	Pe	rson contacted	
	Yes V Tes V Yes V Yes V Yes V Tes V Yes V Yes V Tes V Yes V Tes V Yes V Tes V	Yes	Yes No Not Present Not Present Not Not Present Not Prese

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT :	BP AME	<u>RICA_Pi</u>	ROD, CO	<u>v</u>	C	HAIN-OF-C	CUSTODY # :	N	/ A
	LS #3 - D SEC. 15, T2				LAE	BORATORY	(S) USED:	HALL ENVI	RONMENTAL
Date .	December 12-29-04.W	29, 2004			ļ	PROJECT	SAMPLER :		J V
WELL. #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 2	-	-	10.53	20.00	1055	N/A	N/A	N/A	4.75
NOTES :	(i.e. 2" MW Ideally a mi	r = (1/12) ft nimum of ti 2.00 " well	d from well . h = 1 ft.) hree (3) well diameter =	DATE prior to sa (i.e. 4" MW bore volum 0.49 gallon	r = (2/12) ft. es: s per foot o	h = 1 ft.)	X 7.48 gal./ft3	X 3 (wellbo	res).
			diameter if			only .			
	Top of casi	ing MW #2	~ 1.30 ft. al	bove grade	•				

CLIENT:

Blagg Engineering

Lab Order:

0501005

Project:

Jones A LS #3

Lab ID:

0501005-01

Date: 06-Jan-05

Client Sample ID: MW #2

Collection Date: 12/29/2004 10:55:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL Qua	al Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	7.8	0.50	µg/L	1	1/5/2005 1:56:11 PM
Toluene	11	0.50	µg/L	1	1/5/2005 1:56:11 PM
Ethylbenzene	2.5	0.50	µg/L	1	1/5/2005 1:56:11 PM
Xylenes, Total	13	0.50	μg/L	1	1/5/2005 1:56:11 PM
Surr: 4-Bromofluorobenzene	103	83.3-121	%REC	1	1/5/2005 1:56:11 PM

CHAIN-OF-CUSTODY RECOR	Ocher.	1	HALL ENVIRONMENTAL ANALYSIS LABORATORY 4901 Hawkins NE, Suite D Albuquerque, New Mexico 87109
Client: BLACE ENERGY BP AMERI	Project Name: TONES A LS	73	Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com
Address: P.O. BOX 87	Project #:		ANALYSIS REQUEST
Address: P.O. BOX 87 BLFD., NM 87413		910-	8
	Project Manager:		BTEX + WIBE + TMB's (80218) BTEX + MTBE + TPH (Gasoline Only) TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 4021) EDC (Method 8021) Anions (F, Cl, NO ₂ , PO ₄ , SO ₄) Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) 8260B (VOA) 8270 (Semi-VOA)
Phone #: 505 - 632 - 1199	Sampler: NJV		100 NO
Fax#: 505 -632 -3903	Sample Temperature: 2		11, NO 3 11, VOA 11, VOA 11, VOA 11, NO 3 11, NO
Date Time Matrix Sample I.D. No.	Number/Volume Preservative HgCl ₂ HNO ₃	HEAL No.	BTEX + MTBE + TMB's (80218) BTEX + MTBE + TPH (Gasoline On TPH Method 8015B (Gas/Diesel) TPH (Method 418.1) EDB (Method 504.1) EDC (Method 8021) B310 (PNA or PAH) RCRA 8 Metals Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄) 8260B (VOA) 8270 (Semi-VOA)
129/04 1055 WATER MW # 2	2-40ml / C	501005-1	
Delinquished Du (Constant)		7/15	
Date:, Time: Relinquished By: (Signature) Oute: Time: Relinquished By: (Signature)	Received By: (Signature) Received By: (Signature)	5105 <u>0950</u>	Remarks:

Date: 06-Jan-05

CLIENT:

Blagg Engineering

Work Order:

0501005

Project:

Jones A LS #3

QC SUMMARY REPORT

Method Blank

Sample ID Reagent Blank 5m	Batch ID: R14206	Test Code:	SW8021	Units: µg/L		Analysis	Date 1/4/2	2005 8:43:42 AM	Prep Da	ate	
Client ID:		Run ID:	PIDFID_0501	04A		SeqNo:	3304	70			
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	19.97	0	20	0	99.9	83.3	121	0			
Sample ID Reagent Blank 5m	Batch ID: R14214	Test Code:	SW8021	Units: µg/L		Analysis	Date 1/5/2	2005 8:53:08 AM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0501	05A		SeqNo:	33076	65			
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									
	NB	0.5									
Ethylbenzene	ND	0.5									
Ethylbenzene Xylenes, Total	ND ND	0.5									

CLIENT:

Blagg Engineering

Work Order:

0501005

Project:

Jones A LS #3

Date: 06-Jan-05

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID BTEX std 100ng	Batch ID: R14206	Test Code:	SW8021	Units: µg/L		Analysis	Date 1/4/2	2005 7:42:37 PM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0501	104A		SeqNo:	3305	11			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qua
Benzene	20.16	0.5	20	0	101	88.7	114	0			
Toluene	19.44	0.5	20	0	97.2	89.3	112	0			
Ethylbenzene	20.19	0.5	20	0	101	88.6	113	0			
Xylenes, Total	59.17	0.5	60	0	98.6	89.4	112	0			
Sample ID BTEX std 75ng	Batch ID: R14214	Test Code:	SW8021	Units: µg/L		Analysis	Date 1/5/2	2005 9:52:33 AM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0501	05A		SeqNo:	3307	74			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	15.03	0.5	15	0	100	88.7	114	0			
Toluene	14.57	0.5	15	0	97.2	89.3	112	0			
Ethylbenzene	14.78	0.5	15	0	98.5	88.6	113	0			

Sample Receipt Checklist

lient Name BLAGG					
	Received by	AT			
	. / 3	105			
Date					
me <u>Greyhound</u>					
Yes 🗹	No 🗆	Not Present [
Yes 🗌	No 🗆	Not Present	✓ Not Shipped □		
Yes 🗌	No 🗹	N/A			
Yes 🔽	No 🗆				
Yes 🗹	No 🗆				
Yes 🗹	No 🗆				
Yes 🗹	No 🗆				
Yes 🗹	No 🗆				
Yes 🗹	No 🗆				
Yes 🗹	No 🗆				
submitted	Yes 🗹	No 🗌			
Yes 🗌	No 🗆	N/A 🗹			
2°					
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	Por	con contacted			
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	Yes V		Date Date Date Date		

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT:	BP AME	RICA_P	CUSTODY # :	N/A					
JONES A	LS #3 - D	EHY. PIT			LA	(S) USED :	HALL ENVIRONMENTAL		
UNIT G, S	SEC. 15, T2	8N, R8W							
Date .	March 28	, 2005					SAMPLER:	N	J V
Filename .	03-28-05.W	IK4			!	PROJECT	MANAGER:	N	JV
WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	рН	CONDUCT (umhos)	TEMP. (celcius)	VOLUME PURGED (gal.)
MW - 2	-	_	9.97	20.00	1300	7.02	2,100	15.6	5.00
			INSTRUM	ENT CALIB	rations =	7.00	2,800		
				DATE	E & TIME =	03/28/05	1245		
NOTES:	(i.e. 2" MW Ideally a mi	r = (1/12) ft inimum of t	d from well he h	(i.e. 4" MW bore volum	r = (2/12) ft. es:	h = 1 ft.)	X 7.48 gal./ft3) X 3 (wellbo	res).
	Comments	or note wel	diameter if	not standa	<u>rd 2 ".</u>				
	Excellent re	ecovery. Co	ollected sam	ple for BTE	X analysis	only.			
	Top of cas	ing MW #2	~ 1.30 ft. a	bove grade					

Date: 01-Apr-05

CLIENT: Lab Order: Blagg Engineering

0503263

Project:

Jones A LS #3

Lab ID:

0503263-01

Client Sample ID: MW #2

Collection Date: 3/28/2005 1:00:00 PM

Matrix: AQUEOUS

Analyses	Result	PQL Qual	Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES				-	Analyst: NSB
Benzene	720	50	µg/L	100	3/31/2005 11:27:23 PM
Toluene	4800	50	μg/L	100	3/31/2005 11:27:23 PM
Ethylbenzene	640	50	µg/L	100	3/31/2005 11:27:23 PM
Xylenes, Total	6800	50	μg/L	100	3/31/2005 11:27:23 PM
Surr: 4-Bromofluorobenzene	106	83.3-121	%REC	100	3/31/2005 11:27:23 PM

* - Value exceeds Maximum Contaminant Level

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

CHAI	CHAIN-OF-CUSTODY RECORD			NELAC USACE O Other: Project Name:						-				4	NA 901	LY:	SIS kins	NE,	BC Suit		TO	RY			
Client:	ALC:	EXR.	BP AMERICA	Project Name:	^									Te	1. 50	15.34	45.3 viro	975	Fa		5.34	, 15.41	107		
Address:	P.O.	BOX	87	Towes Project #:	+1	<u></u>	<u> </u>	# 3						Al	IAL	YS	5 F	1=0	UE	ST					
	BIFL	Non	87 87413	Project Manager			<u></u>	<i>9</i> 15	8	Only3	_														_
				Fi oject ividilagei	M	V			(TEX) - MTBE + TMB'S (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B (Gas/Diesel)			i			Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)							Air Bubbles or Headspace (Y or N)
Phone #:	505	- 632	- 1199 3903	Sampler:	NJ	V				+ TPH (()15B (G	18.1)	04.13	(120)	λΗ)		D3, ND2,	s/PCB'		S.					leadspac
Fax #:	505-	632-	3903	Sample Temperat	T	eservat		T	事	- MTBE	ethod 80	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	(F, CI, N(Pesticide	8260B (VOA)	8270 (Semi-VOA)					bles or F
Date	Time	Matrix	Sample I.D. No.	Number/Volume	 	HNO ₃		HEAL No.		BTEX +	TPH M	TPH (N	EDB (N	EDC (N	8310 (RCRA 8	Anions	8081	8260B	8270 (Air Bub
3/28/03	1300	WATER	mw # 2	2-40ml	1			1503263-1	V														\dashv	$\overline{\perp}$	
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Date: 3/29/05	Time: 0915	Relinguished	By: (Signature)	Received	By (Si	gnatur	3	129/05	Rem	arks:															
Date:	Time:		By: (Signature)	Received	By: (Si	gnatur																			

Date: 01-Apr-05

CLIENT:

Blagg Engineering

Work Order:

0503263

Project:

Jones A LS #3

QC SUMMARY REPORT

Method Blank

Sample ID Reagent Blank 5m	Batch ID: R14975	Test Code	SW8021	Units: µg/L		Analysis	S Date 3/31	/2005 8:26:57 AM	Prep Da	ate	
Client ID:		Run ID:	PIDFID_0503	31A		SeqNo:	3483	20			
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	20.23	0	20	0	101	83.3	121	0			

CLIENT:

Blagg Engineering

Work Order:

0503263

Project:

Jones A LS #3

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID BTEX Ics 100ng	Batch ID: R14975	Test Code	: SW8021	Units: µg/L		Analysis	s Date 4/1/2	2005 12:26:55 AM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0503	331A		SeqNo:	3484	06			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.15	0.5	20	0	101	88.7	114	0			
Toluene	20.5	0.5	20	0	102	89.3	112	0			
Ethylbenzene	21.27	0.5	20	0	106	88.6	113	0			
Xylenes, Total	59.94	0.5	60	0	99.9	89.4	112	0			

Qualifiers:

Client Name BLAGG			Date and Time	e Received:	3/29/2005
Work Order Number 0503263			Received by	AT	
Checklist completed by Signature	This	Date	3129	105	
Matrix	Carrier name	Greyhound			
Shipping container/cooler in good condition?		Yes 🗹	No 🗌	Not Present	
Custody seals intact on shipping container/coole	r?	Yes 🗌	No 🗀	Not Present	Not Shipped
Custody seals intact on sample bottles?		Yes 🗌	No 🗹	N/A	
Chain of custody present?		Yes 🗹	No 🗆		
C nain 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 🗆		
Al. samples received within holding time?		Yes 🗹	No 🗌		
Water - VOA vials have zero headspace?	No VOA vials subr	nitted 🗌	Yes 🗹	No 🗆	
Water - pH acceptable upon receipt?		Yes 🗌	No 🗆	N/A	
Ccntainer/Temp Blank temperature?		5°	4° C ± 2 Accept		
CCIMMENTS:					
•					
Client contacted	Date contacted:		Per	son contacted	
Contacted by:	Regarding				
Cornments:					
		-			
		-			
Corrective Action					

Sample Receipt Checklist

BLAGG ENGINEERING, INC.

MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

CLIENT: BP AMERICA PROD. CO. CHAIN-OF-CUSTODY #: N/A												
JONES A LS #3 - DEHY. PIT UNIT G, SEC. 15, T28N, R8W LABORATORY (S) USED: HALL ENVIRONMENTAL												
Date :	June 23,	2005					SAMPLER:	N	J V			
Filename :	06-23-05.W	K4			1	PROJECT	MANAGER :	N	J V			
WELL WATER DEPTH TO TOTAL SAMPLING PH CONDUCT TEMP. VOLUME # ELEV. ELEV. WATER DEPTH TIME (umhos) (celcius) PURGEL (ft) (ft) (ft) (ft) (gal.)												
MW - 2	-		10.85	20.00	0640	6.93	2,100	15.8	4.50			
			INSTRUM	ENT CALIB	RATIONS =	7.00	2,800					
				DATE	& TIME =	06/23/05	0630					
NOTES:	(i.e. 2" MW Ideally a mi	r = (1/12) ft nimum of t	d from well . h = 1 ft.) hree (3) well diameter =	(i.e. 4" MW bore volum	r = (2/12) ft. es:	h = 1 ft.)	<u>K 7.48 gal./ft3</u>	X 3 (wellbo	res).			
	Comments	or note wel	diameter if	not standa	rd 2 ".				•			
	Excellent re	covery. Co	ollected sam	ple for BTE	EX analysis o	only .						
	Top of casi	ing MW #2	~ 1.30 ft. al	bove grade	•							

Date: 29-Jun-05

CLIENT:

Blagg Engineering

Lab Order:

0506238

Project:

Jones A LS #3

Lab ID:

0506238-01

Client Sample ID: MW #2

Collection Date: 6/23/2005 6:40:00 AM

Matrix: AQUEOUS

Analyses	Result	PQL Qı	ıal Units	DF	Date Analyzed
EPA METHOD 8021B: VOLATILES					Analyst: KTM
Benzene	140	10	μg/L	20	6/29/2005 3:29:17 AM
Toluene	220	10	μg/L	20	6/29/2005 3:29:17 AM
Ethylbenzene	30	10	μg/L	20	6/29/2005 3:29:17 AM
Xylenes, Total	570	10	μg/L	20	6/29/2005 3:29:17 AM
Surr: 4-Bromofluorobenzene	99.8	83.3-121	%REC	20	6/29/2005 3:29:17 AM

- * 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			Other:											49	NA 901	LY Haw	SIS kins	LA NE,	BC Suite	PA e D	TOF				
Client: 8	'LASG	EVER.	BP AMERICA	Project Name:	A	ري	F 6	ŧ 3							Te	I. 50)5.3 ₍	45.3	975	Fa	co 87 ex 50 com	109 5.34	5.410	07	
Address:	P.O. K	80× 8	7	Project #:							Ţ	ü		,	AN	IAL	YS	S	1=0	UE	ST			- [
	BIFD,	, NM	87413	Project Manager		√ √	·	⁷	av	TIMB's (80218)	BTEX + MTBE + TPH (Gasoline Only)	as/Diesel)						PO ₄ , SO ₄)	s (8082)						Air Bubbles or Headspace (Y or N)
Phone #	•	632-	1199	Sampler:	٨	IV				1	표	5B (G	8.1)	1.1	23	Œ		, NO ₂ ,	/ PCB						edspe
Fax #:		632-3	3 <i>90</i> 3	Sample Temperat	ure:		<	2.0		量	TRE +	od 801	10d 41	od 50	08 B0	A or P/	etals	J, NO	icides	(A)	ni-V0∆				or He
Date	Time	Matrix	Sample I.D. No.	Number/Volume	}	reservat		HE.	AL No.	BTEX + MTBE	BTEX + M	TPH Method 8015B (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Anions (F, Cl, NO ₃ , NO ₂ , PO ₄ , SO ₄)	8081 Pesticides / PCB's (8082)	8260B (VOA)	8270 (Semi-VOA)				Air Bubbles
6/23/05	0640	WATER	mw #2	2-40m1	V				-1	\ <u></u>															
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Date: Stations: Date:	71111e: 0935 Time:		d By: (Signature) d By: (Signature)	Received	30 OC	Ma	1/2	-6/- 10	2405	Hem	narks:														

CLIENT:

Blagg Engineering

Work Order: 0:

0506238

Project:

Jones A LS #3

QC SUMMARY REPORT

Method Blank

Sample ID Reagent Blank 5m	Batch ID: R15814	Test Code:	SW8021	Units: µg/L		Analysis	s Date 6/27	/2005 10:15:08 AM	Prep D	ate	
Client ID:		Run ID:	PIDFID_0506	527A		SeqNo:	3747	60			
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 D	ate	
Sample ID Reagent Blank 5m Client ID:	Batch ID: R15826	Test Code: Run ID:	SW8021 PIDFID_0506	-		Analysis SeqNo:			Prep D	ate	
. •	Batch ID: R15826		PIDFID_0506	-	%REC	-	3751		Prep D	ate RPDLimit	Qual
Client ID:		Run ID:	PIDFID_0506	28A	%REC	SeqNo:	3751	19	·		Qual
Client ID: Analyte	Result	Run ID: PQL	PIDFID_0506	28A	%REC	SeqNo:	3751	19	·		Qual
Client ID: Analyte Benzene	Result ND	Run ID: PQL 0.5	PIDFID_0506	28A	%REC	SeqNo:	3751	19	·		Qual
Client ID: Analyte Benzene Toluene	Result ND ND	Run ID: PQL 0.5 0.5	PIDFID_0506	28A	%REC	SeqNo:	3751	19	·		Qual

CLIENT:

Blagg Engineering

Work Order:

0506238

Project:

Jones A LS #3

Date: 29-Jun-05

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 Da	ate	
Client ID:		Run ID:	PIDFID_0506	27A		SeqNo:	3747	88			
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 D	ate	
Client ID:		Run ID:	PIDFID_0506	28A		SeqNo:	3753				
Client ID: Analyte	Result	Run ID: PQL	_	28A SPK Ref Val	%REC	•	3753		%RPD	RPDLimit	Qual
	Result		_		%REC 96.9	SeqNo:	3753	62	·	RPDLimit	Qual
Analyte		PQL	SPK value	SPK Ref Val		SeqNo:	3753	62 RPD Ref Val	·	RPDLimit	Qual
Analyte	19.38	PQL 0.5	SPK value	SPK Ref Val	96.9	SeqNo: LowLimit 88.7	37530 HighLimit	RPD Ref Val	·	RPDLimit	Qual

Sample Receipt Checklist

Client Name BLAGG		Date and Time	Received:		
Work Order Number 0506238	,	Received by	AMG		
Checklist completed by Signature	$2 \left(\sqrt{34} \right)$	105			
M atrix: Carrie	er name: <u>Greyhound</u>				
Shipping container/cooler in good condition?	Yes 🗹	No 🗆	Not Present		
Custody seals intact on shipping container/cooler?	Yes 🗌	No 🗆	Not Present	✓ Not Shipped	
Custody seals intact on sample bottles?	Yes 🗌	No 🗌	N/A	✓	
Chain of custody present?	Yes 🗹	No 🗆			
Chain of custody signed when relinquished and received?	Yes 🗹	No 🗌			
Chain of custody agrees with sample labels?	Yes 🗹	No 🗌			
Samples in proper container/bottle?	Yes 🗹	No 🗌			
Sample containers intact?	Yes 🗹	No 🗆			
Sufficient sample volume for indicated test?	Yes 🗹	No 🗆			
Al 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° C ± 2 Accepta			
COMMENTS:					
			====		
Client contacted Date conta	cted:	Pers	on contacted		
Cc ntacted by: Regarding:				······································	
Cc mments:					
					
Corrective Action					