3R-177

GW Remediation Report

DATE: Feb. 2008

3R 177

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

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March 17, 2008

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

RE: REQUEST FOR PERMANENT CLOSURE BP America Production Company (formerly Amoco Production Co.) Groundwater Monitoring Report Gallegos Canyon Unit (GCU) # 145E, Unit D, Sec. 26, T29N, R12W, NMPM San Juan County, New Mexico

NMOCD Administrative/Environmental Order #: 3RP-177-0

Dear Mr. von Gonten:

BP America Production Company (**BP**) has retained Blagg Engineering, Inc. (**BEI**) to conduct environmental monitoring of groundwater at the GCU # 145E.

BP has followed its NMOCD approved groundwater management plan and is requesting permanent closure for this site.

If you have any questions concerning the enclosed documentation, please contact either myself or Jeffrey C. Blagg at (505) 632-1199. Thank you for your cooperation and assistance.

Respectfully submitted: *Blagg Engineering, Inc.*

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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) BP AMERICA PRODUCTION CO.

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GROUNDWATER REMEDIATION REPORT

GALLEGOS CANYON UNIT (GCU) #145E (D) SECTION 26, T29N, R12W, NMPM SAN JUAN COUNTY, NEW MEXICO

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

FEBRUARY 2008

PREPARED BY: BLAGG ENGINEERING, INC.

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

BP AMERICA PRODUCTION COMPANY Gallegos Canyon Unit (GCU) #145E Nw/4 Nw/4, Sec. 26, T29N, R12W

Historical Information:

Pit Closure Dates: Monitor Well Installation Date: Reclamation Procedures: Monitor Well Sampling Dates: January, 1996 December, 2006 Excavation (Jan., 1996) 12/27/06

Groundwater was encountered at a depth of approximately 7 feet below surface grade during excavation of impacted soils from a blow pit in January, 1996 (documentation attached). The excavation perimeter was measured at approximately 50 X 40 X 7 feet depth. Approximately 300 cubic yards of soils were removed and landfarmed on-site. The groundwater within the excavation perimeter was pumped via water hauling trucks and disposed at an approved facility. Afterwards, the exposed groundwater was sampled and tested for benzene, toluene, ethylbenzene, and total xylenes (**BTEX**) per US EPA method 8020 on January 16, 1996. Upon receipt of the laboratory results, the New Mexico Oil Conservation Division (**NMOCD**) was notified with letter dated March 5, 1996 of the groundwater impact (attached). A subsequent sampling of the groundwater was conducted on January 23, 1996. The BTEX results of the groundwater sampling from the excavation are as follows;

Sample ID	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
Pit Water	01/16/96	162	420	60.9	964
Pit Water	01/23/96	8.90	15.0	1.54	48.84
NMWQCC regulatory standards		10	750	750	620

Note: NMWQCC = New Mexico Water Quality Control Commission, ppb = parts per billion.

Soil Lithology and Groundwater Investigation:

During the pit closure activity, it was noted that the soil removed and excavation sidewalls consisted of a sandy silt and that bedrock was encountered at approximately 7 feet below grade. During the boring advancement in December, 2006, no evidence of either case was observed. Instead, soil lithology at the pit area consists of primarily sand (probably backfill material), non cohesive, and firm. Medium gray discoloration with an apparent hydrocarbon odor was detected/observed physically from the auger cuttings between 8-11 feet below grade.

One (1) groundwater monitor well was installed in December, 2006 to test groundwater quality within the source area (see Figure 1). The boring log of the monitor well along with well completion information is contained within this report. There does not appear to be any known receptors ever impacted by the previous discovery of impacted soil and/or groundwater. In addition, there does not appear to be any physical evidence to indicate that a nearby swamp area immediately down gradient from the excavation has ever been impacted by the past operational use of the pit (see Pit Closure Verification pit perimeter diagram).

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from the site monitor well following US EPA: SW-846 protocol. After well development, samples were collected with new disposable bailers, placed into laboratory supplied containers with appropriate preservative and stored in an ice chest for express delivery to a qualified laboratory for testing. Analytical testing included BTEX by US EPA Method 8021B and general water chemistry.

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

Groundwater Quality & Flow Direction Information:

Groundwater from the site monitor well was sampled and tested in December, 2006. The general water chemistry does not reveal any abnormalities. The testing also indicates all BTEX constituents were at non-detectable or at very low levels, well below New Mexico Water Quality Control Commission (NMWQCC) standards. The following is a summary of laboratory BTEX analytical result;

Sample ID	Date	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Total Xylenes (ppb)
Pit Water	Water 12/27/06 ND		ND	ND	12
NMWQCC regulatory standards		10	750	750	620

Note: NMWQCC = New Mexico Water Quality Control Commission, ppb = parts per billion, ND = Not Detected at Reporting Limit.

Since only one (1) site monitor well was installed, no groundwater contour map of relative water table elevations was obtainable. However, the general groundwater flow direction in all probability is toward the north.

Summary and Recommendations:

Hydrocarbon impacted soil and groundwater at the site has been remediated via excavation of impacted soils. The site monitor well within the source area meets NMWQCC standards for groundwater. Permanent site closure is recommended. Following approval by the NMOCD, the monitor well will be abandoned pursuant to the approved BP Ground Water Management Plan.

	RETHUTS	0 BOS MILOT 1-19-96 + 1	-24-96
	CLIENT: <u>Amoco</u> BLAGG E P.O. BOX 87, E (505	NGINEERING, INC. BLOOMFIELD, NM 87413 5) 632-1199	B C.D.C. ND:
2 2	FIELD REPORT: PIT	CLOSURE VERIFICAT	ION
	LOCATION: <u>G(4 145 E</u> QUAD/UNIT: D SEC: 26 TWP: 29 N RNG: 12 U QTR/FODTAGE: <u>NW/NW</u> C	PIT TYPE: BLOW BM: MM CNTY: SJ ST: MM ONTRACTOR: PAUL	DATE STARTED: 1-16-96 DATE FINISHED: 1-23-96 ENVIRONMENTAL SPECIALIST: <u>£Co-</u>
	EXCAVATION AFPROX. <u>50</u> FT. × <u>40</u> F DISPOSAL FACILITY: <u>ON SITE</u> LAND USE: <u>RESID. / AGRI,</u> LEASE:	T. × <u>3-7</u> FT. DEEP. CUE REMEDIATION METHE FORM	BIC YARDS: <u>300</u> 1D: ισυγγγ Δ <u>μ</u>
	FIELD NOTES & REMARKS: PIT LOCATED AF DEPTH TO GROUNDWATER: 7 NEAREST WATER SOL NMOCD RANKING SCORE: 40 NMOCD TPH CLOSURE	PREXIMATELY <u>150</u> FEET _ IRCE: <u>21000</u> NEAREST SURFA	WEST FROM WELLHEAD. CE WATER: < 10 00 '
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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: Sample ID: Project Loca Laboratory	Amc East ation: GCL Number: TPH	oco t Side @ 5' J 145E I-1653	Project #: Date Analyzed: Date Reported: Sample Matrix:	1-16-96 1-16-96 Soil
Parame	ter	Result, mg/kg	Detec Limit, r	tion mg/kg
Total Recov Petroleum H	verable Hydrocarbons	290		10
ND = Not	Detectable at state	ed detection limits.		
QA/QC:		QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	*Administrative Ac	13,700 cceptance limits set at 30%.	12,100	12
Method:	Modified Meth Recoverable, USEPA Storet	od 418.1, Petroleum Hydrocarl Chemical Analysis of Water an No.4551 1978	bons, Total nd Waste,	
Comments:	Blow Pit - B03	19		

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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:AmocSample ID:East SProject Location:GCULaboratory Number:TPH-*		o Side @ 6' 145E 659	Project #: Date Analyzed: Date Reported: Sample Matrix:	1-18-96 1-18-96 Soil
Paramete	er	Result, mg/kg	Detec g Limit,	ction mg/kg
Total Recove Petroleum Hy	erable ydrocarbons	14		10
ND = Not D	Detectable at stated	detection limits.		
QA/QC:	Q	PA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	*Administrative Acce	13,700 ptance limits set at 30%.	12,100	12
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Comments:	Blow Pit - B0319)		
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Blagg Engineering, Inc.

Project ID: Sample ID: Lab ID: Sample Matrix: Preservative: Condition:

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No.

Amoco/GCU 145E Pit Water at 7' Blow Pit 2423 Water Cool, HgCl₂ Intact

Report Date:	01/22/96
Date Sampled:	01/16/96
Date Received:	01/17/96
Date Analyzed:	01/18/96

Target Analyte	Concentration (ug/L)	Detection Limit. (ug/L)
Benzene	162	10.0
Toluene	420	10.0
Ethylbenzene	60.9	10.0
m,p-Xylenes	797	20.0
o-Xylene	167	10.0

Total BTEX 1,610

ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	<u>Percent Recovery</u>	<u>Acceptance Limits</u>
	Trifluorotoluene	105	88 - 110%
Reference:	Method 602.2, Purgeab Oct. 1984.	le Aromatics; Federal Reg	ister, Vol. 49, No. 209,

Comments:

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Blagg Engineering, Inc.

Amoco/ GCU 145E Project ID: Report Date: 01/24/96 Pit Water Date Sampled: Sample ID: 01/23/96 2496 Lab ID: Date Received: 01/23/96 Sample Matrix: Water Date Analyzed: 01/24/96 Cool, HgCl₂ Preservative: Intact Condition:

Target Analyte	Concentration (ug/L)	Detection Limit. (ug/L)				
Benzene	8.90	0.20				
Toluene	15.0	0.20				
Ethylbenzene	1.54	0.20				
m,p-Xylenes	39.6	0.40				
o-Xylene	9.24	0.20				

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ND - Analyte not detected at the stated detection limit.

Quality Control:	<u>Surrogate</u>	Percent Recovery	Acceptance Limits			
	Trifluorotoluene	107	88 - 110%			
	Bromofluorobenzene	92	86 - 115%			
Reference:	Method 602.2, Purgeab Oct. 1984.	ole Aromatics; Federal Reg	gister, Vol. 49, No. 209,			

Comments:

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

March 5, 1996

Mr. Roger Anderson Chief of Environmental Bureau State of New Mexico Oil Conservation Division 2040 So. Pacheco Santa Fe, New Mexico 87505

RE: Groundwater Impact Amoco Production Company:

GCU 145E Well site Legal Description: Unit D, Sec. 26, T29N, R12W San Juan County, New Mexico

Dear Mr. Anderson:

Initial groundwater sample analytical results at the above referenced well site during pit closure activity indicated contamination to be above the State of New Mexico Water Quality Control Commission's regulatory standards for Benzene and total Xylenes. Sampling on the Blow pit was conducted January 16, 1996. Listed below are summary analytical results for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX):

Parameter	Blow Pit (parts per billion)
Benzene	162
Toluene	420
Ethylbenzene	60.9
Total Xylenes	964

If you have any questions concerning this information, please do not hesitate to contact us at (505) 632-1199. Thank you for your cooperation.

Respectfully submitted, Blagg Engineering, Inc.

elly C. Segg Jeffrey C. Blagg, P.E.

Jeffrey C. Blagg, P.E President

cc:

Denny Foust, Deputy Oil & Gas Inspector; NMOCD, Aztec, NM Buddy Shaw, Environmental Coordinator, Amoco Production Company, Farmington, NM

GCU145E.LTR

NV/nv

CLIENT: <u>BP</u>	BLAGG ENG P.O. BOX 87, BLC (505)	INEERING, INC. OMFIELD, NM 87413 632-1199	LOCATION NO: <u>88319</u> C.O.C. NO: <u>HALL</u>
FIELD REPORT: LA	NDFARM/COMPOST	PILE CLOSURE VER	RIFICATION
LOCATION: <u>NAME:</u> Gこし QUAD/UNIT: D SEC: こと QTR/FOOTAGE:	WELL : 5 TWP: Z9, RNG: 12, F NW 4 NW 4 CONT	# 145E PITS: BLOW MNM CNTY: SJ STN RACTOR: N/A	DATE STARTED: 2(27/08 DATE FINISHED: ENVIRONMENTAL SPECIALIST:
SOIL REMEDIATION: REMEDIATION SYSTE LAND USE:	M: LANDFARM WGE/RESNENTAL	_ APPROX. CUBI _ LIFT DEPTH (ft;	ic yardage: ~ 300): /-1. S
FIELD NOTES & REMAR	KS: DEPTH TO GROUNDWATER:	CORE: 40 NEAREST SUF	RFACE WATER: <u>< 200'</u> TPH CLOSURE STD: <u>/00</u> PPM
SOIL TYPE SAND/ SILTY SAN SOIL COLOR: DK.	D/SILT/SILTYCLAY/CLAY/G	RAVEL / OTHER SOME	GRAVEL/COBBLE MYX
COHESION (ALL OTHERS): AO CONSISTENCY (NON COHESIV PLASTICITY (COHESIVE CLAYS & MOISTURE: DRY / SLIGHTLY M DISCOLORATION/STAINING OF HC ODOR DETECTED: YES (N SAMPLING DEPTHS (LANDFAR SAMPLE TYPE: GRAB / COMP ADDITIONAL COMMENTS:	N COHESIVE SLIGHTLY COHE E SOILS, LOOSE FIRM DENS ASTIC / SLIGHTLY PLASTIC / CO SILTS): SOFT / FIRM / STIFF / V OIST / MOIST / WET / SATURAT SSERVED: YES (NO EXPLANAT SSERVED: YES (NO EXPLANAT SSERVED	SIVE / COHESIVE / HIGHLY C SE / VERY DENSE HESIVE / MEDIUM PLASTIC / ERY STIFF / HARD ED / SUPER SATURATED FION -	CLOSED
SKETCH/SAMPLE I LANDFARM PERIMETER	TB', NIZW FROMWELL HEAD	OVM CALIB. READ. = <u>S</u> OVM CALIB. GAS = <u>/</u> TIME: <u>/:/S</u> am	2.7 ppm 20 ppm RF = 0.52 50 DATE: $2/27/08$
	\uparrow	OVM RESULTS	LAB SAMPLES
10 24' 38' 28' 4 800 800	55'	$\frac{10}{2F-1}$	$\frac{10}{F} - 1 \left(\frac{7724}{80/5B}\right) 1535 \text{ NO}$
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TRAVEL NOTES: CALLOUT:		ONSITE:	bei1006A.skd

Lab Order: 0802340 Collection Date: 2/27/2008 3:35:0 Project: GCU #145E - Landfarm Date Received: 2/29/2008 Lab ID: 0802340-01 Matrix: SOIL Analyses Result PQL Qual Units DF Date EPA METHOD 8015B: DIESEL RANGE ORGANICS Diesel Range Organics (DRO) ND 10 mg/Kg 1 3/4/2 EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2 EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2	posite
Project:GCU #145E - LandfarmDate Received:2/29/2008Lab ID:0802340-01Matrix:SOILAnalysesResultPQLQualUnitsDFDiesel Range Organics (DRO)ND10mg/Kg13/4/2Surr: DNOP99.061.7-135%REC13/4/2EPA METHOD 8015B: GASOLINE RANGEGasoline Range Organics (GRO)ND5.0mg/Kg13/4/2Surr: BFB11384-138%REC13/4/2	:00 PM
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Surr: DNOP 99.0 61.7-135 %REC 1 3/4/2 EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2 Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2 Surr: BFB 113 84-138 %REC 1 3/4/2	/2008 7:52:26 PM
EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2 Surr: BFB 113 84-138 %REC 1 3/4/2	/2008 7:52:26 PM
Gasoline Range Organics (GRO) ND 5.0 mg/Kg 1 3/4/2 Surr: BFB 113 84-138 %REC 1 3/4/2	Analyst: NSB
Surr: BFB 113 84-138 %REC 1 3/4/2	/2008 8:22:00 PM
	/2008 8:22:00 PM
EPA METHOD 9056A: ANIONS	Analyst: SLB
Chloride 17 1.5 mg/Kg 5 3/4/2	/2008 12:13:11 AM

Hall Environmental Analysis Laboratory, Inc.

Date: 07-Mar-08

Qualifiers:

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* 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

Page 1 of 1

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QA/QC SUMMARY REPORT

Client: Blagg Engli	heering							
Project: GCU #1451	E - Landfarm	1					Work	Order: 0802340
Analyte	Result	Units	PQL	%Rec	LowLimit H	lighLimit	%RPD RPD	Limit Qual
Method: EPA Method 9056A:	Anions							
Sample ID: MB-15268		MBLK			Batch ID:	15268	Analysis Date:	3/3/2008 5:50:12 PM
Chloride	ND	mg/Kg	0.30					
Sample ID: LCS-15268		LCS			Batch ID:	15268	Analysis Date:	3/3/2008 6:07:37 PM
Chloride	14.96	mg/Kg	0.30	99.7	90	110		
Method: EPA Method 8015B: Sample ID: MB-15274	Diesel Range	Organics MBLK			Batch ID:	15274	Analysis Date:	3/4/2008 8:16:23 AM
Diesel Range Organics (DRO)	ND	mg/Kg LCS	10		Batch ID [.]	15274	Analysis Date	3/4/2008 8:51:23 AM
Diesel Range Organics (DRO)	43.20	mg/Kg	10	86.4	64.6	116		
Sample ID: LCSD-15274		LCSD			Batch ID:	15274	Analysis Date:	3/4/2008 9:26:22 AM
Diesel Range Organics (DRO)	43.24	mg/Kg	10	86.5	64.6	116	0.102 17.	4
Method: EPA Method 8015B:	Gasoline Rai	nae						
Sample ID: MB-15269	•	MBLK			Batch ID:	15269	Analysis Date:	3/4/2008 10:52:49 PM
Gasoline Range Organics (GRO) Sample ID: LCS-15269	ND	mg/Kg LCS	5.0		Batch ID:	15269	Analysis Date:	3/4/2008 9:52:20 PM
Gasoline Range Organics (GRO)	25.89	mg/Kg	5.0	104	69.5	120		

Qualifiers:

E Value above quantitation range

J Analyte detected below quantitation limits

R RPD outside accepted recovery limits

- - ND Not Detected at the Reporting Limit

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S Spike recovery outside accepted recovery limits

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Holding times for preparation or analysis exceeded

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	Sample Re	ecei	ipt Cheo	JKIISL				
Client Name BLAGG				Date Received	:		2/29/2008	
Work Order Number 0802340				Received by:	TLS			
	nin	ð) ag Date	Sample ID la	bels checked	by	Initials	
Matrix	Carrier name <u>U</u>	<u>JPS</u>						
Shipping container/cooler in good condition?	Y	es (No 🗌	Not Present			
Custody seals intact on shipping container/cooler?	Y	es l		No 🗌	Not Present		Not Shipped	
Custody seals intact on sample bottles?	Y	es	\checkmark	No 🗌	N/A			
Chain of custody present?	Y	res		No 🗔				
Chain of custody signed when relinquished and rece	eived? Y	/es		No 🗌				
Chain of custody agrees with sample labels?	· Y	(es	\checkmark	No 🗌				
Samples in proper container/bottle?	Y	/es		No 🗌				
Sample containers intact?	Y	/es		No 🗔				
Sufficient sample volume for indicated test?	Y	í es		No 🗌				
All samples received within holding time?	, Y	res		Νο				
Water - VOA vials have zero headspace? N	lo VOA vials submit	ted		Yes 🗋	No 🗌]		
Water - Preservation labels on bottle and cap match	h? ຼ ነ	Yes		No 🗌	N/A 🗹]		
Water - pH acceptable upon receipt?	٢	Yes		No 🗀	N/A 🗹]		
Container/Temp Blank temperature?		4	1 °	<6° C Acceptab	le time to cool			
Container/Temp Blank temperature? COMMENTS:		4	1 °	<6° C Acceptab	le time to cool.			
Container/Temp Blank temperature?	=		1 °	<6° C Acceptab. If given sufficient	le time to cool.			
Container/Temp Blank temperature? COMMENTS: Client contacted Da	=		1 °	<6° C Acceptab. If given sufficient	le time to cool.			
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Container/Temp Blank temperature? COMMENTS: Client contacted Da Contacted by: Re Comments: Corrective Action	te contacted:	د	1 °	<6° C Acceptab. If given sufficient Pers	le time to cool.			

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MONITOR WELL DEVELOPMENT & / OR SAMPLING DATA

UNIT D,	5E - BLOW SEC. 26, T2	/ PIT 29N, R12W			LAB	BORATORY	' (S) USED :	HALL ENVI	RONMENTAL
Date	: December	27, 200	6				SAMPLER :	N	JV
Filename	: 12-27-06.V	VK4			F	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	-	-	11.16	15.00	1040	7.08	1,100	8.6	2.00
			INSTRUM	ENT CALIE	RATIONS =	7.00	2,800		
				DATI	E & TIME =	12/27/06	0900		
NOTES :	<u>Volume_of</u> (i.e. 2" MW Ideally a m	<u>water_purge</u> r = (1/12) f inimum_of 2.00 "_well	ed from well ft. h = 1 ft.) (three (3) we diameter = (<u>prior to s</u> (i.e. 4" MW Ilbore volu 0.49 gallor	ampling; V = / r = (2/12) ft mes: ns per foot c	<u>pi X r2 X h</u> . h = 1 ft.) of water.	<u>X 7.48 gal./</u>	<u>ft3) X 3 (wel</u>	l <u>bores).</u>
	Comments	or note we	ll_diameter_if	not stan	<u>dard_2 ".</u>				
	<u>Comments</u> Excellent / g	<u>or note we</u> jood recove	ll diameter if ry. Murky b	f not stand rown in aj	dard_2 <u>".</u> ppearance wi	th no appa	rent hydroca	rbon odor (detected

Top of casing MW #2 ~ 2.50 ft. above grade.

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CLIENT:	Blagg Engineering			Client Sample ID:	MW	#2
Lab Order:	0612286			Collection Date:	12/27	/2006 10:40:00 AM
Project:	GCU #145E			Date Received:	12/28	/2006
Lab ID:	0612286-01			Matrix:	AQU	EOUS
Analyses		Result	PQL Qu	al Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES					Analyst: LMM
Benzene		ND	1.0	µg/L	1	12/28/2006 5:24:49 PM
Toluene		ND	1.0	µg/L	1	12/28/2006 5:24:49 PM
Ethylbenzene		ND	1.0	µg/L	1	12/28/2006 5:24:49 PM
Xylenes, Total		12	3.0	μg/L	1	12/28/2006 5:24:49 PM
Surr: 4-Brom	nofluorobenzene	82.5	70.2-105	%REC	1	12/28/2006 5:24:49 PM

Date: 02-Jan-07

* Value exceeds Maximum Contaminant Level Qualifiers: В Analyte detected in the associated Method Blank Е Value above quantitation range Н Holding times for preparation or analysis exceeded Analyte detected below quantitation limits Maximum Contaminant Level J MCL Not Detected at the Reporting Limit ND RL Reporting Limit Spike recovery outside accepted recovery limits S 1/3

Page 1 of 1

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CATION / ANION ANALYSIS

Client:	Blagg / BP	Project #:	94034-010
Sample ID:	MW #2	Date Reported:	12-29-06
Laboratory Number:	39600	Date Sampled:	12-27-06
Chain of Custody:	14686	Date Received:	12-27-06
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	12-28-06
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		
рН	7.48	s.u.		
Conductivity @ 25° C	1,000	umhos/cm		
Total Dissolved Solids @ 180C	696	mg/L		
Total Dissolved Solids (Calc)	679	mg/L		
SAR	0.6	ratio		
Total Alkalinity as CaCO3	30 9	mg/L		
Total Hardness as CaCO3	496	mg/L		
Bicarbonate as HCO3	309	mg/L	5.06	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	<0.1	mg/L	0.00	meq/L
Nitrite Nitrogen	0.002	mg/L	0.00	meq/L
Chloride	26.8	mg/L	0.76	meq/L
Fluoride	1.08	mg/L	0.06	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	256	mg/L	5.33	meq/L
Iron	0.009	mg/L	0.00	meq/L
Calcium	144	mg/L	7.19	meq/L
Magnesium	33.2	mg/L	2.73	meq/L
Potassium	1.05	mg/L	0.03	meq/L
Sodium	29.0	mg/L	1.26	meq/L
Cations			11.21	mea/L
Anions			11.20	meq/L
Cation/Anion Difference			0.02%	

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: GCU #145E Grab Sample

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HALL ENVIRONMENTAL ANALYSIS LABORATORY	ABUT Hawkins NE, Suite U Albuquerque, New Mexico 87109 Tel. 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com	ANALYSIS REQUEST		0 anilose3 (leseid) as/Diesel) (see (3082) (see (3082)) (see (3082) (see (3082)) (see (3082)) (see (30	edspe ()))))))))))))	+ 381 108 bo 108 bo 100	BTEX + M BTEX + M TPH Methor FDB (Meth B310 (PW B310 (PW B310 (PW B310 (PW B3310 (PW B						marks: .
	Olient: Super ENER, BP Ancar con Project Name: GCU #145E	Address: $l. O. SOX 87$. Project #:	RED. NM 87413	Project Manager:	Phone #: $63 a - 1/99$ Sampler: NV	Fax #: Sample Temperature: 20	Date Time Matrix Sample I.D. No. Number/Volume Preservative HEAL No. Matrix Sample I.D. No. Number/Volume HgCl2 HNO3 Ob 17.23 U	12/12/08/1040 Martic Min # 3 3-404/ 1 1					Date: Time: Relinquished By: (Signature) Received By: (Signature) (2-28-00.3 Re Received By: (Signature) (2-28-00.3 Re Date: Time: Relinquished By: (Signature) (2-28-00.3 Re

ORD 14686	ANALYSIS / PARAMETERS	Remarks	GRAB SAMPLE				Date Time			Sample Receipt	X NIA	Received Intact	Cool - Ice/Blue Ice
JF CUSTODY REC	145€	. of radors	Sample Zon Antion S Matrix Con Control S	WRTER 1 1			ate Time Received by: (Signature)	Received by: (Signature)	Received by: (Signature)	DVIROTECH INC		5796 U.S. Highway 64 Farmington, New Mexico 87401	(505) 632-0615
CHAIN C	Project Location どこれ #	Client No. 7403 4-010	Lab Number	39600						Ē	j -	L	-
Ū			le Sample Time	0401 %		 							
	18P		Sampl Date	2/22/21		 	igpature)	lignature)	lignature)				
	Client / Project Nam	Sampler:	Sample No./ Identification	NH MN			Relinquished-by: KS	Relinquished by: (S	Relinquished by: (S				

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0612286

12/28/2006 9:42:29 AM

12/28/2006 3:51:55 PM

Work Order:

RPDLimit Qual

Analysis Date: 12/28/2006 11:30:42 AM

27

19

10

13

%RPD

Analysis Date:

Analysis Date:

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4.28

5.02

QA/QC SUMMARY REPORT

Client: Project:	Blagg Engineerin GCU #145E	g					
Analyte	Re	sult	Units	PQL	%Rec	LowLimit	HighLimit
Method: SW8	021						
Sample ID: 5MI	RB		MBLK			Batch	ID: R21975
Benzene	NE)	µg/L	1.0			
Toluene	NE)	µg/L	1.0			
Ethylbenzene	NE)	µg/L	1.0			
Xylenes, Total	NE)	µg/L	3.0			
Sample ID: 100	NG BTEX LCS		LCS			Batch	ID: R21975
Benzene	18	.08	µg/L	1.0	90.4	85.9	113
Toluene	18	.48	µg/L	1.0	92.4	86.4	113
Ethylbenzene	18	.09	µg/L	1.0	90.4	83.5	118

µg/L

µg/L

µg/L

µg/L

µg/L

LCSD

3.0

1.0

1.0

1.0

3.0

91.8

88.8

87.9

86.7

87.3

83.4

85.9

86.4

83.5

83.4

Batch ID:

122

113

113

118

122

R21975

Qualifiers:

Xylenes, Total

Ethylbenzene

Xylenes, Total

Benzene

Toluene

Sample ID: 100NG BTEX LCSD

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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 Snike recovery outside accepted recovery limits 2/3

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Start Bar

	Sample Receipt	Checklist		
Client Name BLAGG		Date and Time	Received:	12/28/2006
Vork Order Number 0612286		Received by	GLS	
Checklist completed by <u>Signature</u>	12	-28-00		
Matrix Carri	er name <u>Greyhour</u>	<u>d</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 🗔		
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 Accepta	ble	
		If given sufficient	time to cool.	
COMMENTS:				
			· ·	
Client contacted Date conta	cted:	Pers	on contacted	·
Contacted by: Regarding				
Comments:				
		· · ·		
Corrective Action				

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