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

45-26454

April 23, 2001

<u>``</u>

Mr. James Miles Bureau of Indian Affairs 1400 La Plata Highway Farmington, New Mexico 87401

Re: Request for Closure of Earthen Pit
 Dugan Production Corporation - Lucky Billy Charlie No.
 (M) Sec. 22 - T27N - R13W
 San Juan County, New Mexico



Dear Mr. Miles:

On behalf of Dugan Production Corporation, Blagg Engineering, Inc. (BEI) is requesting closure of an earthen pit at the Lucky Billy Charlie No. 2, (M) Sec. 22 - T23N - R13W, San Juan County, New Mexico. The earthen pit was used as a separator pit for water disposal at this location. The well was recently plugged and abandon and remediation of the earthen pit was conducted as part of the site closure operations.

A total of approximately 48 cubic yards of soil was excavated from the pit on February 28, 2001 and placed into an onsite landfarm for remediation. The landfarm soils contained mostly volatile organics and were mixed with clean soils during the excavation process. The landfarm was sampled for closure on April 17, 2001. Documentation supporting closure of the pit and landfarm, including laboratory reports, is included with the attached BLM sundry notice.

Questions or comments concerning this request for closure may be directed to Jeff Blagg at (505)632-1199.

Respectfully submitted: *Blagg Engineering, Inc.* 

TC. Stegg

Jeffrey C. Blagg, P.E. President

cc: Mr. Denny Foust - NMOCD Aztec
 Mr. William Olson - NMOCD Santa Fe
 Mr. Bill Liess - BLM Farmington (2)
 Mr. Tom Blair - Dugan Production Corp.

Attachements: BLM Sundry, Field Closure Reports, Laboratory Test Reports

## CROSS TIMBERS GROUNDWATER MONITOR WELL LABORATORY RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

#### 45-23550

## STATE GC BS #1 - SEPARATOR PIT UNIT K, SEC. 23, T29N, R11W

REVISED DATE: AUGUST 28, 2000 FILENAME: (ST-2Q-00.WK4) NJV

								BTEX EF	PA METHOI	D 8020 or 8	021 (PPB)
SAMPLE	MONITOR	D.T.W.	T.D.	TDS	COND.	pH	PRODUCT			Ethyl	Total
DATE	WELL No:	(ft)	(ft)	mg/L	umhos		(in)	Benzene	Toluene	Benzene	Xylene
									·		
05-Jun-96	MW #1	5.60	8.43	4660	3200	6.8		ND	ND	ND	ND
13-May-99		5.77		4275	8550	7.5				-	
29-Jun-00		7.11			NA	NA			-	-	
05-Jun-96	MW #2	5.57	8.43	5120	4400	6.7		57.2	ND	277	2804
11-Sep-96		6.36			3800	7.4		17.3	19.7	177	197.23
23-Jun-97		5.82	8.42		4000	7.6		8.6	3.6	4.8	26.5
22-Sep-97		5.50			2900	7.4_		0.4	4.4	ND	14.8
18-Dec-97		5.29			3300	6.9		ND	0.7	2.7	11.2
30-May-98		5.27			3200	7.2		1.2	1.9	2.7	5.5
13-May-99		6.15		4860	9740	7.6		-	-		-
05-Jun-96	MW #3	5.75	8.62	13000	6500	7.0		ND	ND	ND	ND
13-May-99		6.40		8050	16200	7.5		-	-	-	-
29-Jun-00		7.67			4300	7.3		ND	ND	ND	ND
23-Jun-97	MW #4	6.74	8.95	4119	3800	7.2		26.4	86.5	186	1062
26-Jun-98	MW #4R	5.56	10.00		2600	7.7		17.1	10.2	8.7	47.0
13-May-99		4.87		4700	9450	7.3		3.9	4.5	2.9	8.3
25-Aug-99		3.35			3200	7.0		8.6	2.0	0.5	2.6
30-Nov-99		4.22			3300	7.1		10.5	0.8	7.5	8.2
29-Jun-00		6.13			3400	7.1		ND	ND	ND	ND
18-Dec-97	MW #5	6.45	9.00	1870	3200	6.9		ND	0.4	ND	0.6
13-May-99	MW #5R	7.65	10.00	4790	9600	7.3			-	-	-
29-Jun-00		8.90			3400	7.1		ND	ND	ND	ND
25-Aug-00	MW #6	5.30	10.00	8070	4000	7.1		-	-	-	-

## GENERAL WATER QUALITY CROSS TIMBERS OIL COMPANY

## STATE GC BS #1

## SAMPLE DATE : May 13, 1999

PARAMETERS	MW # 1	MW # 2	MW # 3	MW # 4R	MW # 5R	Units
LAB pH	7.46	7.58	7.50	7.32	7.31	s. u.
LAB CONDUCTIVITY @ 25 C	8,550	9,740	16,200	9,450	9,600	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	4,275	4,860	8,050	4,700	4,790	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	4,264	4,841	8,004	4,669	4,755	mg / L
SODIUM ABSORPTION RATIO	8.7	12.2	25.2	11.1	11.7	ratio
TOTAL ALKALINITY AS CaCO3	364	568	876	316	332	mg / L
TOTAL HARDNESS AS CaCO3	1,445	1,325	1,295	1,350	1,320	mg / L
BICARBONATE as HCO3	364	568	876	316	332	mg / L
CARBONATE AS CO3	< 1	< 1	< 1	< 1	< 1	mg / L
HYDROXIDE AS OH	< 1	< 1	< 1	< 1	< 1	mg / L
NITRATE NITROGEN	< 0.1	< 0.1	< 0.1	0.7	3.1	mg / L
NITRITE NITROGEN	0.029	0.015	0.007	0.024	0.094	mg / L
CHLORIDE	15.5	50.0	56.5	17.0	13.5	mg / L
FLUORIDE	1.25	1.52	1.69	1.31	1.26	mg / L
PHOSPHATE	0.3	0.2	0.1	< 0.1	< 0.1	mg / L
SULFATE	2,690	2,910	4,840	2,990	3,040	mg / L
IRON	0.553	0.038	0.029	0.207	0.001	mg / L
CALCIUM	504	446	428	494	480	mg / L
MAGNESIUM	45.2	51.3	55.0	. 28.1	29.3	mg / L
POTASSIUM	26.5	17.5	11.0	6.0	6.0	mg / L
SODIUM	760	1020	2,080	940	980	mg / L
CATION / ANION DIFFERENCE	0.20	0.14	0.14	0.02	0.13	%

NOTE: Chloride & TDS samples collected on June 29, 2000; TDS sample collected from newly installed MW #6 on August 25, 2000; results are as follows:

	TDS	CHLORIDE	]
MW #3	5,180	23.0	mg / L
MW #4R	-	11.0	mg / L
MW #5R	-	12.9	mg / L
MW #6	8,070		mg / L





#### STATE OF NEW MEXICO



ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 S. PACHECO SANTA FE, NEW MEXICO 87505 (505) 827-7131

April 21, 1999

#### CERTIFIED MAIL RETURN RECEIPT NO; Z-274-520-641

Ms. Nina Hutton Cross Timbers Oil Company 810 Houston St., Suite 2000 Fort Worth, Texas 76102-6298

#### **RE: SAN JUAN BASIN GROUND WATER MONITORING REPORTS**

Dear Ms. Hutton:

The New Mexico Oil Conservation Division (OCD) has reviewed Cross Timbers Oil Company's (CTOC) February 11, 1999 "CROSS TIMBERS OIL CO. GROUNDWATER MONITORING (AMOCO) 1996-1998 REPORTS, SAN JUAN COUNTY, NEW MEXICO" which was submitted on behalf of CTOC by their consultant Blagg Engineering, Inc. This document contains the results of CTOC's investigation, remediation and monitoring of ground water contamination related to the disposal of oilfield wastes in unlined pits at 7 sites in the San Juan Basin.

Based upon a review of the above referenced documents, the OCD has the following comments and requirements:

1. The downgradient and/or lateral extent of chloride and/or total dissolved solids contamination at the sites listed below has not been completely defined. The OCD requires that CTOC completely define the extent of these contaminants at each site pursuant to the previously approved ground water management plan for these sites.

-	Bergin GC #1E	Unit F, Sec. 21, T29N, R11W
-	Rowland GC #1	Unit P, Sec. 25, T30N, R12W
-	State GC BS #1	Unit F, Sec. 21, T29N, R11W
-	Sullivan GC D#1	Unit B, Sec. 26, T29N, R11W

2. The downgradient and/or lateral extent of benzene, toluene, ethylbenzene, xylene (BTEX), chloride and/or total dissolved solids contamination at the sites listed below has not been completely defined. The OCD requires that CTOC completely define the extent of these contaminants at each site pursuant to the previously approved ground water management plan for these sites.

- Bruington GC #1 - Valdez A #1E Unit E, Sec. 14, T29N, R11W Unit G, Sec. 24, T29N, R11W

- 3. A review of the sampling data shows that during some samplings only ground water from the monitor wells at the source is sampled and there is no downgradient monitoring to show that contaminated ground water is contained. In order to effectively monitor contaminant migration, the OCD requires that the ground water monitoring plan be modified to include additional ground water sampling of all monitor wells at each site on an annual basis. During the annual sampling event ground water from all monitor wells will be sampled and analyzed for BTEX, TDS, polynuclear aromatic hydrocarbons (PAH) and New Mexico Water Quality Control Commission (WQCC) cations and anions and metals using EPA approved methods and quality assurance/quality control procedures. Specific analytes may be dropped from the annual sampling event for certain sites if that analyte has not been found to be above WQCC standard in the sites source areas and the reasons for dropping those analytes are included in the annual reports. This sampling requirement will also be added to the ground water monitoring plan for all future ground water sampling at all CTOC sites with contaminated ground water.
- 4. CTOC recently purchased a number of well sites in the San Juan Basin from Amoco. Some of these sites were found to have ground water contamination which was discovered by Amoco during pit closure activities. The OCD does not have a listing of status of these sites. Please provide the OCD with a listing of all CTOC well sites in the San Juan Basin at which the presence of ground water was discovered during pit assessment or closure activities and the status of each site.

If you have any questions, please contact me at (505) 827-7154.

Sincerely.

William C. Olson Hydrologist Environmental Bureau

xc: Denny Foust, OCD Aztec District Office Nelson Velez, Blagg Engineering, Inc.

## BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

#### CLIENT: CROSS TIMBERS OIL CO.

CHAIN-OF-CUSTODY # : 10608

7025

LABORATORY (S) USED : ON - SITE TECH.

ENVIROTECH, INC.

NJV

STATE GC BS #1 - SEPARATOR PIT UNIT K, SEC. 23, T29N, R11W

SAMPLER: NJV

*Filename* : 06-29-00.WK4

Date : June 29, 2000

PROJECT	MANAGER	:

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	VOLUME	FREE
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	PURGED	PRODUCT
	(ft)	(ft)	(ft)	(ft)				(gal.)	(ft)
1	100.96	93.85	7.11	8.43	-	-	-	-	-
2	100.99			8.42	-	-	-	-	-
3	100.09	92.42	7.67	8.62	1125	7.3	4,300	0.50	-
4R	98.52	92.39	6.13	10.00	1055	7.1	3,400	2.00	
5R	100.93	92.03	8.90	10.00	1105	7.1	3,400	0.50	-

NOTES : <u>Volume of water purged from well prior to sampling</u>;  $V = pi X r_2 X h X 7.48 gal./ft3) X 3 (wellbores).$ (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:

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 ".

Very low quantity in all MW's. Collected BTEX & chloride samples from MW #'s 3, 4R, & 5R. Collected TDS sample from MW #3 only. OFF: (505) 325-5667 FAX: (505) 327-1496



LAB: (505) 325-1556 FAX: (505) 327-1496

#### ANALYTICAL REPORT

Date: 18-Jul-00

1 of 1

Client:	Blagg Engineering	Client Sample Info: State GC BS #1
Work Order:	0006069	Client Sample ID: MW #3
Lab ID:	0006069-01A Matrix: AQUEOUS	Collection Date: 6/29/2000 11:25:00 AM
Project:	Cross Timbers - State GC BS #1	<b>COC Record:</b> 10608

Parameter	Result	PQL	Qual (	Jnits	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	s	W8021B				Analyst: DC
Benzene	ND	0.5		µg/L	1	7/12/2000
Toluene	ND	0.5		µg/L	1	7/12/2000
Ethylbenzene	ND	0.5		µg/L	1	7/12/2000
m,p-Xylene	ND	1		µg/L	1	7/12/2000
o-Xylene	ND	0.5		µg/L	1	7/12/2000

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate
	P.O. BOX 2606 • FARMINO	GTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667 FAX: (505) 327-1496



LAB: (505) 325-1556 FAX: (505) 327-1496

#### ANALYTICAL REPORT

Date: 18-Jul-00

Client:	Blagg Engineering		Client Sample Info:	State GC BS #1		
Work Order:	0006069		<b>Client Sample ID:</b>	MW #4R		
Lab ID:	0006069-02A	Matrix: AQUEOUS	<b>Collection Date:</b>	6/29/2000 10:55:00 AM		
Project:	Cross Timbers - St	ate GC BS #1	<b>COC Récord:</b> 10608			

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	s	W8021B			Analyst: DM
Benzene	ND	0.5	µg/L	1	7/11/2000
Toluene	ND	0.5	µg/L	1	7/11/2000
Ethylbenzene	ND	0.5	µg/L	1	7/11/2000
m,p-Xylene	ND	1	µg/L	1	7/11/2000
o-Xylene	ND	0.5	µg/L	1	7/11/2000

 Qualifiers:
 PQL - Practical Quantitation Limit
 S - Spike Recovery outside accepted recovery limits

 ND - Not Detected at Practical Quantitation Limit
 R - RPD outside accepted recovery limits

 J - Analyte detected below Practical Quantitation Limit
 E - Value above quantitation range

 B - Analyte detected in the associated Method Blank
 Surr: - Surrogate

 P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

2 of 3

OFF: (505) 325-5667 FAX: (505) 327-1496



LAB: (505) 325-1556 FAX: (505) 327-1496

#### ANALYTICAL REPORT

Date: 18-Jul-00

Client: Work Order: Lab ID: Project:	Blagg Engineerin 0006069 0006069-03A Cross Timbers - S	g Matrix: AQU State GC BS #1	EOUS	Client Sample In Client Sample Collection Da COC Reco	<b>ifo:</b> State GC <b>ID:</b> MW #51 <b>ate:</b> 6/29/200 <b>rd:</b> 10608	C BS #1 R 00 11:05:00 AM
Parameter		Result	PQL	Qual Units	DF	Date Analyzed
AROMATIC VOL	ATILES BY GC/PI	)	SW8021B			Analyst: DM
Benzene		ND	0.5	µg/L	1	7/11/2000
Toluene		ND	0.5	µg/L	1	7/11/2000
Ethylbenzene		ND	0.5	µg/L	1	7/11/2000
m,p-Xylene		ND	1	μg/L	1	7/11/2000
o-Xylene		ND	0.5	µg/L	1	7/11/2000

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate
	P.O. BOX 2606 • FARMIN	GTON, NM 87499



Water Analysis

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 3	Date Reported:	06-30-00
Laboratory Number:	H632	Date Sampled:	06-29-00
Sample Matrix:	Water	Date Received:	06-29-00
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact	Chain of Custody:	7025

	Analytical	
Parameter	Result	Units
Total Dissolved Solids @ 180C	5,180	mg/L
Chloride	23.0	mg/L

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

Comments: State GC BS #1.

L. Cepure

Review Walters

# ENVIROTECH LABS

Water Analysis

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 4R	Date Reported:	06-30-00
Laboratory Number:	H633	Date Sampled:	06-29-00
Sample Matrix:	Water	Date Received:	06-29-00
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact	Chain of Custody:	7025

	Analytical		
Parameter	Result	Units	

Chloride

11.0

mg/L

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

Comments: State GC BS #1.

Analyst

"hristin Muleters

# ENVIROTECH LABS

Water Analysis

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW # 5R	Date Reported:	06-30-00
Laboratory Number:	H634	Date Sampled:	06-29-00
Sample Matrix:	Water	Date Received:	06-29-00
Preservative:	Cool	Date Analyzed:	06-30-00
Condition:	Cool & Intact	Chain of Custody:	7025
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	Analytical		
Parameter	Result	Units	

Chloride

12.9

mg/L

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

Comments: State GC BS #1.

Analvst

hristin Matters

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# CHAIN OF CUSTODY RECORD

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CLIENT:Blagg EngineeringWork Order:0006069

Project: Cross Timbers - State GC BS #1

#### Analysis Date: 7/11/2000 Sample ID: MB1 Batch ID: GC-1\_000711 Test Code: SW8021B Units: µg/L Prep Date: 0006069 Client ID: Run ID: GC-1 000711A 29854 SeqNo: Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Benzene .0595 0.5 J ND Ethylbenzene 0.5 ND m,p-Xylene 1 ND Methyl tert-Butyl Ether 1 o-Xylene ND 0.5 Toluene .0916 0.5 J Sample ID: MB1 Batch ID: GC-1\_000712 Test Code: SW8021B Analysis Date: 7/12/2000 Units: µg/L Prep Date: Client ID: 0006069 Run ID: GC-1\_000712A SeqNo: 29926 Analyte Result POL SPK value SPK Ref Val %REC LowLimit HighLimit RPD Ref Val %RPD RPDLimit Qual Benzene ND 0.5 Ethylbenzene .1388 0.5 J m,p-Xylene .4757 J 1 Methyl tert-Butyl Ether ND 1 o-Xylene .1557 0.5 J Toluene .2024 0.5 J

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

~ Date: 18-Jul-00

### **QC SUMMARY REPORT**

Method Blank

1 of 1

CLIENT: Blagg Engineering

Work Order: 0006069

Qualifiers:

**Project:** Cross Timbers - State GC BS #1

#### S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected be	low quantitation limits
-------------------------	-------------------------

ND - Not Detected at the Reporting Limit

R - RPD outside accepted recovery limits

- 1	of $2$

Sample ID: 0006072-29AMS	Batch ID: GC-1_000711	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/11/	2000	Prep Da	ate:			
Client ID:	0006069	Run ID:	GC-1_000711	Α		SeqNo:	2985	5					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	10880	100	8000	2621	103.3%	73	126						
Ethylbenzene	9217	100	0008	919.5	103.7%	88	113						
m,p-Xylene	16530	200	16000	844.8	98.1%	83	112						
Methyl tert-Butyl Ether	37240	200	8000	30020	90.2%	81	125						
o-Xylene	8424	100	8000	62.34	104.5%	93	110						
Toluene	8474	100	8000	86.84	104.8%	76	126						
Sample ID: 0006072-29AMSD	Batch ID: GC-1_000711	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/11/	2000	Prep Da	Prep Date:			
Client ID:	0006069	Run ID:	GC-1_000711	Α		SeqNo:	29856	5					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual		
Benzene	10610	100	8000	2621	99.9%	73	126	10880	2.5%	6			
					400.00/	00	110	0217	2.5%	5			
Ethylbenzene	8993	100	8000	919.5	100.9%	00	113	9217	2.370	5			
Ethylbenzene m,p-Xylene	8993 16140	100 200	8000 16000	919.5 844.8	100.9% 95.6%	00 83	112	16530	2.3%	· 7			
Ethylbenzene m,p-Xylene Methyl tert-Butyl Ether	8993 16140 36330	100 200 200	8000 16000 8000	919.5 844.8 30020	100.9% 95.6% 78.8%	83 81	112 125	16530 37240	2.5% 2.4% 2.5%	· 7 9	S		
Ethylbenzene m,p-Xylene Methyl tert-Butyl Ether o-Xylene	8993 16140 36330 8255	100 200 200 100	8000 16000 8000 8000	919.5 844.8 30020 62.34	95.6% 78.8% 102.4%	83 81 93	113 112 125 110	16530 37240 8424	2.3% 2.4% 2.5% 2.0%	· 7 9 6	S		

## QC SUMMARY REPORT

Sample Matrix Spike

Date: 18-Jul-00

#### CLIENT: Blagg Engineering

**Work Order:** 0006069

Project: Cross Timbers - State GC BS #1

## QC SUMMARY REPORT

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Sample Matrix Spike

Sample ID: 0006074-03AMS	Batch ID: GC-1_000712	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/12/	2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000712	A		SeqNo:	29927	,			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2059	25	2000	46.08	100.7%	88	112				
Ethylbenzene	2805	25	2000	776.7	101.4%	86	113				
m,p-Xylene	9997	50	4000	6132	96.6%	85	108				
Methyl tert-Butyl Ether	2166	50	2000	46.08	106.0%	86	117				
o-Xylene	2352	25	2000	299.2	102.6%	92	110				
Toluene	2130	25	2000	38.93	104.5%	88	116				
Sample ID: 0006074-03AMSD	Batch ID: GC-1_000712	Test Code	SW8021B	Units: µg/L		Analysis	Date: 7/12/	2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000712	A		SeqNo:	29928	3			
Client ID: Analyte	0006069 Result	Run ID: PQL	GC-1_000712 SPK value	A SPK Ref Val	%REC	SeqNo: LowLimit	<b>29928</b> HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Client ID: Analyte Benzene	0006069 Result 2001	Run ID: PQL 25	GC-1_000712 SPK value 2000	A SPK Ref Val 46.08	%REC	SeqNo: LowLimit 88	29928 HighLimit 112	RPD Ref Val	%RPD 2.9%	RPDLimit	Qual
Client ID: Analyte Benzene Ethylbenzene	0006069 Result 2001 2725	Run ID: PQL 25 25	GC-1_000712 SPK value 2000 2000	A SPK Ref Val 46.08 776.7	%REC 97.8% 97.4%	SeqNo: LowLimit 88 86	29928 HighLimit 112 113	3 RPD Ref Val 2059 2805	%RPD 2.9% 2.9%	RPDLimit 6 6	Qual
Client ID: Analyte Benzene Ethylbenzene m,p-Xylene	0006069 Result 2001 2725 9715	Run ID: PQL 25 25 50	GC-1_000712 SPK value 2000 2000 4000	A SPK Ref Val 46.08 776.7 6132	%REC 97.8% 97.4% 89.6%	SeqNo: LowLimit 88 86 85	29928 HighLimit 112 113 108	B RPD Ref Val 2059 2805 9997	%RPD 2.9% 2.9% 2.9%	RPDLimit 6 6	Qual
Client ID: Analyte Benzene Ethylbenzene m,p-Xylene Methyl tert-Butyl Ether	0006069 Result 2001 2725 9715 2137	Run ID: PQL 25 25 50 50	GC-1_000712 SPK value 2000 2000 4000 2000	A SPK Ref Val 46.08 776.7 6132 46.08	%REC 97.8% 97.4% 89.6% 104.6%	SeqNo: LowLimit 88 86 85 86	29928 HighLimit 112 113 108 117	B RPD Ref Val 2059 2805 9997 2166	%RPD 2.9% 2.9% 2.9% 1.3%	RPDLimit 6 6 6 7	Qual
Client ID: Analyte Benzene Ethylbenzene m,p-Xylene Methyl tert-Butyl Ether o-Xylene	0006069 Result 2001 2725 9715 2137 2285	Run ID: PQL 25 25 50 50 25	GC-1_000712 SPK value 2000 2000 4000 2000 2000	A SPK Ref Val 46.08 776.7 6132 46.08 299.2	%REC 97.8% 97.4% 89.6% 104.6% 99.3%	SeqNo: LowLimit 88 86 85 86 92	29928 HighLimit 112 113 108 117 110	RPD Ref Val 2059 2805 9997 2166 2352	%RPD 2.9% 2.9% 1.3% 2.9%	RPDLimit 6 6 7 6	Qual

Qualifiers:

ND - Not Detected at the Reporting Limit

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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

CLIENT: Blagg Engineering Work Order: 0006069

**Project:** Cross Timbers - State GC BS #1

#### Date: 18-Jul-00

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### QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000711	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/11/	2000	Prep Da	ite:	
Client ID:	0006069	Run ID:	GC-1_000711	A		SeqNo:	29853	5			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.66	0.5	40	0.0595	104.0%	89	112				
Ethylbenzene	41.39	0.5	40	0	103.5%	93	112				
m,p-Xylene	78.06	1	80	0	97.6%	88	108				
Methyl tert-Butyl Ether	41.46	1	40	0	103.7%	87	115				
o-Xylene	41.44	0.5	40	0	103.6%	93	112				
Toluene	41.62	0.5	40	0.0916	103.8%	92	111				
Sample ID: LCS WATER	Batch ID: GC-1_000712	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/12/	2000	· Prep Date:		
Client ID:	0006069	Run ID:	GC-1_000712	A		SeqNo:	29925	5			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.32	0.5	40	0	100.8%	96	111				
Ethylbenzene	40.29	0.5	40	0.1388	100.4%	96	111				
m,p-Xylene	76.04	1	80	0.4757	94.4%	92	105				
Methyl tert-Butyl Ether	40.39	1	40	0	101.0%	93	113	-			
o-Xylene	40.55	0.5	40	0.1557	101.0%	97	110				
Toluene	40.52	0.5	40	0.2024	100.8%	97	109				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

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1 of 1

CLIENT: Blagg Engineering Work Order: 0006069

**Project:** Cross Timbers - State GC BS #1

#### · Date: 18-Jul-00

## **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0007	Batch ID: GC-1_000711	Test Code	SW8021B	Units: µg/L		Analysis	Date: 7/11	/2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000711	Α		SeqNo:	2985	0			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.97	. 0.5	20	0	109.8%	85	115				
Ethylbenzene	21.8	0.5	20	0	109.0%	85	115				
m,p-Xylene	41.3	1	40	0	103.2%	85	115				
Methyl tert-Butyl Ether	21.84	1	20	0	109.2%	85	115				
o-Xylene	21.96	0.5	20	0	109.8%	85	115				
Toluene	21.9	0.5	20	0	109.5%	85	115				
1,4-Difluorobenzene	89.22	0	100	0	89.2%	80	105				
4-Bromochlorobenzene	85.5	0	1,00	0	85.5%	78	108				
Fluorobenzene	87.73	0	100	0	87.7%	78	108				
Sample ID: CCV2 BTEX_0007	Batch ID: GC-1_000711	Test Code	SW8021B	Units: µg/L		Analysis	5 Date: 7/11	/2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000711	Α		SeqNo:	2985	1			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.06	0.5	20	0	105.3%	85	115				
Ethylbenzene	20.8	0.5	20	0	104.0%	85	115				
m,p-Xylene	39.43	1	40	0	98.6%	85	115				
Methyl tert-Butyl Ether	21.51	1	20	0	107.5%	85	115				
o-Xylene	21.03	0.5	20	0	105.2%	85	115				
Toluene	21.03	0.5	20	0	105.1%	85	115				
1,4-Difluorobenzene	89.09	0	100	0	89.1%	80	105				
4-Bromochlorobenzene	85.09	0	100	0	85.1%	78	108				
Fluorobenzene	87.47	0	100	Ö	87.5%	78	108				

Qualifiers:

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

1 of 3

## CLIENT:Blagg EngineeringWork Order:0006069

**Project:** Cross Timbers - State GC BS #1

## QC SUMMARY REPORT

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Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0007	Batch ID: GC-1_000711	Test Code:	SW8021B	Units: µg/L	Analysis Date: 7/11/2000				Prep Date:			
Client ID:	0006069	Run ID:	GC-1_000711	Α		SeqNo:	29852	2				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	41.47	0.5	40	0	103.7%	85	115					
Ethylbenzene	41.06	0.5	40	0	102.7%	85	115					
m,p-Xylene	77.66	1	80	0	97.1%	. 85	115					
Methyl tert-Butyl Ether	43.51	1	40	0	108.8%	85	115					
o-Xylene	41.46	0.5	40	0	103.6%	85	115			•		
Toluene	41.6	0.5	40	0	104.0%	85	115					
1,4-Difluorobenzene	88.8	0	100	0	88.8%	80	105					
4-Bromochlorobenzene	84.38	0	100	0	84.4%	78	108					
Fluorobenzene	87.12	0	100	0	87.1%	78	108					
Sample ID: CCV1 BTEX_0007	Batch ID: GC-1_000712	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/12	2000	Prep D	ate:	- ·	
Client ID:	0006069	Run ID:	GC-1_000712	2A		SeqNo:	29922	2				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
Benzene	21.07	0.5	20	0	105.4%	85	115					
Ethylbenzene	21.12	0.5	20	0	105.6%	85	115					
m,p-Xylene	40.04	1	40	0	100.1%	85	115	~				
Methyl tert-Butyl Ether	20.54	1	20	0	102.7%	85	115					
o-Xylene	21.16	0.5	20	0	105.8%	85	115					
Toluene	21.21	0.5	20	0	106.1%	85	115					
1,4-Difluorobenzene	. 89.52	0	100	0	89.5%	79	101					
4-Bromochlorobenzene												
	85.38	0	100	0	85.4%	78	99					

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

#### CLIENT: Blagg Engineering Work Order: 0006069

#### **Project:** Cross Timbers - State GC BS #1

## **QC SUMMARY REPORT**

Continuing Calibration Verification Standard

Sample ID: CCV2 BTEX_0007	Batch ID: GC-1_000712	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/12	/2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000712	2A		SeqNo:	2992	3			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.82	0.5	20	0	104.1%	85	115				
Ethylbenzene	20.84	0.5	20	0	104.2%	85	115				
m,p-Xylene	39.65	1	40	0	99.1%	85	115				
Methyl tert-Butyl Ether	21.62	1	20	0	108.1%	85	115				
o-Xylene	21.03	0.5	20	0	105.2%	85	115				
Toluene	20.94	0.5	20	0	104.7%	85	115				
1,4-Difluorobenzene	89.55	0	100	0	89.6%	79	10 <b>1</b>				
4-Bromochlorobenzene	84.58	0	100	0	84.6%	78	99				
Fluorobenzene	87.93	0	100	0	87.9%	76	103				
Sample ID: CCV3 BTEX_0007	Batch ID: GC-1_000712	Test Code:	SW8021B	Units: µg/L		Analysis	Date: 7/12	/2000	Prep Da	ate:	
Client ID:	0006069	Run ID:	GC-1_000712	2A		SeqNo:	2992	4			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.54	0.5	40	0	101.3%	85	115				
Ethylbenzene	40.45	0.5	40	0	101.1%	85	115				
m,p-Xylene	77.29	1	80	0	96.6%	85	115				
Methyl tert-Butyl Ether	35.83	1	40	0	89.6%	85	115				
o-Xylene	40.94	0.5	40	0	102.3%	85	115				

Qualifiers:

Toluene

1,4-Difluorobenzene

Fluorobenzene

4-Bromochlorobenzene

ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

40.74

90.08

88.66

88.92

0.5

0

0

0

40

100

100

100

R - RPD outside accepted recovery limits

0

0

0

0

101.8%

90.1%

88.7%

88.9%

85

79

78

76

115

101

99

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CLIENT:	Blagg Engineering
Work Order:	0006069
Project:	Cross Timbers - State GC BS #1
Test No:	SW8021B

## QC SUMMARY REPORT SURROGATE RECOVERIES

#### Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ	
0006066-03A	87.7	83.5	86.2	
0006066-04A	87.5	81.9	85.6	
0006066-06A	89.8	85.5	88.2	
0006066-07A	89.7	84.9	88.1	
0006069-01A	90	84.6	88.7	
0006069-02A	89.7	85.2	88.1	
0006069-03A	89.7	85.4	88.1	
0006070-01A	86.4	83.8	85.7	
0006070-02A	88.2	83.4	86.8	
0006072-29A	89	84.6	87.4	
0006072-29AMS	88.1	85.5	86.5	
0006072-29AMSD	88.4	86	86.8	
0006072-30A	88.6	84.3	86.9	
0006072-32A	89.4	85.6	87.9	
0006072-34A	88.8	85.6	87	
0006073-01A	89.1	84.5	87.9	
0006073-02A	90	84.8	88.6	
0006074-01A	89.4	84.4	88.2	
0006074-02A	89.7	84.9	88.2	
0006074-03A	89.8	83.4	88.2	
0006074-03AMS	87.5	84.5	86.8	
0006074-03AMSD	87.5	85.4	86.6	
0006074-04A	89.7	85.4	88.5	
0007003-01A	89.9	84.9	88.4	
0007005-01A	89.4	84.7	88.5	
0007006-01A	90.4	83.9	88.6	
0007006-02A	89.9	83.2	88.9	

Surrogate	QC Limits
= 1,4-Difluorobenzene	80-105
= 1,4-Difluorobenzene	79-101
= 4-Bromochlorobenzene	78-99
= 4-Bromochlorobenzene	78-108
= Fluorobenzene	78-108
= Fluorobenzene	76-103
	Surrogate = 1,4-Difluorobenzene = 1,4-Difluorobenzene = 4-Bromochlorobenzene = 4-Bromochlorobenzene = Fluorobenzene = Fluorobenzene

\* Surrogate recovery outside acceptance limits

# CLIENT:Blagg EngineeringWork Order:0006069Project:Cross Timbers - State GC BS #1Test No:SW8021B

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## QC SUMMARY REPORT SURROGATE RECOVERIES

#### Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ	
0007006-03A	90.1	85.1	88.5	
0007006-05A	90.4	85.1	88.5	
0007006-06A	89.6	85.4	88.8	
0007006-07A	89.7	84.8	88.6	
0007007-01A	89.3	84.8	88.7	
0007007-02A	107 *	86.4	88.8	
0007007-03A	90	84.9	88.8	
0007007-04A	149 *	85.4	103 *	
0007007-05A	89.7	84.6	88.6	
0007007-06A	89.8	84.8	88.4	
0007007-07A	89.3	85	88.4	
CCV1 BTEX_00070	89.5	85.4	87.6	
CCV2 BTEX_00070	89.6	84.6	87.9	
CCV3 BTEX_00070	90.1	88.7	88.9	
LCS WATER	88.9	85.5	87	
MB1	89.8	84.3	88.5	

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	80-105
14FBZ	=	1,4-Difluorobenzene	79-101
4BCBZ	=	4-Bromochlorobenzene	78-99
4BCBZ	=	4-Bromochlorobenzene	78-108
FLBZ	=	Fluorobenzene	78-108
FLBZ	=	Fluorobenzene	76-103

\* Surrogate recovery outside acceptance limits

## BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

#### CLIENT: <u>CROSS TIMBERS OIL CO.</u>

CHAIN-OF-CUSTODY #: 7482

STATE GC BS #1 - SEPARATOR PIT UNIT K, SEC. 23, T29N, R11W

Date : August 25, 2000

*Filename* : 08-25-00.WK4

LABORATORY (S) USED : ENVIROTECH, INC.

SAMPLER : NJV PROJECT MANAGER : NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	VOLUME	FREE
#	ELEV.	ELEV.	WATER	DEPTH	TIME		(umhos)	PURGED	PRODUCT
	(ft)	(ft)	(ft)	(ft)				(gal.)	(ft)
6	-	-	5.30	10.00	0855	7.1	4,000	2.25	-

NOTES: <u>Volume of water purged from well prior to sampling</u>;  $V = pi X r^2 X h X 7.48 gal./ft3) X 3 (wellbores).$ (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:

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 ".

Installed MW #6 on July 13, 2000. 5 ft. casing, 5 ft. 0.020 slotted screen with pointed end cap, sanded annular with silica sand to surface. Top of casing approx. 2 ft. above ground surface. Developed MW #6 prior to sampling. Poor recovery in MW #6. Collected TDS sample from MW #6 only.

## NVIROTEC CTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #6	Date Reported:	08-28-00
Laboratory Number:	1039	Date Sampled:	08-25-00
Sample Matrix:	Water	Date Received:	08-25-00
Preservative:	Cool	Date Analyzed:	08-25-00
Condition:	Cool & Intact	Chain of Custody:	7482

	Analytical	
Parameter	Result	Units

**Total Dissolved Solids @ 180C** 

8,070

mg/L

Reference:

U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: State GC BS #1.

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Analyst

Mistin Maeters

# CHAIN OF CUSTODY RECORD

The second													
Client / Project Name BLREG CROSS TIMBERS		Project Location			ANALYSIS / PARAMETERS								
													Sampler: NJV
403410		of	705							<u> </u>			
Sample No./ Identification	Sample No./ Sample Sam Identification Date Tim		Lab Number	Sample Matrix	Conta Conta								
MW #6	8/25/20	0855	I039	WATER	1			+		RESERV	<	200	» <u>~</u>
							·····	+					
												-	
					-								
									_				
Relinquished by: (Signat	ure) Vel	<b>#</b>		Date Time 8/25/00 0927	Received by:	(Signature)	_L.(	214	Re-	D R	ate -25-20	Ti G.	me 2 7
Relinquished by: (Signat	ure) d			,,	Received by:	(Signature)		70-					
Relinquished by: (Signature)				Received by:	eived by: (Signature)								
				EOVIDOTECH IOC					Sample R	e Receipt			
							i				Y	N	N/A
				5796 U.S. Farmington, No	Highway ew Mexico	64 0 87401			Recei	ved Intact	V		
				(505) (	632-0615				Cool - I	ce/Blue Ice	V		