BP AMERICA PRODUCTION CO

LEEPER GAS COM #001

API# 30-045-11142

C-141

Part 3 of 3

On Site Technologies, LTD.

Date: *22-Oct-99*

CLIENT: Blagg Engineering
Work Order: 9910009
Project: Leeper GC #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_991015	Test Code: SW8021B	Units: µg/L	Analysis Date: 10/15/99	Prep Date:
Client ID: 9910009	Run ID: GC-1_991015A			SeqNo: 20606	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.4	0.5	40	0	103.5%	87	119				
Ethylbenzene	41.95	0.5	40	0	104.9%	89	117				
m,p-Xylene	78.11	1	80	0.2588	97.3%	88	114				
Methyl tert-Butyl Ether	38.6	1	40	0	96.5%	69	129				
o-Xylene	41.1	0.5	40	0.0849	102.6%	90	116				
Toluene	41.28	0.5	40	0.2295	102.6%	90	115				

Sample ID: LCS WATER	Batch ID: GC-1_991016	Test Code: SW8021B	Units: µg/L	Analysis Date: 10/16/99	Prep Date:
Client ID: 9910009	Run ID: GC-1_991016A			SeqNo: 20633	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	43.3	0.5	40	0	108.3%	87	119				
Ethylbenzene	43.99	0.5	40	0	110.0%	89	117				
m,p-Xylene	81.97	1	80	0.1669	102.3%	88	114				
Methyl tert-Butyl Ether	42.42	1	40	0	106.0%	69	129				
o-Xylene	43.13	0.5	40	0	107.8%	90	116				
Toluene	43.27	0.5	40	0.1699	107.7%	90	115				

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

On Site Technologies, LTD.

Date: 22-Oct-99

CLIENT: Blagg Engineering
Work Order: 9910009
Project: Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_9910** Batch ID: **GC-1_991015** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **10/15/99** Prep Date:

Client ID: **9910009** Run ID: **GC-1_991015A** SeqNo: **20603**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.62	0.5	20	0	108.1%	85	115				
Ethylbenzene	21.89	0.5	20	0	109.4%	85	115				
m,p-Xylene	41.04	1	40	0	102.6%	85	115				
Methyl tert-Butyl Ether	19.65	1	20	0	98.3%	85	115				
o-Xylene	21.52	0.5	20	0	107.6%	85	115				
Toluene	21.49	0.5	20	0	107.5%	85	115				
1,4-Difluorobenzene	90.6	0	100	0	90.6%	80	120				
4-Bromochlorobenzene	93.38	0	100	0	93.4%	80	120				
Fluorobenzene	89.25	0	100	0	89.3%	80	120				

Sample ID: **CCV2 BTEX_9910** Batch ID: **GC-1_991015** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **10/15/99** Prep Date:

Client ID: **9910009** Run ID: **GC-1_991015A** SeqNo: **20604**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.53	0.5	20	0	107.6%	85	115				
Ethylbenzene	21.71	0.5	20	0	108.6%	85	115				
m,p-Xylene	40.48	1	40	0	101.2%	85	115				
Methyl tert-Butyl Ether	20.44	1	20	0	102.2%	85	115				
o-Xylene	21.36	0.5	20	0	106.8%	85	115				
Toluene	21.36	0.5	20	0	106.8%	85	115				
1,4-Difluorobenzene	90.39	0	100	0	90.4%	80	120				
4-Bromochlorobenzene	94.89	0	100	0	94.9%	80	120				
Fluorobenzene	89.54	0	100	0	89.5%	80	120				

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

CLIENT: Blagg Engineering
Work Order: 9910009
Project: Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV3 BTEX_9910** Batch ID: **GC-1_991015** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **10/15/99** Prep Date:
Client ID: **9910009** Run ID: **GC-1_991015A** SeqNo: **20605**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.66	0.5	40	0	104.2%	85	115				
Ethylbenzene	41.74	0.5	40	0	104.4%	85	115				
m,p-Xylene	77.74	1	80	0	97.2%	85	115				
Methyl tert-Butyl Ether	40.98	1	40	0	102.4%	85	115				
o-Xylene	41	0.5	40	0	102.5%	85	115				
Toluene	41.38	0.5	40	0	103.4%	85	115				
1,4-Difluorobenzene	89.97	0	100	0	90.0%	80	120				
4-Bromochlorobenzene	93.68	0	100	0	93.7%	80	120				
Fluorobenzene	88.9	0	100	0	88.9%	80	120				

Sample ID: **CCV1 BTEX_9910** Batch ID: **GC-1_991016** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **10/16/99** Prep Date:
Client ID: **9910009** Run ID: **GC-1_991016A** SeqNo: **20630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.24	0.5	20	0	111.2%	85	115				
Ethylbenzene	22.69	0.5	20	0	113.4%	85	115				
m,p-Xylene	42.46	1	40	0	106.2%	85	115				
Methyl tert-Butyl Ether	21.7	1	20	0	108.5%	85	115				
o-Xylene	22.21	0.5	20	0	111.1%	85	115				
Toluene	22.26	0.5	20	0	111.3%	85	115				
1,4-Difluorobenzene	90.46	0	100	0	90.5%	80	120				
4-Bromochlorobenzene	92.68	0	100	0	92.7%	80	120				
Fluorobenzene	89.18	0	100	0	89.2%	80	120				

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

CLIENT: Blagg Engineering
Work Order: 9910009
Project: Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV2 BTEX_9910** Batch ID: **GC-1_991016** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **10/16/99** Prep Date:

Client ID: **9910009** Run ID: **GC-1_991016A** SeqNo: **20831**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.14	0.5	20	0	105.7%	85	115				
Ethylbenzene	22.06	0.5	20	0	110.3%	85	115				
m,p-Xylene	40.28	1	40	0	100.7%	85	115				
Methyl tert-Butyl Ether	21.6	1	20	0	108.0%	85	115				
o-Xylene	21.6	0.5	20	0	108.0%	85	115				
Toluene	21.25	0.5	20	0	106.3%	85	115				
1,4-Difluorobenzene	90.35	0	100	0	90.4%	80	120				
4-Bromochlorobenzene	92.29	0	100	0	92.3%	80	120				
Fluorobenzene	88.98	0	100	0	89.0%	80	120				

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

On Site Technologies, LTD.

Date: 22-Oct-99

CLIENT: Blagg Engineering
Work Order: 9910009
Project: Leeper GC #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9910009-01A	90.4	93.5	89.8
9910009-02A	90.9	91.9	91.9
9910009-03A	90.4	92.8	89
9910009-04A	91	97.2	90.3
9910012-01A	90.4	94.2	89.7
9910013-01A	89.2	91.8	88.6
9910015-01A	95.3	95.5	90.5
9910015-01AMS	95.1	93.7	90.3
9910015-01AMSD	95	95.4	91.1
9910015-02A	100	96.8	93.7
9910015-03A	91.1	93.8	90.1
9910015-04A	91	93.8	90.5
9910015-05A	90.9	93.8	89.9
9910015-05AMS	89.4	92.8	88.6
9910015-05AMSD	89.5	92.7	88.7
9910015-06A	90.7	93.8	90.6
9910015-07A	96.1	93.5	92.7
9910015-20A	91.1	94.4	90.2
9910015-21A	91	93.8	89.9
9910015-22A	90.6	93.4	89.9
9910015-23A	91	93	90
9910015-24A	90.5	92.9	90.1
9910015-25A	90.9	92.7	90.2
9910015-26A	90.2	94.5	89.5
9910017-01A	91	92.9	90.2
9910017-02A	90.9	93.4	89.9
9910017-03A	90.8	93.6	90.2

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	80-120
4BCBZ	=	4-Bromochlorobenzene	80-120
FLBZ	=	Fluorobenzene	80-120

*** Surrogate recovery outside acceptance limits**

/

CLIENT:	Blagg Engineering
Work Order:	9910009
Project:	Leeper GC #1
Test No:	SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
9910017-04A	93.9	94.7	88.9
9910017-05A	93.9	93.4	89.1
CCV1 BTEX_99100	90.4	92.7	89.2
CCV2 BTEX_99100	90.4	92.3	89
CCV3 BTEX_99100	90	93.7	88.9
LCS WATER	90.4	92.2	89
MB1	96.6	99.3	100

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	80-120
4BCBZ	=	4-Bromochlorobenzene	80-120
FLBZ	=	Fluorobenzene	80-120

*** Surrogate recovery outside acceptance limits**

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO **CHAIN-OF-CUSTODY # :**

LOCATION : LEEPER GC # 1 **LABORATORY (S) USED :**

Date : January 3, 2000 **SAMPLER :**

Filename : 01-03-00.WK4 **PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
M-WELL	106.41	93.71	12.70	25.00	-	-	-	-	-
2	104.79	93.40	11.39	15.21	-	-	-	-	-
4	105.41	93.69	11.72	19.88	-	-	-	-	-
5	108.04	93.63	14.41	23.50	-	-	-	-	-
6	107.40	93.47	13.93	23.00	-	-	-	-	-
7	107.17	93.44	13.73	22.00	-	-	-	-	-

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:

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".

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC 1
Work Order:	0001002	**Client Sample ID:**	MW-4; 0103001430
Lab ID:	0001002-01A **Matrix:** AQUEOUS	**Collection Date:**	1/3/2000 2:30:00 PM
Project:	Leeper GC 1	**COC Record:**	10344

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/5/2000
Toluene	ND	0.5		µg/L	1	1/5/2000
Ethylbenzene	ND	0.5		µg/L	1	1/5/2000
m,p-Xylene	ND	1		µg/L	1	1/5/2000
o-Xylene	ND	0.5		µg/L	1	1/5/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC 1
Work Order:	0001002	**Client Sample ID:**	MW-5; 0104001039
Lab ID:	0001002-02A **Matrix:** AQUEOUS	**Collection Date:**	1/4/2000 10:39:00 AM
Project:	Leeper GC 1	**COC Record:**	10344

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/5/2000
Toluene	ND	0.5		µg/L	1	1/5/2000
Ethylbenzene	ND	0.5		µg/L	1	1/5/2000
m,p-Xylene	ND	1		µg/L	1	1/5/2000
o-Xylene	ND	0.5		µg/L	1	1/5/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC 1
Work Order:	0001002	**Client Sample ID:**	MW-6; 0104001305
Lab ID:	0001002-03A **Matrix:** AQUEOUS	**Collection Date:**	1/4/2000 1:05:00 PM
Project:	Leeper GC 1	**COC Record:**	10344

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/5/2000
Toluene	ND	0.5		µg/L	1	1/5/2000
Ethylbenzene	ND	0.5		µg/L	1	1/5/2000
m,p-Xylene	ND	1		µg/L	1	1/5/2000
o-Xylene	ND	0.5		µg/L	1	1/5/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC 1
Work Order:	0001002	**Client Sample ID:**	MW-7; 0104001518
Lab ID:	0001002-04A **Matrix:** AQUEOUS	**Collection Date:**	1/4/2000 3:18:00 PM
Project:	Leeper GC 1	**COC Record:**	10344

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/5/2000
Toluene	0.8	0.5		µg/L	1	1/5/2000
Ethylbenzene	ND	0.5		µg/L	1	1/5/2000
m,p-Xylene	ND	1		µg/L	1	1/5/2000
o-Xylene	ND	0.5		µg/L	1	1/5/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
PROJECT LOCATION:		Number of Containers	ANALYSIS REQUESTED
SAMPLER'S SIGNATURE:			

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES.	Number of Containers	ANALYSIS REQUESTED	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐	

Authorized by: _____ Date _____

(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001002
Project: Leeper GC 1

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22456**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1773	0.5									J
Ethylbenzene	.1232	0.5									J
m,p-Xylene	.1894	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.0695	0.5									J
Toluene	.1583	0.5									J

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

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001002
Project: Leeper GC 1

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9912031-24AMS** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22457**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2292	5	400	1898	98.6%	80	116				E
Ethylbenzene	1184	5	400	616.1	141.9%	80	118				S
m,p-Xylene	1413	10	800	521.4	111.4%	77	116				
Methyl tert-Butyl Ether	502.7	10	400	113.8	97.2%	62	122				
o-Xylene	567.2	5	400	152.8	103.6%	83	117				
Toluene	421	5	400	5.569	103.9%	80	116				

Sample ID: **9912031-24AMSD** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22458**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2256	5	400	1898	89.5%	80	116	2292	1.6%	7	E
Ethylbenzene	1181	5	400	616.1	141.1%	80	118	1184	0.3%	7	S
m,p-Xylene	1406	10	800	521.4	110.6%	77	116	1413	0.5%	7	
Methyl tert-Butyl Ether	499.4	10	400	113.8	96.4%	62	122	502.7	0.7%	7	
o-Xylene	566.9	5	400	152.8	103.5%	83	117	567.2	0.0%	6	
Toluene	415.2	5	400	5.569	102.4%	80	116	421	1.4%	6	

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

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001002
Project: Leeper GC 1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22455**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.1	0.5	40	0.1773	102.3%	87	119				
Ethylbenzene	40.96	0.5	40	0.1232	102.1%	89	117				
m,p-Xylene	78.38	1	80	0.1894	97.7%	88	114				
Methyl tert-Butyl Ether	40.64	1	40	0	101.6%	69	129				
o-Xylene	41.11	0.5	40	0.0695	102.6%	90	116				
Toluene	40.72	0.5	40	0.1583	101.4%	90	115				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001002
Project: Leeper GC 1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_0001** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22453**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.5	0.5	20	0	102.5%	85	115				
Ethylbenzene	20.64	0.5	20	0	103.2%	85	115				
m,p-Xylene	39.09	1	40	0	97.7%	85	115				
Methyl tert-Butyl Ether	20.38	1	20	0	101.9%	85	115				
o-Xylene	20.49	0.5	20	0	102.5%	85	115				
Toluene	20.41	0.5	20	0	102.0%	85	115				
1,4-Difluorobenzene	89.92	0	100	0	89.9%	80	120				
4-Bromochlorobenzene	89.65	0	100	0	89.7%	80	120				
Fluorobenzene	89.28	0	100	0	89.3%	80	120				

Sample ID: **CCV2 BTEX_0001** Batch ID: **GC-1_000105** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/5/2000** Prep Date:

Client ID: **0001002** Run ID: **GC-1_000105A** SeqNo: **22454**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.2	0.5	20	0	101.0%	85	115				
Ethylbenzene	20.35	0.5	20	0	101.8%	85	115				
m,p-Xylene	38.59	1	40	0	96.5%	85	115				
Methyl tert-Butyl Ether	21.12	1	20	0	105.6%	85	115				
o-Xylene	20.34	0.5	20	0	101.7%	85	115				
Toluene	20.2	0.5	20	0	101.0%	85	115				
1,4-Difluorobenzene	89.97	0	100	0	90.0%	80	120				
4-Bromochlorobenzene	89.54	0	100	0	89.5%	80	120				
Fluorobenzene	88.99	0	100	0	89.0%	80	120				

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

On Site Technologies, LTD.

Date: 14-Jan-00

CLIENT: Blagg Engineering
Work Order: 0001002
Project: Leeper GC 1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0001002-01A	90.2	88.6	89.8
0001002-02A	90.4	89.4	89.4
0001002-03A	90.1	89.6	89.9
0001002-04A	90	89.5	89.7
9912031-21A	86	83.8	85.6
9912031-22A	86.3	84.2	85.4
9912031-24A	90.4	89.4	88.6
9912031-24AMS	90.1	89.3	88
9912031-24AMSD	90.2	88.8	88.5
9912031-25A	89.4	89.8	89.2
9912031-26A	95.3	87.2	90.4
CCV1 BTEX_00010	89.9	89.6	89.3
CCV2 BTEX_00010	90	89.5	89
LCS WATER	89.5	90.3	89
MB1	90.1	89.3	90

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	80-120
4BCBZ	=	4-Bromochlorobenzene	80-120
FLBZ	=	Fluorobenzene	80-120

*** Surrogate recovery outside acceptance limits**

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	Decon Rinsate-0106000840
Lab ID:	0001008-01A **Matrix:** AQUEOUS	**Collection Date:**	1/6/2000 8:40:00 AM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	Trip Blank-0106000900
Lab ID:	0001008-02A **Matrix:** AQUEOUS	**Collection Date:**	1/6/2000 9:00:00 AM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	Martinez Initial-0107001110
Lab ID:	0001008-03A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 11:10:00 AM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	Decon Rinsate-0107001130
Lab ID:	0001008-04A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 11:30:00 AM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	Martinez Final-0107001240
Lab ID:	0001008-05A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 12:40:00 PM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	MW#4-0107001435
Lab ID:	0001008-06A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 2:35:00 PM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	MW#5-0107001515
Lab ID:	0001008-07A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 3:15:00 PM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				**Analyst: DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	MW#6-0107001605
Lab ID:	0001008-08A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 4:05:00 PM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	MW#7-0107001655
Lab ID:	0001008-09A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000 4:55:00 PM
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: *14-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001008	**Client Sample ID:**	GW-1
Lab ID:	0001008-10A **Matrix:** AQUEOUS	**Collection Date:**	1/7/2000
Project:	Leeper/Martinez	**COC Record:**	10372

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/10/2000
Toluene	ND	0.5		µg/L	1	1/10/2000
Ethylbenzene	ND	0.5		µg/L	1	1/10/2000
m,p-Xylene	ND	1		µg/L	1	1/10/2000
o-Xylene	ND	0.5		µg/L	1	1/10/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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10372

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

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LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: 1/6-7/00

Page: 1 of 1

Purchase Order No.: | Project No. LEEPER

SEND INVOICE TO

Name: JEFF BLAGG
Company: BLAGG ENGINEERING | Dept.:
Address: P.O. BOX 87
City, State, Zip: BLOOMFIELD NM 87413

REPORT RESULTS TO

Name | Title
Company
Mailing Address: SAME
City, State, Zip
Telephone No.: 632-1199 | Telefax No.: 632-3903

PROJECT LOCATION: LEEPER/MARTINEZ

SAMPLER'S SIGNATURE: J.C. Blagg / Nelson VL

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES.	Number of Containers	ANALYSIS REQUESTED: BTEX 8021	LAB ID
DECON RINSATE - 0106000840	1/6/00	0840	WATER	$HgCl_2$	2	X	000180P - 01
TRIP BLANK - 0106000900	"	0900	"	"	2	X	- 02
MARTINEZ INITIAL - 0107001110	1/7/00	1110	"	"	2	X	- 03
DECON RINSATE - 0107001130	"	1130	"	"	2	X	- 04
MARTINEZ FINAL - 0107001240	"	1240	"	"	2	X	- 05
MW #4 - 0107001435	"	1435	"	"	2	X	- 06
MW #5 - 0107001515	"	1515	"	"	2	X	- 07
MW #6 - 0107001605	"	1605	"	"	2	X	- 08
MW #7 - 0107001655	"	1655	"	"	2	X	- 09
GW-1	"	----	"	"	2	X	- 10

Relinquished by: J.C. Blagg	Date/Time 1/10/00 0810	Received by:	Date/Time 1/10/00 0810
Relinquished by: Nelson VL	Date/Time 1/10/00 0810	Received by:	Date/Time 1/10/00 0810
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush [X] 24-48 Hours [ ] 10 Working Days [ ] By Date [ ]

Authorized by: J.C. Blagg Date 1/10/00
(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_000110** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/10/2000** Prep Date:

Client ID: **0001008** Run ID: **GC-1_000110A** SeqNo: **22505**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0446	0.5									J
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0735	0.5									J

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

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0001005-10AMS	Batch ID: GC-1_000110	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/10/2000	Prep Date:
Client ID: 0001008	Run ID: GC-1_000110A			SeqNo: 22506	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	411.7	5	400	4.392	101.8%	80	116				
Ethylbenzene	407.9	5	400	0.529	101.8%	80	118				
m,p-Xylene	777.6	10	800	0	97.2%	77	116				
Methyl tert-Butyl Ether	422.1	10	400	0	105.5%	62	122				
o-Xylene	409.1	5	400	0	102.3%	83	117				
Toluene	410	5	400	3.528	101.6%	80	116				

Sample ID: 0001005-10AMSD	Batch ID: GC-1_000110	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/10/2000	Prep Date:
Client ID: 0001008	Run ID: GC-1_000110A			SeqNo: 22507	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	397	5	400	4.392	98.2%	80	116	411.7	3.6%	7	
Ethylbenzene	399.1	5	400	0.529	99.6%	80	118	407.9	2.2%	7	
m,p-Xylene	761.1	10	800	0	95.1%	77	116	777.6	2.1%	7	
Methyl tert-Butyl Ether	415.3	10	400	0	103.8%	62	122	422.1	1.6%	7	
o-Xylene	401.1	5	400	0	100.3%	83	117	409.1	2.0%	6	
Toluene	400.9	5	400	3.528	99.3%	80	116	410	2.2%	6	

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

On Site Technologies, LTD.

Date: *14-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_000110** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/10/2000** Prep Date:

Client ID: **0001008** Run ID: **GC-1_000110A** SeqNo: **22504**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.16	0.5	40	0.0446	102.8%	87	119				
Ethylbenzene	41.32	0.5	40	0	103.3%	89	117				
m,p-Xylene	78.99	1	80	0	98.7%	88	114				
Methyl tert-Butyl Ether	40.79	1	40	0	102.0%	69	129				
o-Xylene	41.4	0.5	40	0	103.5%	90	116				
Toluene	40.89	0.5	40	0.0735	102.0%	90	115				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: 14-Jan-00

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_0001** Batch ID: **GC-1_000110** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/10/2000** Prep Date:

Client ID: **0001008** Run ID: **GC-1_000110A** SeqNo: **22501**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.62	0.5	20	0	103.1%	85	115				
Ethylbenzene	21.06	0.5	20	0	105.3%	85	115				
m,p-Xylene	39.82	1	40	0	99.5%	85	115				
Methyl tert-Butyl Ether	20.89	1	20	0	104.5%	85	115				
o-Xylene	21.04	0.5	20	0	105.2%	85	115				
Toluene	20.57	0.5	20	0	102.9%	85	115				
1,4-Difluorobenzene	90.15	0	100	0	90.2%	80	120				
4-Bromochlorobenzene	89.33	0	100	0	89.3%	80	120				
Fluorobenzene	88.96	0	100	0	89.0%	80	120				

Sample ID: **CCV2 BTEX_0001** Batch ID: **GC-1_000110** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/10/2000** Prep Date:

Client ID: **0001008** Run ID: **GC-1_000110A** SeqNo: **22502**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.85	0.5	20	0	99.3%	85	115				
Ethylbenzene	20.18	0.5	20	0	100.9%	85	115				
m,p-Xylene	38.16	1	40	0	95.4%	85	115				
Methyl tert-Butyl Ether	20.86	1	20	0	104.3%	85	115				
o-Xylene	20.28	0.5	20	0	101.4%	85	115				
Toluene	19.84	0.5	20	0	99.2%	85	115				
1,4-Difluorobenzene	89.42	0	100	0	89.4%	80	120				
4-Bromochlorobenzene	89.77	0	100	0	89.8%	80	120				
Fluorobenzene	88.72	0	100	0	88.7%	80	120				

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

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV3 BTEX_0001** Batch ID: **GC-1_000110** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/10/2000** Prep Date:

Client ID: **0001008** Run ID: **GC-1_000110A** SeqNo: **22503**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.07	0.5	20	0	110.4%	85	115				
Ethylbenzene	22.55	0.5	20	0	112.8%	85	115				
m,p-Xylene	42.73	1	40	0	106.8%	85	115				
Methyl tert-Butyl Ether	22.83	1	20	0	114.2%	85	115				
o-Xylene	22.61	0.5	20	0	113.1%	85	115				
Toluene	22.24	0.5	20	0	111.2%	85	115				
1,4-Difluorobenzene	89.76	0	100	0	89.8%	80	120				
4-Bromochlorobenzene	90.35	0	100	0	90.3%	80	120				
Fluorobenzene	88.54	0	100	0	88.5%	80	120				

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

On Site Technologies, LTD.

Date: 14-Jan-00

CLIENT: Blagg Engineering
Work Order: 0001008
Project: Leeper/Martinez
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0001005-01A	90	89.7	89.4
0001005-02A	89.8	89.8	89.5
0001005-03A	90	89.4	89.6
0001005-04A	90.3	89.2	89.8
0001005-05A	89.5	89.4	89.6
0001005-06A	89.5	89.3	89.4
0001005-07A	89.8	89.6	89.4
0001005-08A	88	86.7	93.5
0001005-09A	87	87.2	93.1
0001005-10AMS	88.3	88.7	87.9
0001005-10AMSD	87.6	89	87.5
0001008-01A	89	90.6	88.8
0001008-02A	90	90.4	89.2
0001008-03A	90.2	89.6	89.5
0001008-04A	89.4	90.5	89.1
0001008-05A	90.3	89.5	89.2
0001008-06A	89.9	89.6	89.5
0001008-07A	89.7	89.9	89.5
0001008-08A	89.8	89.4	89.5
0001008-09A	90.4	88.7	89.7
0001008-10A	89.8	89.7	89.6
CCV1 BTEX_00010	90.2	89.3	89
CCV2 BTEX_00010	89.4	89.8	88.7
CCV3 BTEX_00010	89.8	90.3	88.5
LCS WATER	89.6	90.6	88.6
MB1	89.7	89.3	89.3

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	80-120
4BCBZ	=	4-Bromochlorobenzene	80-120
FLBZ	=	Fluorobenzene	80-120

*** Surrogate recovery outside acceptance limits**

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	Martinez Well 0107001110	Date Reported:	01-08-00
Laboratory Number:	G679	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.38	s.u.		
Conductivity @ 25° C	904	umhos/cm		
Total Dissolved Solids @ 180C	450	mg/L		
Total Dissolved Solids (Calc)	446	mg/L		
SAR	0.0	ratio		
Total Alkalinity as CaCO3	394	mg/L		
Total Hardness as CaCO3	392	mg/L		
Bicarbonate as HCO3	394	mg/L	6.46	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	<0.001	mg/L	0.00	meq/L
Chloride	22.4	mg/L	0.63	meq/L
Fluoride	0.63	mg/L	0.03	meq/L
Phosphate	1.3	mg/L	0.04	meq/L
Sulfate	31.9	mg/L	0.66	meq/L
Iron	<0.001	mg/L		
Calcium	136	mg/L	6.79	meq/L
Magnesium	12.7	mg/L	1.05	meq/L
Potassium	1.8	mg/L	0.05	meq/L
Sodium	<0.1	mg/L	0.00	meq/L
Cations			7.88	meq/L
Anions			7.83	meq/L
Cation/Anion Difference			0.63%	

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	Martinez Well 010700 1110	Date Reported:	01-08-00
Laboratory Number:	G679	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	Martinez Well 0107001240	Date Reported:	01-08-00
Laboratory Number:	G680	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.13	s.u.		
Conductivity @ 25° C	837	umhos/cm		
Total Dissolved Solids @ 180C	420	mg/L		
Total Dissolved Solids (Calc)	413	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	251	mg/L		
Total Hardness as CaCO3	308	mg/L		
Bicarbonate as HCO3	251	mg/L	4.11	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	<0.001	mg/L	0.00	meq/L
Chloride	14.4	mg/L	0.41	meq/L
Fluoride	0.74	mg/L	0.04	meq/L
Phosphate	0.9	mg/L	0.03	meq/L
Sulfate	113	mg/L	2.35	meq/L
Iron	0.350	mg/L		
Calcium	97.6	mg/L	4.87	meq/L
Magnesium	15.6	mg/L	1.28	meq/L
Potassium	1.7	mg/L	0.04	meq/L
Sodium	17.1	mg/L	0.74	meq/L
Cations			6.94	meq/L
Anions			6.94	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. Water And Waste Water", 18th ed., 1992.

Comments: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	Martinez Well 010700 1240	Date Reported:	01-08-00
Laboratory Number:	G680	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.4**	mg/L
Ferrous Iron	**0.13**	mg/L

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: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 4 0107001435	Date Reported:	01-08-00
Laboratory Number:	G681	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.08**	s.u.		
Conductivity @ 25° C	**905**	umhos/cm		
Total Dissolved Solids @ 180C	**450**	mg/L		
Total Dissolved Solids (Calc)	**440**	mg/L		
SAR	**0.5**	ratio		
Total Alkalinity as CaCO3	**286**	mg/L		
Total Hardness as CaCO3	**326**	mg/L		
Bicarbonate as HCO3	**286**	mg/L	4.69	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	**<0.001**	mg/L	0.00	meq/L
Chloride	**17.1**	mg/L	0.48	meq/L
Fluoride	**0.72**	mg/L	0.04	meq/L
Phosphate	**0.5**	mg/L	0.02	meq/L
Sulfate	**106**	mg/L	2.21	meq/L
Iron	**<0.001**	mg/L		
Calcium	**101**	mg/L	5.04	meq/L
Magnesium	**16.7**	mg/L	1.37	meq/L
Potassium	**1.8**	mg/L	0.05	meq/L
Sodium	**22.3**	mg/L	0.97	meq/L
Cations			7.43	meq/L
Anions			7.43	meq/L
Cation/Anion Difference			**0.00%**	

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: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 4 010700 1435	Date Reported:	01-08-00
Laboratory Number:	G681	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.3**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 5 0107001515	Date Reported:	01-08-00
Laboratory Number:	G682	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.06**	s.u.		
Conductivity @ 25° C	**885**	umhos/cm		
Total Dissolved Solids @ 180C	**440**	mg/L		
Total Dissolved Solids (Calc)	**433**	mg/L		
SAR	**0.5**	ratio		
Total Alkalinity as CaCO3	**288**	mg/L		
Total Hardness as CaCO3	**324**	mg/L		
Bicarbonate as HCO3	**288**	mg/L	4.72	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	**<0.001**	mg/L	0.00	meq/L
Chloride	**17.2**	mg/L	0.49	meq/L
Fluoride	**0.74**	mg/L	0.04	meq/L
Phosphate	**0.5**	mg/L	0.02	meq/L
Sulfate	**100**	mg/L	2.08	meq/L
Iron	**<0.001**	mg/L		
Calcium	**102**	mg/L	5.09	meq/L
Magnesium	**16.6**	mg/L	1.37	meq/L
Potassium	**1.8**	mg/L	0.05	meq/L
Sodium	**19.3**	mg/L	0.84	meq/L
Cations			7.34	meq/L
Anions			7.34	meq/L
Cation/Anion Difference			**0.01%**	

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: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 5 010700 1515	Date Reported:	01-08-00
Laboratory Number:	G682	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.3**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 6 0107001605	Date Reported:	01-08-00
Laboratory Number:	G683	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.09	s.u.		
Conductivity @ 25° C	904	umhos/cm		
Total Dissolved Solids @ 180C	450	mg/L		
Total Dissolved Solids (Calc)	451	mg/L		
SAR	0.6	ratio		
Total Alkalinity as CaCO3	264	mg/L		
Total Hardness as CaCO3	320	mg/L		
Bicarbonate as HCO3	264	mg/L	4.33	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	<0.001	mg/L	0.00	meq/L
Chloride	17.0	mg/L	0.48	meq/L
Fluoride	0.88	mg/L	0.05	meq/L
Phosphate	1.1	mg/L	0.03	meq/L
Sulfate	128	mg/L	2.66	meq/L
Iron	<0.001	mg/L		
Calcium	99.2	mg/L	4.95	meq/L
Magnesium	17.6	mg/L	1.45	meq/L
Potassium	1.8	mg/L	0.05	meq/L
Sodium	25.5	mg/L	1.11	meq/L
Cations			7.55	meq/L
Anions			7.55	meq/L
Cation/Anion Difference			0.01%	

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: Leeper - Martinez.

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 6 010700 1605	Date Reported:	01-08-00
Laboratory Number:	G683	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 7 010700 1655	Date Reported:	01-08-00
Laboratory Number:	G684	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.25**	s.u.		
Conductivity @ 25° C	**912**	umhos/cm		
Total Dissolved Solids @ 180C	**455**	mg/L		
Total Dissolved Solids (Calc)	**452**	mg/L		
SAR	**0.5**	ratio		
Total Alkalinity as CaCO3	**262**	mg/L		
Total Hardness as CaCO3	**328**	mg/L		
Bicarbonate as HCO3	**262**	mg/L	4.29	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	**<0.001**	mg/L	0.00	meq/L
Chloride	**15.0**	mg/L	0.42	meq/L
Fluoride	**0.86**	mg/L	0.05	meq/L
Phosphate	**0.6**	mg/L	0.02	meq/L
Sulfate	**133**	mg/L	2.77	meq/L
Iron	**0.001**	mg/L		
Calcium	**102**	mg/L	5.09	meq/L
Magnesium	**17.6**	mg/L	1.45	meq/L
Potassium	**1.8**	mg/L	0.05	meq/L
Sodium	**22.2**	mg/L	0.97	meq/L
Cations			7.55	meq/L
Anions			7.55	meq/L
Cation/Anion Difference			**0.01%**	

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW - 7 010700 1655	Date Reported:	01-08-00
Laboratory Number:	G684	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	GW - 1	Date Reported:	01-08-00
Laboratory Number:	G685	Date Sampled:	01-07-00
Chain of Custody:	7003	Date Received:	01-08-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.07	s.u.		
Conductivity @ 25° C	890	umhos/cm		
Total Dissolved Solids @ 180C	444	mg/L		
Total Dissolved Solids (Calc)	441	mg/L		
SAR	0.5	ratio		
Total Alkalinity as CaCO3	290	mg/L		
Total Hardness as CaCO3	324	mg/L		
Bicarbonate as HCO3	290	mg/L	4.75	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	<0.001	mg/L	0.00	meq/L
Chloride	17.2	mg/L	0.49	meq/L
Fluoride	0.74	mg/L	0.04	meq/L
Phosphate	0.5	mg/L	0.02	meq/L
Sulfate	104	mg/L	2.17	meq/L
Iron	<0.001	mg/L		
Calcium	102	mg/L	5.09	meq/L
Magnesium	16.6	mg/L	1.37	meq/L
Potassium	1.8	mg/L	0.05	meq/L
Sodium	22.0	mg/L	0.96	meq/L
Cations			7.46	meq/L
Anions			7.46	meq/L
Cation/Anion Difference			0.01%	

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: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	GW - 1	Date Reported:	01-08-00
Laboratory Number:	G685	Date Sampled:	01-07-00
Sample Matrix:	Water	Date Received:	01-08-00
Preservative:	Cool	Date Analyzed:	01-08-00
Condition:	Cool & Intact	Chain of Custody:	7003

Parameter	Analytical Result	Units
Manganese	**0.3**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper - Martinez.**

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CHAIN OF CUSTODY RECORD

7003

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/AMOCO	LEEPER - MARTINEZ	

Sampler:	Client No.
NELSON VELEZ	403410

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	MAJOR IONS	TOTAL FOR ION	MANG ANGLE				Remarks
MARTINEZ WELL 0107001110	1/7/00	1110	G679	WATER	1	X	X	X				
MARTINEZ Well 0107001240	"	1240	G680	"	1	X	X	X				
MW-4 0107001435	"	1435	G681	"	1	X	X	X				
MW-5 0107001515	"	1515	G682	"	1	X	X	X				
MW-6 0107001605	"	1605	G683	"	1	X	X	X				
MW-7 0107001655	"	1655	G684	"	1	X	X	X				
GW-1	"	----	G685	"	1	X	X	X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Nelson Velez	1/7/00	1813	J. C. Blagg	1/7/00	1813
Jeff Blagg	1/8/00	0700	Dena P. Ojeen	1/8/00	0705
Relinquished by: (Signature)			Received by: (Signature)		

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Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 2 - 011800 1315	Date Reported:	01-19-00
Laboratory Number:	G700	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	6.87	s.u.		
Conductivity @ 25° C	1,100	umhos/cm		
Total Dissolved Solids @ 180C	550	mg/L		
Total Dissolved Solids (Calc)	549	mg/L		
SAR	0.0	ratio		
Total Alkalinity as CaCO3	523	mg/L		
Total Hardness as CaCO3	496	mg/L		
Bicarbonate as HCO3	523	mg/L	8.57	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	1.6	mg/L	0.03	meq/L
Nitrite Nitrogen	<0.001	mg/L	0.00	meq/L
Chloride	42.5	mg/L	1.20	meq/L
Fluoride	0.81	mg/L	0.04	meq/L
Phosphate	4.2	mg/L	0.13	meq/L
Sulfate	<0.1	mg/L	0.00	meq/L
Iron	23.5	mg/L		
Calcium	139	mg/L	6.94	meq/L
Magnesium	36.1	mg/L	2.97	meq/L
Potassium	7.5	mg/L	0.19	meq/L
Sodium	<0.1	mg/L	0.00	meq/L
Cations			10.10	meq/L
Anions			9.97	meq/L
Cation/Anion Difference			1.30%	

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 2 - 011800 1315	Date Reported:	01-21-00
Laboratory Number:	G700	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**0.1**	mg/L
Ferrous Iron	**0.02**	mg/L

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 6 - 011800 0940	Date Reported:	01-19-00
Laboratory Number:	G701	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Analyzed:	01-19-00
Preservative:	Cool	Date Digested:	01-19-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**0.059**	**0.001**
Barium	**0.066**	**0.001**
Cadmium	**0.025**	**0.001**
Chromium	**0.016**	**0.001**
Lead	**0.039**	**0.001**
Mercury	**0.009**	**0.001**
Selenium	**0.008**	**0.001**
Silver	**0.003**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B; Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 8 - 011800 1017	Date Reported:	01-19-00
Laboratory Number:	G702	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.15	s.u.		
Conductivity @ 25° C	845	umhos/cm		
Total Dissolved Solids @ 180C	420	mg/L		
Total Dissolved Solids (Calc)	413	mg/L		
SAR	0.2	ratio		
Total Alkalinity as CaCO3	267	mg/L		
Total Hardness as CaCO3	324	mg/L		
Bicarbonate as HCO3	267	mg/L	4.38	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	0.005	mg/L	0.00	meq/L
Chloride	9.8	mg/L	0.28	meq/L
Fluoride	0.89	mg/L	0.05	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	109	mg/L	2.27	meq/L
Iron	0.042	mg/L		
Calcium	99.6	mg/L	4.97	meq/L
Magnesium	18.3	mg/L	1.51	meq/L
Potassium	5.5	mg/L	0.14	meq/L
Sodium	8.1	mg/L	0.35	meq/L
Cations			6.97	meq/L
Anions			6.97	meq/L
Cation/Anion Difference			0.01%	

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 8 - 011800 1017	Date Reported:	01-21-00
Laboratory Number:	G702	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	<0.1	mg/L
Ferrous Iron	<0.01	mg/L

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 9 - 011800 1052	Date Reported:	01-19-00
Laboratory Number:	G703	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.18	s.u.		
Conductivity @ 25° C	875	umhos/cm		
Total Dissolved Solids @ 180C	435	mg/L		
Total Dissolved Solids (Calc)	427	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	258	mg/L		
Total Hardness as CaCO3	317	mg/L		
Bicarbonate as HCO3	258	mg/L	4.23	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	0.011	mg/L	0.00	meq/L
Chloride	12.1	mg/L	0.34	meq/L
Fluoride	0.92	mg/L	0.05	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	121	mg/L	2.52	meq/L
Iron	<0.001	mg/L		
Calcium	100	mg/L	4.99	meq/L
Magnesium	16.4	mg/L	1.35	meq/L
Potassium	3.2	mg/L	0.08	meq/L
Sodium	16.5	mg/L	0.72	meq/L
Cations			7.14	meq/L
Anions			7.14	meq/L
Cation/Anion Difference			0.03%	

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

Comments: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 9 - 011800 1052	Date Reported:	01-21-00
Laboratory Number:	G703	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**<0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 10 - 011800 1304	Date Reported:	01-19-00
Laboratory Number:	G704	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.18	s.u.		
Conductivity @ 25° C	995	umhos/cm		
Total Dissolved Solids @ 180C	495	mg/L		
Total Dissolved Solids (Calc)	489	mg/L		
SAR	0.6	ratio		
Total Alkalinity as CaCO3	226	mg/L		
Total Hardness as CaCO3	344	mg/L		
Bicarbonate as HCO3	226	mg/L	3.70	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	0.009	mg/L	0.00	meq/L
Chloride	17.9	mg/L	0.50	meq/L
Fluoride	0.84	mg/L	0.04	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	180	mg/L	3.74	meq/L
Iron	0.201	mg/L		
Calcium	109	mg/L	5.43	meq/L
Magnesium	17.6	mg/L	1.45	meq/L
Potassium	3.3	mg/L	0.08	meq/L
Sodium	23.7	mg/L	1.03	meq/L
Cations			7.99	meq/L
Anions			7.99	meq/L
Cation/Anion Difference			0.01%	

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 10 - 011800 1304	Date Reported:	01-21-00
Laboratory Number:	G704	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**<0.1**	mg/L
Ferrous Iron	**0.01**	mg/L

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 11 - 011800 1237	Date Reported:	01-19-00
Laboratory Number:	G705	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	7.15	s.u.		
Conductivity @ 25° C	905	umhos/cm		
Total Dissolved Solids @ 180C	450	mg/L		
Total Dissolved Solids (Calc)	441	mg/L		
SAR	0.4	ratio		
Total Alkalinity as CaCO3	250	mg/L		
Total Hardness as CaCO3	329	mg/L		
Bicarbonate as HCO3	250	mg/L	4.10	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	0.007	mg/L	0.00	meq/L
Chloride	12.5	mg/L	0.35	meq/L
Fluoride	0.91	mg/L	0.05	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	137	mg/L	2.84	meq/L
Iron	<0.001	mg/L		
Calcium	103	mg/L	5.13	meq/L
Magnesium	17.4	mg/L	1.43	meq/L
Potassium	3.5	mg/L	0.09	meq/L
Sodium	15.9	mg/L	0.69	meq/L
Cations			7.34	meq/L
Anions			7.34	meq/L
Cation/Anion Difference			0.01%	

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 11 - 011800 1237	Date Reported:	01-21-00
Laboratory Number:	G705	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**<0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper / Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 12 - 011800 1159	Date Reported:	01-19-00
Laboratory Number:	G706	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.22**	s.u.		
Conductivity @ 25° C	**865**	umhos/cm		
Total Dissolved Solids @ 180C	**430**	mg/L		
Total Dissolved Solids (Calc)	**426**	mg/L		
SAR	**0.3**	ratio		
Total Alkalinity as CaCO3	**294**	mg/L		
Total Hardness as CaCO3	**335**	mg/L		
Bicarbonate as HCO3	**294**	mg/L	4.82	meq/L
Carbonate as CO3	**<0.1**	mg/L	0.00	meq/L
Hydroxide as OH	**<0.1**	mg/L	0.00	meq/L
Nitrate Nitrogen	**<0.1**	mg/L	0.00	meq/L
Nitrite Nitrogen	**0.005**	mg/L	0.00	meq/L
Chloride	**8.5**	mg/L	0.24	meq/L
Fluoride	**0.89**	mg/L	0.05	meq/L
Phosphate	**0.1**	mg/L	0.00	meq/L
Sulfate	**104**	mg/L	2.17	meq/L
Iron	**0.002**	mg/L		
Calcium	**96.0**	mg/L	4.79	meq/L
Magnesium	**23.2**	mg/L	1.91	meq/L
Potassium	**3.6**	mg/L	0.09	meq/L
Sodium	**11.1**	mg/L	0.48	meq/L
Cations			7.27	meq/L
Anions			7.27	meq/L
Cation/Anion Difference			**0.01%**	

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: **Leeper / Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 12 - 011800 1159	Date Reported:	01-21-00
Laboratory Number:	G706	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**<0.1**	mg/L
Ferrous Iron	**<0.01**	mg/L

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: **Leeper / Martinez.**

Analyst

Review

5796 U.S. Highway 64 • Farmington, NM 87401 • Tel 505 • 632 • 0615 • Fax 505 • 632 • 1865

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

CATION / ANION ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 13 - 011800 1124	Date Reported:	01-19-00
Laboratory Number:	G707	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	01-19-00
Condition:	Cool & Intact		

Parameter	Analytical Result	Units		Units
pH	**7.16**	s.u.		
Conductivity @ 25° C	**805**	umhos/cm		
Total Dissolved Solids @ 180C	**400**	mg/L		
Total Dissolved Solids (Calc)	**395**	mg/L		
SAR	**0.0**	ratio		
Total Alkalinity as CaCO3	**343**	mg/L		
Total Hardness as CaCO3	**342**	mg/L		
Bicarbonate as HCO3	**343**	mg/L	5.62	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	**0.005**	mg/L	0.00	meq/L
Chloride	**12.6**	mg/L	0.36	meq/L
Fluoride	**0.89**	mg/L	0.05	meq/L
Phosphate	**<0.1**	mg/L	0.00	meq/L
Sulfate	**45.0**	mg/L	0.94	meq/L
Iron	**0.165**	mg/L		
Calcium	**103**	mg/L	5.15	meq/L
Magnesium	**20.5**	mg/L	1.69	meq/L
Potassium	**4.6**	mg/L	0.12	meq/L
Sodium	**<0.1**	mg/L	0.00	meq/L
Cations			6.96	meq/L
Anions			6.96	meq/L
Cation/Anion Difference			**0.09%**	

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: **Leeper / Martinez.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

Water Analysis

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 13 - 011800 1124	Date Reported:	01-21-00
Laboratory Number:	G707	Date Sampled:	01-18-00
Sample Matrix:	Water	Date Received:	01-18-00
Preservative:	Cool	Date Analyzed:	01-21-00
Condition:	Cool & Intact	Chain of Custody:	7008

Parameter	Analytical Result	Units
Manganese	**<0.1**	mg/L
Ferrous Iron	**0.03**	mg/L

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: **Leeper / Martinez.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 13 - 011800 1124	Date Reported:	01-19-00
Laboratory Number:	G707	Date Sampled:	01-18-00
Chain of Custody:	7008	Date Received:	01-18-00
Sample Matrix:	Water	Date Analyzed:	01-19-00
Preservative:	Cool	Date Digested:	01-19-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**0.058**	**0.001**
Barium	**0.107**	**0.001**
Cadmium	**0.030**	**0.001**
Chromium	**0.021**	**0.001**
Lead	**0.041**	**0.001**
Mercury	**0.005**	**0.001**
Selenium	**0.006**	**0.001**
Silver	**0.004**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper / Martinez.**

Analyst

Review

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LOG NO: C0-01446
Received: 20 JAN 00
Reported: 03 FEB 00

Ms. Kim McNeill
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: ENV-BLAGG/001038
Sampled By: Client
Code: 08210023

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , LIQUID SAMPLES	DATE/ TIME SAMPLED
01446-2	001038-02 MW #13	01-18-00/11:24

PARAMETER	01446-2
Polynuclear Aromatic Hydrocarbons (8310)	
Acenaphthene, ug/l	<1.0
Acenaphthylene, ug/l	1.0
Anthracene, ug/l	<1.0
Benzo(a)anthracene, ug/l	<1.0
Benzo(a)pyrene, ug/l	<1.0
Benzo(b)fluoranthene, ug/l	1.1
Benzo(g,h,i)perylene, ug/l	1.5
Benzo(k)fluoranthene, ug/l	1.7
Chrysene, ug/l	<1.0
Dibenzo(a,h)anthracene, ug/l	5.4
Fluoranthene, ug/l	<1.0
Fluorene, ug/l	<1.0
Indeno(1,2,3-cd)pyrene, ug/l	<1.0
Naphthalene, ug/l	<1.0
Phenanthrene, ug/l	<1.0
Pyrene, ug/l	<1.0
1-Methylnaphthalene, ug/l	<1.0
2-Methylnaphthalene, ug/l	<1.0
Surrogate - 2-Chloroanthracene	102 %
Analyst	SB
Prep Date	01.25.00
Analysis Date	01.29.00
Batch ID	PAW385
Prep Method	3520
Dilution Factor	1

CHAIN OF CUSTODY RECORD

7008

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/AMOCO	LEEPER/MARTINEZ	

Sampler:	Client No.
J. C. Blagg	403410

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Mn + Fe Only	8 RCRA METALS	PAH 8310				Remarks
MW2-011800 1315	1/18/00	1315	G700	WATER	1	X						
MW6-011800 0940	"	0940	G701	"	1		X					
MW8-011800 1017	"	1017	G702	"	1	X						
MW9-011800 1052	"	1052	G703	"	1	X						
MW10-011800 1304	"	1304	G704	"	1	X						
MW11-011800 1237	"	1237	G705	"	1	X						
MW12-011800 1159	"	1159	G706	"	1	X						
MW13-011800 1124	"	1124	G707	"	4	X	X	X				

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	1/18/00	1508	[signature]	1/19/00	15:09
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		

Pinnacle Laboratories Inc.

CHAIN OF CUSTODY

DATE: 1-19-00 PAGE: 1 OF 1

PLI Accession #: 001038

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: Dennis Aieman

COMPANY: Enviratech

ADDRESS: 5796 US Hwy 64
Farmington, NM 87401

PHONE: (505) 632-0615

FAX: (505) 632-1865

BILL TO: Same As Above

COMPANY:

ADDRESS:

SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
MW13-011800 1124/6707	1/18/00	11:24	water	02

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline) MTBE	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081/8082)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310 8270-SIMS)	General Chemistry:	Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:	NUMBER OF CONTAINERS
																	✓							2

PROJECT INFORMATION

PROJ. NO.: 403410

PROJ. NAME: Blagg/Amoco

P.O. NO.: 82501

SHIPPED VIA: Greyhound

SAMPLE RECEIPT

NO. CONTAINERS	4
CUSTODY SEALS	Y/N/(NA)
RECEIVED INTACT	YES
BLUE ICE/ICE	ICE

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Time:	Signature: Time:
Printed Name: Date:	Printed Name: Date:
Company: See reverse side (Force Majeure)	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 1625
Printed Name: Date:	Printed Name: Francine Tonvio Date: 1/19/00
Company:	Pinnacle Laboratories Inc.

Pinnacle Laboratories, Inc. **Interlab Chain of Custody** Date: 1/19 Page: 1 of 1

Network Project Manager: Kimberly D. McNeill

Pinnacle Laboratories, Inc.
2709-D Pan American Freeway, NE
Albuquerque, New Mexico 87107
(505) 344-3777 Fax (505) 344-4413

C001446

SAMPLE ID	DATE	TIME	MATRIX	LAB ID	Metals (8) RCRA	RCRA TCLP METALS	Metals-13 PP List	Metals-TAL		TOX	TOC	Gen Chemistry		Oil and Grease	Volatile Organics GC/MS (8260)	BOD	COD	PESTICIDES/PCB (608/8080)	8270 BY GC/MS	PNA (8310)	8240 (TCLP 1311) ZHE	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	URANIUM	RADIUM 226+228	Gross Alpha/Beta	TO-14	NUMBER OF CONTAINERS
001038	1/18		AQ																									
-02	↓	1124	↓																	X								

ANALYSIS REQUEST

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:	
PROJECT #:	001038	Total Number of Containers		PENSACOLA - STL-FL	X
PROJ. NAME:	ENV	Chain of Custody Seals		PORTLAND - ESL-OR	
QC LEVEL:	(STD) IV	Received Intact?		STL - CT	
QC REQUIRED:	(MS) MSD BLANK	Received Good Cond./Cold		STL- NEW JERSEY	
TAT:	(STANDARD) RUSH!!	LAB NUMBER:		N. CREEK	
				BARRINGER	
DUE DATE:	1/31	COMMENTS:		SEQUOIA	
RUSH SURCHARGE:	—				
CLIENT DISCOUNT:	—				
SPECIAL CERTIFICATION REQUIRED:	YES (NO)				

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Francine Torvio Time: 1700	Signature: Time:
Printed Name: Francine Torvio Date: 1/19/00	Printed Name: Date:
Company: Pinnacle Laboratories, Inc.	Company
RECEIVED BY: 1.	**RECEIVED BY: 2**
Signature: Linda L. Kitt Time: 0950	Signature: Time:
Printed Name: Linda L. Kitt Date: 1/20/00	Printed Name: Date:
Company: STL FL	Company

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-19-TM QA/QC	Date Reported:	01-19-00
Laboratory Number:	G701	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	01-19-00
Condition:	N/A	Date Digested:	01-19-00

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	0.059	0.059	0.0%	0% - 30%
Barium	ND	ND	0.001	0.066	0.065	1.5%	0% - 30%
Cadmium	ND	ND	0.001	0.025	0.025	0.0%	0% - 30%
Chromium	ND	ND	0.001	0.016	0.016	0.0%	0% - 30%
Lead	ND	ND	0.001	0.039	0.039	0.0%	0% - 30%
Mercury	ND	ND	0.001	0.009	0.009	0.0%	0% - 30%
Selenium	ND	ND	0.001	0.008	0.008	0.0%	0% - 30%
Silver	ND	ND	0.001	0.003	0.003	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	1.00	0.059	1.06	100%	80% - 120%
Barium	1.00	0.066	1.07	100%	80% - 120%
Cadmium	0.500	0.025	0.524	100%	80% - 120%
Chromium	1.00	0.016	1.02	100%	80% - 120%
Lead	1.00	0.039	1.04	100%	80% - 120%
Mercury	0.500	0.009	0.508	100%	80% - 120%
Selenium	0.500	0.008	0.507	100%	80% - 120%
Silver	1.00	0.003	1.00	100%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples G701 and G707.**

Analyst

Review

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LOG NO: C0-01446
Received: 20 JAN 00
Reported: 03 FEB 00

Ms. Kim McNeill
Pinnacle Laboratories
2709-D Pan American Freeway Northeast
Albuquerque, NM 87107

Project: ENV-BLAGG/001038
Sampled By: Client
Code: 08210023

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , QC REPORT FOR LIQUID SAMPLES	DATE/ TIME SAMPLED
01446-3	Method Blank	
01446-4	Lab Control Standard % Recovery	
01446-5	Matrix Spike % Recovery	
01446-6	Matrix Spike Duplicate % Recovery	

PARAMETER	01446-3	01446-4	01446-5	01446-6
Polynuclear Aromatic Hydrocarbons (8310)				
Acenaphthene, ug/l	<1.0	---	---	---
Acenaphthylene, ug/l	<1.0	92 %	96 %	85 %
Anthracene, ug/l	<1.0	---	---	---
Benzo(a)anthracene, ug/l	<1.0	---	---	---
Benzo(a)pyrene, ug/l	<1.0	---	---	---
Benzo(b)fluoranthene, ug/l	<1.0	---	---	---
Benzo(g,h,i)perylene, ug/l	<1.0	---	---	---
Benzo(k)fluoranthene, ug/l	<1.0	109 %	111 %	107 %
Chrysene, ug/l	<1.0	107 %	109 %	109 %
Dibenzo(a,h)anthracene, ug/l	<1.0	---	---	---
Fluoranthene, ug/l	<1.0	---	---	---
Fluorene, ug/l	<1.0	---	---	---
Indeno(1,2,3-cd)pyrene, ug/l	<1.0	---	---	---
Naphthalene, ug/l	<1.0	---	---	---
Phenanthrene, ug/l	<1.0	98 %	107 %	91 %
Pyrene, ug/l	<1.0	103 %	126 %	118 %
1-Methylnaphthalene, ug/l	<1.0	---	---	---
2-Methylnaphthalene, ug/l	<1.0	---	---	---
Surrogate - 2-Chloroanthracene	93 %	106 %	107 %	104 %
Analyst	SB	SB	SB	SB
Prep Date	01.25.00	01.25.00	01.25.00	01.25.00
Analysis Date	01.29.00	01.29.00	01.29.00	01.29.00
Batch ID	PAW385	PAW385	PAW385	PAW385
Prep Method	3520	3520	3520	3520
Dilution Factor	1	1	1	1

Lance Larson, Project Manager

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-2; 0118001315
Lab ID:	0001021-01A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 1:15:00 PM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	140	10		µg/L	20	1/20/2000
Toluene	30	10		µg/L	20	1/20/2000
Ethylbenzene	120	10		µg/L	20	1/20/2000
m,p-Xylene	3200	20		µg/L	20	1/20/2000
o-Xylene	170	10		µg/L	20	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-8; 0118001017
Lab ID:	0001021-02A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 10:17:00 AM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				**Analyst: DM**
Benzene	ND	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	ND	0.5		µg/L	1	1/20/2000
m,p-Xylene	ND	1		µg/L	1	1/20/2000
o-Xylene	ND	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-9; 0118001052
Lab ID:	0001021-03A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 10:52:00 AM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	ND	0.5		µg/L	1	1/20/2000
m,p-Xylene	ND	1		µg/L	1	1/20/2000
o-Xylene	ND	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr. - Surrogate

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-10; 0118001304
Lab ID:	0001021-04A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 1:04:00 PM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				**Analyst: DM**
Benzene	9.6	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	12	0.5		µg/L	1	1/20/2000
m,p-Xylene	77	1		µg/L	1	1/20/2000
o-Xylene	0.7	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-11; 0118001237
Lab ID:	0001021-05A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 12:37:00 PM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	31	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	3.3	0.5		µg/L	1	1/20/2000
m,p-Xylene	49	1		µg/L	1	1/20/2000
o-Xylene	14	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-12; 0118001159
Lab ID:	0001021-06A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 11:59:00 AM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	ND	0.5		µg/L	1	1/20/2000
m,p-Xylene	ND	1		µg/L	1	1/20/2000
o-Xylene	ND	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *24-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper/Martinez
Work Order:	0001021	**Client Sample ID:**	MW-13: 0118001124
Lab ID:	0001021-07A **Matrix:** AQUEOUS	**Collection Date:**	1/18/2000 11:24:00 AM
Project:	Leeper/Martinez	**COC Record:**	10348

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	2.6	0.5		µg/L	1	1/20/2000
Toluene	ND	0.5		µg/L	1	1/20/2000
Ethylbenzene	2.5	0.5		µg/L	1	1/20/2000
m,p-Xylene	18	1		µg/L	1	1/20/2000
o-Xylene	1	0.5		µg/L	1	1/20/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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CHAIN OF CUSTODY RECORD

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Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
PROJECT LOCATION:		Number of Containers	ANALYSIS REQUESTED
SAMPLER'S SIGNATURE:			

SAMPLE IDENTIFICATION	SAMPLE DATE	TIME	MATRIX	PRES	Number of Containers	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐	

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *24-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** *Batch ID:* **GC-1_000120** *Test Code:* **SW8021B** *Units:* **µg/L** *Analysis Date* **1/20/2000** *Prep Date:*

Client ID: **0001021** Run ID: **GC-1_000120A** SeqNo: **22986**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.1572	0.5									J
Ethylbenzene	.3691	0.5									J
m,p-Xylene	.473	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.2471	0.5									J
Toluene	.3683	0.5									J

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

On Site Technologies, LTD.

Date: *24-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0001020-02AMS	Batch ID: GC-1_000120	Test Code: SW8021B	Units: µg/L	Analysis Date 1/20/2000	Prep Date:
Client ID: 0001021	Run ID: GC-1_000120A			SeqNo: 22987	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	11540	50	4000	7821	93.1%	73	126				
Ethylbenzene	4396	50	4000	502.4	97.4%	88	113				
m,p-Xylene	12890	100	8000	5458	92.9%	83	112				
Methyl tert-Butyl Ether	4403	100	4000	510.9	97.3%	81	125				
o-Xylene	6117	50	4000	2263	96.4%	93	110				
Toluene	10610	50	4000	6848	94.1%	76	126				

Sample ID: 0001020-02AMSD	Batch ID: GC-1_000120	Test Code: SW8021B	Units: µg/L	Analysis Date 1/20/2000	Prep Date:
Client ID: 0001021	Run ID: GC-1_000120A			SeqNo: 22988	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	11670	50	4000	7821	96.3%	73	126	11540	1.1%	6	
Ethylbenzene	4452	50	4000	502.4	98.7%	88	113	4396	1.2%	5	
m,p-Xylene	13040	100	8000	5458	94.8%	83	112	12890	1.2%	7	
Methyl tert-Butyl Ether	4551	100	4000	510.9	101.0%	81	125	4403	3.3%	9	
o-Xylene	6209	50	4000	2263	98.7%	93	110	6117	1.5%	6	
Toluene	10750	50	4000	6848	97.5%	76	126	10610	1.2%	6	

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

On Site Technologies, LTD.

Date: *24-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_000120** Test Code: **SW8021B** Units: **µg/L** Analysis Date **1/20/2000** Prep Date:

Client ID: **0001021** Run ID: **GC-1_000120A** SeqNo: **22985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.01	0.5	40	0.1572	102.1%	89	112				
Ethylbenzene	41.45	0.5	40	0.4517	102.5%	93	112				
m,p-Xylene	79.34	1	80	0.543	98.5%	88	108				
Methyl tert-Butyl Ether	41.58	1	40	0	103.9%	87	115				
o-Xylene	41.54	0.5	40	0.4209	102.8%	93	112				
Toluene	41.42	0.5	40	0.3683	102.6%	92	111				

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

On Site Technologies, LTD.

Date: *24-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0001 **Batch ID:** GC-1_000120 **Test Code:** SW8021B **Units:** µg/L **Analysis Date** 1/20/2000 **Prep Date:**
Client ID: 0001021 **Run ID:** GC-1_000120A **SeqNo:** 22981

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.48	0.5	20	0	102.4%	85	115				
Ethylbenzene	21.17	0.5	20	0	105.9%	85	115				
m,p-Xylene	40.17	1	40	0	100.4%	85	115				
Methyl tert-Butyl Ether	21.02	1	20	0	105.1%	85	115				
o-Xylene	21.28	0.5	20	0	106.4%	85	115				
Toluene	21.2	0.5	20	0	106.0%	85	115				
1,4-Difluorobenzene	89.26	0	100	0	89.3%	80	105				
4-Bromochlorobenzene	84.36	0	100	0	84.4%	78	108				
Fluorobenzene	88.71	0	100	0	88.7%	78	108				

Sample ID: CCV2 BTEX_0001 **Batch ID:** GC-1_000120 **Test Code:** SW8021B **Units:** µg/L **Analysis Date** 1/20/2000 **Prep Date:**
Client ID: 0001021 **Run ID:** GC-1_000120A **SeqNo:** 22982

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.14	0.5	20	0	100.7%	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	21.37	1	20	0	106.9%	85	115				
o-Xylene	21.07	0.5	20	0	105.3%	85	115				
Toluene	20.8	0.5	20	0	104.0%	85	115				
1,4-Difluorobenzene	89.65	0	100	0	89.6%	80	105				
4-Bromochlorobenzene	88.62	0	100	0	88.8%	78	108				
Fluorobenzene	88.71	0	100	0	88.7%	78	108				

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

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0001 Batch ID: GC-1_000120 Test Code: SW8021B Units: µg/L Analysis Date 1/20/2000 Prep Date:
Client ID: 0001021 Run ID: GC-1_000120A SeqNo: 22983

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.38	0.5	20	0	101.9%	85	115				
Ethylbenzene	20.73	0.5	20	0	103.7%	85	115				
m,p-Xylene	39.44	1	40	0	98.6%	85	115				
Methyl tert-Butyl Ether	20.91	1	20	0	104.6%	85	115				
o-Xylene	20.92	0.5	20	0	104.6%	85	115				
Toluene	20.82	0.5	20	0	104.1%	85	115				
1,4-Difluorobenzene	89.58	0	100	0	89.6%	80	105				
4-Bromochlorobenzene	87.76	0	100	0	87.8%	78	108				
Fluorobenzene	88.33	0	100	0	88.3%	78	108				

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

On Site Technologies, LTD.

Date: 24-Jan-00

CLIENT: Blagg Engineering
Work Order: 0001021
Project: Leeper/Martinez
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0001020-01A	90.5	87.4	89
0001020-02A	87.8	88.2	87
0001020-02AMS	87.1	88.9	86.5
0001020-02AMSD	87.1	88.2	86.8
0001020-03A	89.7	87	88.3
0001020-04A	89.4	86.6	88.5
0001021-01A	87	85.1	87.9
0001021-02A	90	88.4	89.5
0001021-03A	90	88.1	89.5
0001021-04A	84.4	82.5	95
0001021-05A	86.6	87.8	87.5
0001021-06A	90.5	88.6	89.3
0001021-07A	87.3	84.4	89.7
CCV1 BTEX_00010	89.3	84.4	88.7
CCV2 BTEX_00010	89.6	88.8	88.7
CCV3 BTEX_00010	89.6	87.8	88.3
LCS WATER	88.9	89.5	88.1
MB1	90	86.3	89.3

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

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW8 - 0127001039
Lab ID:	0001031-01A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 10:39:00 AM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/28/2000
Toluene	ND	0.5		µg/L	1	1/28/2000
Ethylbenzene	ND	0.5		µg/L	1	1/28/2000
m,p-Xylene	ND	1		µg/L	1	1/28/2000
o-Xylene	ND	0.5		µg/L	1	1/28/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW9 - 0127001113
Lab ID:	0001031-02A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 11:13:00 AM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW10 - 0127001325
Lab ID:	0001031-03A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 1:25:00 PM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: DM
Benzene	2.2	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	3.6	0.5		µg/L	1	1/27/2000
m,p-Xylene	16	1		µg/L	1	1/27/2000
o-Xylene	0.7	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW11 - 0127001304
Lab ID:	0001031-04A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 1:04:00 PM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	35	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	1.5	0.5		µg/L	1	1/27/2000
m,p-Xylene	23	1		µg/L	1	1/27/2000
o-Xylene	8.3	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW12 - 0127001220
Lab ID:	0001031-05A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 12:20:00 PM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	MW13 - 0127001146
Lab ID:	0001031-06A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 11:46:00 AM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	1.5	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	1.8	0.5		µg/L	1	1/27/2000
m,p-Xylene	9	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	DUP - 012700XXXX
Lab ID:	0001031-07A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	Trip Blank
Lab ID:	0001031-08A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-Jan-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper - Martinez
Work Order:	0001031	**Client Sample ID:**	Rinsate - 0127001335
Lab ID:	0001031-09A **Matrix:** AQUEOUS	**Collection Date:**	1/27/2000 1:35:00 PM
Project:	Leeper - Martinez	**COC Record:**	10351

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	1/27/2000
Toluene	ND	0.5		µg/L	1	1/27/2000
Ethylbenzene	ND	0.5		µg/L	1	1/27/2000
m,p-Xylene	ND	1		µg/L	1	1/27/2000
o-Xylene	ND	0.5		µg/L	1	1/27/2000

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB. (505) 325-5667 • FAX: (505) 327-1496

Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES	Number of Containers	ANALYSIS REQUESTED	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush [X] 24-48 Hours [ ] 10 Working Days [ ] By Date [ ]	

Authorized by: _____ Date _____

(Client Signature Must Accompany Request)

Special Instructions / Remarks:

White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *31-Jun-00*

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT
Method Blank

Sample ID: MB1	Batch ID: GC-1_000127	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/27/2000	Prep Date:
Client ID:	0001031	Run ID: GC-1_000127A		SeqNo: 23154	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.0957	0.5									J
Ethylbenzene	.1201	0.5									J
m,p-Xylene	.2381	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.0984	0.5									J
Toluene	.1544	0.5									J

Sample ID: MB1	Batch ID: GC-1_000128	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/28/2000	Prep Date:
Client ID:	0001031	Run ID: GC-1_000128A		SeqNo: 23175	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	.135	0.5									J
Ethylbenzene	.0915	0.5									J
m,p-Xylene	.1663	1									J
Methyl tert-Butyl Ether	ND	1									
o-Xylene	.0712	0.5									J
Toluene	.1331	0.5									J

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

On Site Technologies, LTD.

Date: *31-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0001031-01AMS | **Batch ID:** GC-1_000127 | **Test Code:** SW8021B | **Units:** µg/L | **Analysis Date:** 1/27/2000 | **Prep Date:**
Client ID: MW8 - 012700103 | 0001031 | **Run ID:** GC-1_000127A | **SeqNo:** 23156

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	389	5	400	0.5	97.1%	73	126				
Ethylbenzene	394.4	5	400	0.5	98.5%	88	113				
m,p-Xylene	752.5	10	800	1	93.9%	83	112				
Methyl tert-Butyl Ether	399.5	10	400	0	99.9%	81	125				
o-Xylene	395.4	5	400	0.4	98.8%	93	110				
Toluene	392.6	5	400	0.8	98.0%	76	126				

Sample ID: 0001031-01AMSD | **Batch ID:** GC-1_000127 | **Test Code:** SW8021B | **Units:** µg/L | **Analysis Date:** 1/27/2000 | **Prep Date:**
Client ID: MW8 - 012700103 | 0001031 | **Run ID:** GC-1_000127A | **SeqNo:** 23158

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	392.6	5	400	0.5	98.0%	73	126	389	0.9%	6	
Ethylbenzene	398.2	5	400	0.5	99.4%	88	113	394.4	1.0%	5	
m,p-Xylene	760.4	10	800	1	94.9%	83	112	752.5	1.0%	7	
Methyl tert-Butyl Ether	408	10	400	0	102.0%	81	125	399.5	2.1%	9	
o-Xylene	400.5	5	400	0.4	100.0%	93	110	395.4	1.3%	6	
Toluene	396.5	5	400	0.8	98.9%	76	126	392.6	1.0%	6	

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

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0001032-03AMS	Batch ID: GC-1_000128	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/28/2000	Prep Date:
Client ID: 0001031	Run ID: GC-1_000128A			SeqNo: 23176	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2540	10	800	1625	114.4%	73	126				
Ethylbenzene	796.7	10	800	1.754	99.4%	88	113				
m,p-Xylene	1518	20	1600	3.076	94.7%	83	112				
Methyl tert-Butyl Ether	818.4	20	800	0	102.3%	81	125				
o-Xylene	799.3	10	800	0.666	99.8%	93	110				
Toluene	794.9	10	800	2.396	99.1%	76	126				

Sample ID: 0001032-03AMSD	Batch ID: GC-1_000128	Test Code: SW8021B	Units: µg/L	Analysis Date: 1/28/2000	Prep Date:
Client ID: 0001031	Run ID: GC-1_000128A			SeqNo: 23177	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2523	10	800	1625	112.2%	73	126	2540	0.7%	6	
Ethylbenzene	791.9	10	800	1.754	98.8%	88	113	796.7	0.6%	5	
m,p-Xylene	1509	20	1600	3.076	94.1%	83	112	1518	0.6%	7	
Methyl tert-Butyl Ether	814.5	20	800	0	101.8%	81	125	818.4	0.5%	9	
o-Xylene	798.3	10	800	0.666	99.7%	93	110	799.3	0.1%	6	
Toluene	791.6	10	800	2.396	98.7%	76	126	794.9	0.4%	6	

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

On Site Technologies, LTD.

Date: *31-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER Batch ID: **GC-1_000127** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/27/2000** Prep Date:

Client ID: **0001031** Run ID: **GC-1_000127A** SeqNo: **23153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.49	0.5	40	0.0957	101.0%	89	112				
Ethylbenzene	41.11	0.5	40	0.1201	102.5%	93	112				
m,p-Xylene	78.47	1	80	0.2381	97.8%	88	108				
Methyl tert-Butyl Ether	40.58	1	40	0	101.5%	87	115				
o-Xylene	41.19	0.5	40	0.0984	102.7%	93	112				
Toluene	40.84	0.5	40	0.1544	101.7%	92	111				

Sample ID: LCS WATER Batch ID: **GC-1_000128** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/28/2000** Prep Date:

Client ID: **0001031** Run ID: **GC-1_000128A** SeqNo: **23174**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	40.32	0.5	40	0.135	100.5%	89	112				
Ethylbenzene	41.4	0.5	40	0.0915	103.3%	93	112				
m,p-Xylene	78.96	1	80	0.1663	98.5%	88	108				
Methyl tert-Butyl Ether	40.16	1	40	0	100.4%	87	115				
o-Xylene	41.46	0.5	40	0.0712	103.5%	93	112				
Toluene	40.97	0.5	40	0.1331	102.1%	92	111				

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

On Site Technologies, LTD.

Date: *31-Jan-00*

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_0001** Batch ID: **GC-1_000127** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/27/2000** Prep Date:

Client ID: **0001031** Run ID: **GC-1_000127A** SeqNo: **23150**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.4	0.5	20	0	102.0%	85	115				
Ethylbenzene	21.74	0.5	20	0	108.7%	85	115				
m,p-Xylene	40.96	1	40	0	102.4%	85	115				
Methyl tert-Butyl Ether	20.92	1	20	0	104.6%	85	115				
o-Xylene	21.71	0.5	20	0	108.5%	85	115				
Toluene	20.71	0.5	20	0	103.5%	85	115				
1,4-Difluorobenzene	88.81	0	100	0	88.8%	80	105				
4-Bromochlorobenzene	88.76	0	100	0	88.8%	78	108				
Fluorobenzene	88.02	0	100	0	88.0%	78	108				

Sample ID: **CCV2 BTEX_0001** Batch ID: **GC-1_000127** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/27/2000** Prep Date:

Client ID: **0001031** Run ID: **GC-1_000127A** SeqNo: **23151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.8	0.5	20	0	99.0%	85	115				
Ethylbenzene	21.07	0.5	20	0	105.4%	85	115				
m,p-Xylene	39.76	1	40	0	99.4%	85	115				
Methyl tert-Butyl Ether	21.12	1	20	0	105.6%	85	115				
o-Xylene	21.2	0.5	20	0	106.0%	85	115				
Toluene	20.16	0.5	20	0	100.8%	85	115				
1,4-Difluorobenzene	89.42	0	100	0	89.4%	80	105				
4-Bromochlorobenzene	88.98	0	100	0	89.0%	78	108				
Fluorobenzene	87.84	0	100	0	87.8%	78	108				

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

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0001 Batch ID: GC-1_000127 Test Code: SW8021B Units: µg/L Analysis Date: 1/27/2000 Prep Date:
Client ID: 0001031 Run ID: GC-1_000127A SeqNo: 23152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.65	0.5	20	0	103.2%	85	115				
Ethylbenzene	21.36	0.5	20	0	106.8%	85	115				
m,p-Xylene	40.43	1	40	0	101.1%	85	115				
Methyl tert-Butyl Ether	20.69	1	20	0	103.5%	85	115				
o-Xylene	21.26	0.5	20	0	106.3%	85	115				
Toluene	20.93	0.5	20	0	104.7%	85	115				
1,4-Difluorobenzene	89.12	0	100	0	89.1%	80	105				
4-Bromochlorobenzene	88.52	0	100	0	88.5%	78	108				
Fluorobenzene	88.09	0	100	0	88.1%	78	108				

Sample ID: CCV1 BTEX_0001 Batch ID: GC-1_000128 Test Code: SW8021B Units: µg/L Analysis Date: 1/28/2000 Prep Date:
Client ID: 0001031 Run ID: GC-1_000128A SeqNo: 23171

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.27	0.5	20	0	101.4%	85	115				
Ethylbenzene	21.09	0.5	20	0	105.4%	85	115				
m,p-Xylene	39.93	1	40	0	99.8%	85	115				
Methyl tert-Butyl Ether	20.41	1	20	0	102.0%	85	115				
o-Xylene	21.1	0.5	20	0	105.5%	85	115				
Toluene	20.52	0.5	20	0	102.6%	85	115				
1,4-Difluorobenzene	89.04	0	100	0	89.0%	80	105				
4-Bromochlorobenzene	89.45	0	100	0	89.4%	78	108				
Fluorobenzene	87.92	0	100	0	87.9%	78	108				

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

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV2 BTEX_0001** Batch ID: **GC-1_000128** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/28/2000** Prep Date:
Client ID: **0001031** Run ID: **GC-1_000128A** SeqNo: **23172**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.02	0.5	20	0	100.1%	85	115				
Ethylbenzene	20.7	0.5	20	0	103.5%	85	115				
m,p-Xylene	39.18	1	40	0	98.0%	85	115				
Methyl tert-Butyl Ether	20.78	1	20	0	103.9%	85	115				
o-Xylene	20.81	0.5	20	0	104.1%	85	115				
Toluene	20.25	0.5	20	0	101.2%	85	115				
1,4-Difluorobenzene	88.76	0	100	0	88.8%	80	105				
4-Bromochlorobenzene	88.51	0	100	0	88.5%	78	108				
Fluorobenzene	88.14	0	100	0	88.1%	78	108				

Sample ID: **CCV3 BTEX_0001** Batch ID: **GC-1_000128** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **1/28/2000** Prep Date:
Client ID: **0001031** Run ID: **GC-1_000128A** SeqNo: **23173**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.66	0.5	20	0	98.3%	85	115				
Ethylbenzene	20.15	0.5	20	0	100.7%	85	115				
m,p-Xylene	38.14	1	40	0	95.4%	85	115				
Methyl tert-Butyl Ether	20.04	1	20	0	100.2%	85	115				
o-Xylene	20.13	0.5	20	0	100.7%	85	115				
Toluene	19.86	0.5	20	0	99.3%	85	115				
1,4-Difluorobenzene	88.86	0	100	0	88.9%	80	105				
4-Bromochlorobenzene	88.18	0	100	0	88.2%	78	108				
Fluorobenzene	87.45	0	100	0	87.5%	78	108				

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

On Site Technologies, LTD.

Date: 31-Jan-00

CLIENT: Blagg Engineering
Work Order: 0001031
Project: Leeper - Martinez
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0001024-04A	83.7	82.5	83.1
0001028-02A	88.3	88.3	87.8
0001028-03A	89.7	88.5	88.5
0001028-04A	89.2	88.3	88.3
0001030-01A	87.5	88.4	86.6
0001030-03A	85.7	88.4	85.3
0001030-04A	87.5	88.4	86.5
0001031-01A	89.7	88.7	88.3
0001031-01AMS	88.4	88.4	87.6
0001031-01AMSD	88.8	89.3	87.5
0001031-02A	89.1	89.5	88.5
0001031-03A	85.6	83.3	89
0001031-04A	86.6	87.8	86.3
0001031-05A	89.6	88.7	88.8
0001031-06A	88.6	86.4	88.4
0001031-07A	89.8	88.9	89.2
0001031-08A	90.4	89.4	88.7
0001031-09A	87.2	88.6	87.6
0001032-01A	88.2	89.4	86.9
0001032-02A	88.9	89.2	88.1
0001032-03A	88.2	88.8	86.5
0001032-03AMS	87.5	89.1	86.6
0001032-03AMSD	88.1	89.4	86.1
0001032-04A	89.9	89.4	88.6
0001032-05A	90.8	89.1	87.1
0001032-06A	88.4	88.6	86.8
0001032-07A	88.9	90.1	87.6

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

*** Surrogate recovery outside acceptance limits**

CLIENT:	Blagg Engineering
Work Order:	0001031
Project:	Leeper - Martinez
Test No:	SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0001032-08A	88.8	88.5	88.1
0001032-09A	89.3	89.1	88.8
0001032-10A	88.1	89.1	86.7
CCV1 BTEX_00010	89	89.4	87.9
CCV2 BTEX_00010	88.8	88.5	88.1
CCV3 BTEX_00010	88.9	88.2	87.4
LCS WATER	88.6	89.3	87.4
MB1	89.8	88.9	88.4

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

*** Surrogate recovery outside acceptance limits**

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 4 - 012700 0930	Date Reported:	01-28-00
Laboratory Number:	G729	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.034**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.021**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 5 - 012700 1011	Date Reported:	01-28-00
Laboratory Number:	G730	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.033**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.024**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

Analyst

Review

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 8 - 012700 1039	Date Reported:	01-28-00
Laboratory Number:	G731	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	ND	0.001
Barium	0.068	0.001
Cadmium	ND	0.001
Chromium	ND	0.001
Lead	0.022	0.001
Mercury	ND	0.001
Selenium	ND	0.001
Silver	ND	0.001

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

Analyst

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 9 - 012700 1113	Date Reported:	01-28-00
Laboratory Number:	G732	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.049**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.023**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

Analyst

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 10 - 012700 1325	Date Reported:	01-28-00
Laboratory Number:	G733	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.095**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.024**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 11 - 012700 1304	Date Reported:	01-28-00
Laboratory Number:	G734	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.090**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.021**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 12 - 012700 1220	Date Reported:	01-28-00
Laboratory Number:	G735	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.155**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.023**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	MW 13 - 012700 1146	Date Reported:	01-28-00
Laboratory Number:	G736	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.239**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.022**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	DUP - 012700 xxxx	Date Reported:	01-28-00
Laboratory Number:	G737	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**0.151**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**0.023**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	Trip Blank	Date Reported:	01-28-00
Laboratory Number:	G738	Date Sampled:	01-27-00
Chain of Custody:	7009	Date Received:	01-27-00
Sample Matrix:	Water	Date Analyzed:	01-28-00
Preservative:	Cool	Date Digested:	01-28-00
Condition:	Cool & Intact	Analysis Needed:	Trace Metals

Parameter	Concentration (mg/L)	Det. Limit (mg/L)
Arsenic	**ND**	**0.001**
Barium	**ND**	**0.001**
Cadmium	**ND**	**0.001**
Chromium	**ND**	**0.001**
Lead	**ND**	**0.001**
Mercury	**ND**	**0.001**
Selenium	**ND**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **Leeper - Martinez.**

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CHAIN OF CUSTODY RECORD

7009

Client / Project Name	Project Location	ANALYSIS / PARAMETERS
BLAGG/AMOCO	LEEPER - MARTINEZ	
Sampler: J. C. Blagg	Client No. 403410	

Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	BTEX & METALS						Remarks
MW4 - 012700 0930	1/27/00	0930	G729	WATER	1	X						
MW5 - 012700 1011	"	1011	G730	"	1	X						
MW8 - 012700 1039	"	1039	G731	"	1	X						
MW9 - 012700 1113	"	1113	G732	"	1	X						
MW10 - 012700 1325	"	1325	G733	"	1	X						
MW11 - 012700 1304	"	1304	G734	"	1	X						
MW12 - 012700 1220	"	1220	G735	"	1	X						
MW13 - 012700 1146	"	1146	G736	"	1	X						
DUP - 012700 XXXX	"	XXXX	G737	"	1	X						
TRIP BLANK	"	—	G738	"	1	X						

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
J. C. Blagg	1/27/00	1516	Julie Herrera	1/27/00	15:16
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

ENVIROTECH INC.

5796 U.S. Highway 64
Farmington, New Mexico 87401
(505) 632-0615

Sample Receipt	Y	N	N/A
Received Intact			
Cool - Ice/Blue Ice			

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	01-28-TM QA/QC	Date Reported:	01-28-00
Laboratory Number:	G729	Date Sampled:	N/A
Sample Matrix:	Water	Date Received:	N/A
Analysis Requested:	Trace Metals	Date Analyzed:	01-28-00
Condition:	N/A	Date Digested:	01-28-00

Blank & Duplicate Conc. (mg/L)	Instrument Blank (mg/L)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Barium	ND	ND	0.001	0.034	0.034	0.0%	0% - 30%
Cadmium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Chromium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Lead	ND	ND	0.001	0.021	0.021	0.0%	0% - 30%
Mercury	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Selenium	ND	ND	0.001	ND	ND	0.0%	0% - 30%
Silver	ND	ND	0.001	ND	ND	0.0%	0% - 30%

Spike Conc. (mg/L)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	1.00	ND	0.998	100%	80% - 120%
Barium	1.00	0.034	1.03	100%	80% - 120%
Cadmium	0.500	ND	0.501	100%	80% - 120%
Chromium	1.00	ND	0.997	100%	80% - 120%
Lead	1.00	0.021	1.02	100%	80% - 120%
Mercury	0.500	ND	0.499	100%	80% - 120%
Selenium	0.500	ND	0.496	99%	80% - 120%
Silver	1.00	ND	0.999	100%	80% - 120%

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for samples G729 - G738.**

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

1/31/00

Leeper GC 1
Site Sampling Summary - Hydrocarbon Test Results - UPDATED 1/31/00

Table 1:Private Domestic Well Analytical Results - BTEX & Methane Summary
See Attached Figure 1 for Domestic Well Locations

Well Name	Sample Date	Sample ID	Benzene ug/L	Toluene ug/L	Ethyl-benzene ug/L	Xylenes ug/L	Methane ppm
Martinez Domestic 93 CR 2350	08/24/98	Private Well	1.2	1.4	1.0	4.7	--
	09/03/98	Private Well	ND	ND	ND	ND	--
	01/07/00	0107001110	ND	ND	ND	ND	--
	01/07/00	0107001240	ND	ND	ND	ND	--
Alafonso Domestic 102 CR 2350	06/09/99	Alafonso	0.3	0.7	ND	1.3	0.24
	06/10/99	Alafonso	ND	ND	ND	ND	--
	12/21/99	1221991035	ND	ND	ND	ND	--
McClanahan Domestic 98 CR 2335	06/09/99	McLanahan	1.3	3.4	1.0	14.0	ND
	06/10/99	McLanahan	ND	ND	ND	ND	--
	12/21/99	1221991145	ND	ND	ND	ND	--

Table 2:Monitor Well Analytical Results - BTEX Summary

See Attached Figure 2 for Monitor Well Locations

Monitor Well	Sample Date	Sample ID	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L
MW-1	10/14/98	MW-1	3.2	7.4	4.9	16.8
	06/25/99	MW-1	0.7	0.7	1.1	8.6
	10/05/99	MW-1	ND	ND	ND	ND
MW-2	10/14/98	MW-2	224	101	51.1	1,238
	01/29/99	MW-2	549	476	129	535
	06/25/99	MW-2	122	264	98.9	296
	10/05/99	MW-2	130	15	210	4,510
	01/18/00	0118001315	140	30	120	3,370
MW-3	10/14/98	MW-3	0.5	0.5	ND	0.9
	06/25/99	MW-3	2.3	12.3	3.3	29.6
	10/05/99	MW-3	7.7	1.7	1.1	9.0
MW-4	01/03/00	0103001430	ND	ND	ND	ND
	01/07/00	0107001435	ND	ND	ND	ND
MW-5	01/04/00	0104001039	ND	ND	ND	ND
	01/07/00	0107001515	ND	ND	ND	ND
	01/07/00	GW-1	ND	ND	ND	ND
MW-6	01/04/00	0104001305	ND	ND	ND	ND
	01/07/00	0107001605	ND	ND	ND	ND
MW-7	01/04/00	0104001518	ND	0.8	ND	ND
	01/07/00	0107001655	ND	ND	ND	ND
MW-8	01/18/00	0118001017	ND	ND	ND	ND
	01/27/00	0127001039	ND	ND	ND	ND
MW-9	01/18/00	0118001052	ND	ND	ND	ND
	01/27/00	0127001113	ND	ND	ND	ND
MW-10	01/18/00	0118001304	9.6	ND	12	77.7
	01/27/00	0127001325	2.2	ND	3.6	16.7
MW-11	01/18/00	0118001237	31	ND	3.3	63
	01/27/00	0127001304	35	ND	1.5	31.3
MW-12	01/18/00	0118001159	ND	ND	ND	ND
	01/27/00	0127001220	ND	ND	ND	ND
	01/27/00	012700xxxx	ND	ND	ND	ND
MW-13	01/18/00	0118001124	2.6	ND	2.5	19
	01/27/00	0127001146	1.5	ND	1.8	9

Table 3: Excavation & Test Pit Water Sampling Analytical Results - BTEX Summary
See Attached Figure 3 for Sampling Locations

Sample ID	Sample Date	Chain of Custody ID	Benzene ug/L	Toluene ug/L	Ethylbenzene ug/L	Xylenes ug/L
T1 @ GW 110'W x 30'N	05/08/92	T1 @ GW	ND	ND	ND	42.9
TH #2 115' S25W	02/12/99	TH#2@8'	2.9	6.9	2.8	22.5
TH #3 105' S4E	02/12/99	TH#3@9'	1.4	1.7	0.4	2.5
Bottom West @10' (4) on Fig. 3	03/17/99	Bottom West @10'	23.6	7.7	11.7	78.0
TH #101 150' S16W	03/24/99	TH#101(GW)	8.9	19.6	16.1	69.1
TH #104 195' S62W	03/24/99	TH#104(GW)	61.7	77	73.4	333
TH #106 168' S74W	03/24/99	TH#106(GW)	4.6	12.2	4.6	9.9
TH #108 243' S54W	03/24/99	TH#108(GW)	84.7	68.7	26.7	52
Main Pit @ NE Corner (9) on Fig. 3	05/21/99	Main Pit NE Corner	29.6	78.5	27	294.3
Excavation @ NE Corner (9) on Fig. 3	06/25/99	Excavation Water @ NE Corner	1.5	6.9	2.1	18.8
Excavation @ NE Corner (9) on Fig. 3	10/5/99	NE Excav.	1.1	ND	6.7	68.1

Table 4: Soil Sampling Analytical Results - Field OVM PID and Lab TPH/BTEX
See Attached Figure 4 for Sampling Locations

Sample ID	Sample Date	Chain of Custody ID	Field Headspace ppm	Total Petroleum Hydrocarbons U.S. EPA 8015 mg/Kg	Benzene U.S. EPA 8021 mg/Kg	Total BTEX mg/Kg
West Wall @ 5' (A) on Fig. 4	08/14/98	--	2.0	--	--	--
North Wall@5' (B) on Fig. 4	08/14/98	--	48.5	--	--	--
East Wall @ 5' (C) on Fig. 4	08/14/99	--	74.0	--	--	--
South Wall@5' (D) on Fig. 4	08/14/99	--	474	--	--	--
West Wall @ 5' (E) on Fig. 4	09/11/99	--	3.5	--	--	--
North Wall@5' (F) on Fig. 4	09/11/99	--	5.5	--	--	--
East Wall @ 5' (G) on Fig. 4	09/11/99	--	1.4	--	--	--
South Wall@5' (H) on Fig. 4	09/11/99	--	322	--	--	--
TH #1 @ 6'-7'	02/12/99	--	412	--	--	--
TH #2 @ 8'-9'	02/12/99	--	173	--	--	--
TH #3 @ 11'-13'	02/12/99	--	0.0	--	--	--
TH #4 @ 9'	02/12/99	--	0.0	--	--	--

Table 4: (continued)

Sample ID	Sample Date	Chain of Custody ID	Field Headspace ppm	Total Petroleum Hydrocarbons U.SEPA 8015 mg/Kg	Benzene U.S. EPA 8021 mg/Kg	Total BTEX mg/Kg
TH #5 @ 7'-9'	02/12/99	--	89	--	--	--
TH #6 @ 4'-6'	02/12/99	--	196	--	--	--
TH #7 @ 4'-8'	02/12/99	--	94	--	--	--
Center N. Wall @ 8' (P) on Fig. 4	03/11/99	Center of N. Wall @ 8'	--	3.7	0.409	2.17
West Wall @ 8' (Q) on Fig. 4	03/17/99	W @ 8'	--	3.5	0.0	0.294
South Wall @ 9' (R) on Fig. 4	03/17/99	S @ 9'	--	0.5	--	--
TH 101 @ 11'	03/24/99	--	1,004	--	--	--
TH 102 @ 11'	03/24/99	--	0.0	--	--	--
TH 103 @ 9'	03/24/99	TH#103(9')	1,017	36.3	0.625	7.40
TH 104 @ 11'	03/24/99	TH#104(11')	1,017	210	1.940	13.62
TH 105 @ 9'	03/24/99	--	0.0	--	--	--
TH 106 @ 9'	03/24/99	TH#106(9')	0.0	0.3	--	--
TH 107 @ 9'	03/24/99	TH#107(9')	0.0	0.0	--	--
TH 108 @ 10'	03/24/99	TH#108(10')	99.3	1.5	0.139	1.34

Table 4: (continued)

Sample ID	Sample Date	Chain of Custody ID	Field Headspace ppm	Total Petroleum Hydrocarbons U.SEPA 8015 mg/Kg	Benzene U.S. EPA 8021 mg/Kg	Total BTEX mg/Kg
MW-4 @8'	12/30/99	--	0.0	--	--	--
MW-4 @12'	12/30/99	--	0.0	--	--	--
MW-5 @8'	12/30/99	--	0.0	--	--	--
MW-5 @12'	12/30/99	--	0.0	--	--	--
MW-6 @8'	12/31/99	--	0.0	--	--	--
MW-6 @12'	12/31/99	--	0.0	--	--	--
MW-7 @8'	12/31/99	--	0.0	--	--	--
MW-7 @12'	12/31/99	--	0.0	--	--	--
MW-8 @2'	01/11/00	--	0.0	--	--	--
MW-8 @4'	01/11/00	--	0.0	--	--	--
MW-8 @6'	01/11/00	--	0.7	--	--	--
MW-8 @8'	01/11/00	--	0.0	--	--	--
MW-8 @10'	01/11/00	--	0.0	--	--	--
MW-9 @2'	01/12/00	--	0.0	--	--	--
MW-9 @4'	01/12/00	--	0.0	--	--	--
MW-9 @6'	01/12/00	--	0.0	--	--	--
MW-9 @8'	01/12/00	--	0.0	--	--	--
MW-10 @2'	01/10/00	--	0.0	--	--	--
MW-10 @4'	01/10/00	--	0.0	--	--	--
MW-10 @6'	01/10/00	--	0.0	--	--	--
MW-10 @9'	01/10/00	--	1.2	--	--	--
MW-11 @2'	01/11/00	--	0.0	--	--	--
MW-11 @4'	01/11/00	--	0.0	--	--	--
MW-11 @6'	01/11/00	--	0.0	--	--	--
MW-11 @8'	01/11/00	0111001018	402	38.1	--	--
MW-12 @2'	01/10/00	--	0.0	--	--	--
MW-12 @4'	01/10/00	--	0.8	--	--	--
MW-12 @6'	01/10/00	--	1.6	--	--	--
MW-12 @8'	01/10/00	--	0.8	--	--	--
MW-13 @2'	01/12/00	--	0.0	--	--	--
MW-13 @4'	01/12/00	--	0.0	--	--	--
MW-13 @6'	01/12/00	--	18.0	--	--	--
MW-13 @8'	01/12/00	--	88.0	--	--	--

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO **CHAIN-OF-CUSTODY # :** 10584

LOCATION : LEEPER GC # 1 **LABORATORY (S) USED :** ON - SITE TECH.

Date : May 16, 2000 **SAMPLER :** N J V

Filename : 05-16-00.WK4 **PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
8	104.55	95.72	8.83	21.90	-	-	-	-	-
9	101.92	95.32	6.60	22.00	-	-	-	-	-
10	103.50	95.91	7.59	19.90	1105	7.3	800	6.00	-
11	102.44	95.63	6.81	20.40	1155	6.9	800	6.75	-
12	101.68	93.47	8.21	19.70	0950	7.1	800	5.75	-
13	100.31	93.44	6.87	20.40	0920	7.2	900	6.75	-

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:

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 ".

Collected BTEX from MW #'s 10, 11, 12, & 13. Excellent recovery in all MW's sampled. MW elevations conducted by Vann Survey on 1 / 17 / 00.

OFF: (505) 325-5667
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ON SITE TECHNOLOGIES, LTD.

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

ANALYTICAL REPORT

Date: *22-May-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0005036	**Client Sample ID:**	MW-6
Lab ID:	0005036-01A **Matrix:** AQUEOUS	**Collection Date:**	5/16/2000 10:35:00 AM
Project:	BP Amoco - Leeper GC #1	**COC Record:**	10584

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: DM
Benzene	ND	0.5		µg/L	1	5/20/2000
Toluene	ND	0.5		µg/L	1	5/20/2000
Ethylbenzene	ND	0.5		µg/L	1	5/20/2000
m,p-Xylene	ND	1		µg/L	1	5/20/2000
o-Xylene	ND	0.5		µg/L	1	5/20/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *22-May-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0005036	**Client Sample ID:**	MW-10
Lab ID:	0005036-02A **Matrix:** AQUEOUS	**Collection Date:**	5/16/2000 11:05:00 AM
Project:	BP Amoco - Leeper GC #1	**COC Record:**	10584

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				**Analyst: DM**
Benzene	ND	0.5		µg/L	1	5/20/2000
Toluene	ND	0.5		µg/L	1	5/20/2000
Ethylbenzene	ND	0.5		µg/L	1	5/20/2000
m,p-Xylene	ND	1		µg/L	1	5/20/2000
o-Xylene	ND	0.5		µg/L	1	5/20/2000

Qualifiers:

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R - RPD outside accepted recovery limits
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Surr: - Surrogate

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ANALYTICAL REPORT

Date: *22-May-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0005036	**Client Sample ID:**	MW-11
Lab ID:	0005036-03A **Matrix:** AQUEOUS	**Collection Date:**	5/16/2000 11:55:00 AM
Project:	BP Amoco - Leeper GC #1	**COC Record:**	10584

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	26	0.5		µg/L	1	5/20/2000
Toluene	0.6	0.5		µg/L	1	5/20/2000
Ethylbenzene	8	0.5		µg/L	1	5/20/2000
m,p-Xylene	73	1		µg/L	1	5/20/2000
o-Xylene	1.9	0.5		µg/L	1	5/20/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
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ANALYTICAL REPORT

Date: *22-May-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0005036	**Client Sample ID:**	MW-12
Lab ID:	0005036-04A **Matrix:** AQUEOUS	**Collection Date:**	5/16/2000 9:50:00 AM
Project:	BP Amoco - Leeper GC #1	**COC Record:**	10584

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	ND	0.5		µg/L	1	5/20/2000
Toluene	ND	0.5		µg/L	1	5/20/2000
Ethylbenzene	ND	0.5		µg/L	1	5/20/2000
m,p-Xylene	ND	1		µg/L	1	5/20/2000
o-Xylene	ND	0.5		µg/L	1	5/20/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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Surr: - Surrogate

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ANALYTICAL REPORT

Date: *22-May-00*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0005036	**Client Sample ID:**	MW-13
Lab ID:	0005036-05A **Matrix:** AQUEOUS	**Collection Date:**	5/16/2000 9:20:00 AM
Project:	BP Amoco - Leeper GC #1	**COC Record:**	10584

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DM**
Benzene	14	0.5		µg/L	1	5/20/2000
Toluene	0.8	0.5		µg/L	1	5/20/2000
Ethylbenzene	9	0.5		µg/L	1	5/20/2000
m,p-Xylene	75	1		µg/L	1	5/20/2000
o-Xylene	0.6	0.5		µg/L	1	5/20/2000

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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Providing Reliable Industry With The Environment

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

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Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

Number of Containers

ANALYSIS REQUESTED

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐

Authorized by: _____ Date _____

(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *22-May-00*

CLIENT: Blagg Engineering
Work Order: 0005036
Project: BP Amoco - Leeper GC #1

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:

Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27838**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.0893	0.5									J

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

On Site Technologies, LTD.

Date: *22-May-00*

CLIENT: Blagg Engineering
Work Order: *0005036*
Project: BP Amoco - Leeper GC #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: **0005022-03AMS** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:
Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27839**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6560	25	2000	4300	113.0%	73	126				
Ethylbenzene	2252	25	2000	120	106.6%	88	113				
m,p-Xylene	4980	50	4000	1000	99.5%	83	112				
Methyl tert-Butyl Ether	2174	50	2000	0	108.7%	81	125				
o-Xylene	2250	25	2000	170	104.0%	93	110				
Toluene	4377	25	2000	2300	103.8%	76	126				

Sample ID: **0005022-03AMSD** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:
Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27840**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	6404	25	2000	4300	105.2%	73	126	6560	2.4%	6	
Ethylbenzene	2201	25	2000	120	104.1%	88	113	2252	2.3%	5	
m,p-Xylene	4874	50	4000	1000	96.8%	83	112	4980	2.2%	7	
Methyl tert-Butyl Ether	2155	50	2000	0	107.8%	81	125	2174	0.9%	9	
o-Xylene	2207	25	2000	170	101.9%	93	110	2250	1.9%	6	
Toluene	4271	25	2000	2300	98.5%	76	126	4377	2.5%	6	

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

On Site Technologies, LTD.

Date: *22-May-00*

CLIENT: Blagg Engineering
Work Order: 0005036
Project: BP Amoco - Leeper GC #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 BTEX_0004** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:
Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27834**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	22.59	0.5	20	0	112.9%	85	115				
Ethylbenzene	22.45	0.5	20	0	112.3%	85	115				
m,p-Xylene	41.89	1	40	0	104.7%	85	115				
Methyl tert-Butyl Ether	22.37	1	20	0	111.8%	85	115				
o-Xylene	22.1	0.5	20	0	110.5%	85	115				
Toluene	21.9	0.5	20	0	109.5%	85	115				
1,4-Difluorobenzene	88.27	0	100	0	88.3%	80	105				
4-Bromochlorobenzene	94.25	0	100	0	94.3%	78	108				
Fluorobenzene	84.19	0	100	0	84.2%	78	108				

Sample ID: **CCV2 BTEX_0004** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:
Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27835**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.55	0.5	20	0	107.7%	85	115				
Ethylbenzene	21.85	0.5	20	0	109.2%	85	115				
m,p-Xylene	40.65	1	40	0	101.6%	85	115				
Methyl tert-Butyl Ether	22.5	1	20	0	112.5%	85	115				
o-Xylene	21.57	0.5	20	0	107.8%	85	115				
Toluene	21.37	0.5	20	0	106.9%	85	115				
1,4-Difluorobenzene	87.86	0	100	0	87.9%	80	105				
4-Bromochlorobenzene	95.32	0	100	0	95.3%	78	108				
Fluorobenzene	83.48	0	100	0	83.5%	78	108				

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

On Site Technologies, LTD.

Date: *22-May-00*

CLIENT: Blagg Engineering
Work Order: 0005036
Project: BP Amoco - Leeper GC #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: LCS WATER	Batch ID: GC-1_000520	Test Code: SW8021B	Units: µg/L	Analysis Date 5/20/2000	Prep Date:
Client ID:	0005036	Run ID: GC-1_000520A		SeqNo: 27837	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	42.46	0.5	40	0	106.1%	89	112				
Ethylbenzene	42.76	0.5	40	0	106.9%	93	112				
m,p-Xylene	79.8	1	80	0	99.7%	88	108				
Methyl tert-Butyl Ether	43.17	1	40	0	107.9%	87	115				
o-Xylene	42.04	0.5	40	0	105.1%	93	112				
Toluene	42.16	0.5	40	0.0893	105.2%	92	111				

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

On Site Technologies, LTD.

Date: 22-May-00

CLIENT: Blagg Engineering
Work Order: 0005036
Project: BP Amoco - Leeper GC #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0005018-01A	86.2	96.2	81.3
0005020-04A	88.4	93.9	84.4
0005022-01A	88.8	94.4	84.4
0005022-03A	86.6	95.1	82.1
0005022-03AMS	86.4	95.4	82.3
0005022-03AMSD	86.3	95.4	82.2
0005022-06A	83.2	93.4	79.3
0005022-08A	87.5	92.8	83.1
0005023-01A	86.5	94.1	82.6
0005031-01A	87	94.3	83.8
0005031-02A	87.8	94.7	83.9
0005031-03A	87.9	95.1	83.8
0005031-04A	87.6	94.6	83.7
0005032-01A	88	95	83.5
0005032-02A	88	94.6	84
0005036-01A	88.3	94.9	84.6
0005036-02A	88.3	95.1	84.1
0005036-03A	85.1	93.1	81.6
0005036-04A	88.3	95.1	84.2
0005036-05A	87.7	94.9	83.5
0005049-03A	87.6	92.9	83.3
0005049-05A	88.5	95	84.5
CCV1 BTEX_00040	88.3	94.2	84.2
CCV2 BTEX_00040	87.8	95.3	83.5
CCV3 BTEX_00040	87.7	94.9	83.1
LCS WATER	87.7	95	83
MB1	88.5	92.1	83.8

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

*** Surrogate recovery outside acceptance limits**

CLIENT: Blagg Engineering
Work Order: 0005036
Project: BP Amoco - Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

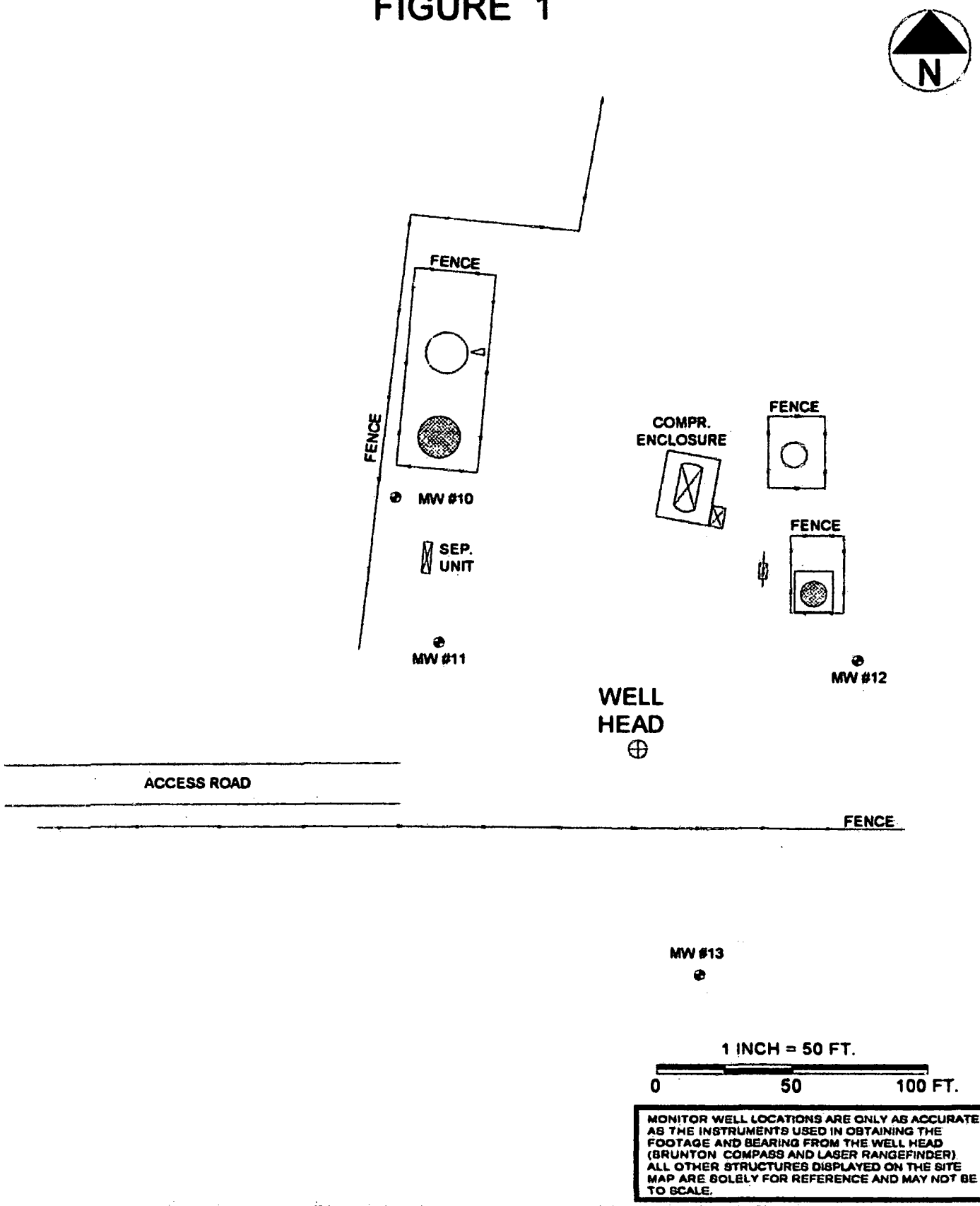
Sample ID: **CCV3 BTEX_0004** Batch ID: **GC-1_000520** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/20/2000** Prep Date:

Client ID: **0005036** Run ID: **GC-1_000520A** SeqNo: **27836**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	41.16	0.5	40	0	102.9%	85	115				
Ethylbenzene	41.2	0.5	40	0	103.0%	85	115				
m,p-Xylene	76.73	1	80	0	95.9%	85	115				
Methyl tert-Butyl Ether	43.95	1	40	0	109.9%	85	115				
o-Xylene	40.74	0.5	40	0	101.9%	85	115				
Toluene	40.75	0.5	40	0	101.9%	85	115				
1,4-Difluorobenzene	87.67	0	100	0	87.7%	80	105				
4-Bromochlorobenzene	94.93	0	100	0	94.9%	78	108				
Fluorobenzene	83.13	0	100	0	83.1%	78	108				

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

FIGURE 1



MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGEFINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION COMPANY LEEPER GAS COM # 1 NW/4 SW/4 SEC. 34, T32N, R10W SAN JUAN COUNTY, NEW MEXICO	BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199	PROJECT: MW SAMPLING DRAWN BY: NJV FILENAME: 05-21-01-SM.SKF REVISED: 08/26/02 NJV	SITE MAP 05/01

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO **CHAIN-OF-CUSTODY # :** 11145

LOCATION : LEEPER GC # 1 **LABORATORY (S) USED :** ON - SITE TECH.

Date : May 22, 2001 **SAMPLER :** N J V

Filename : 05-22-01.WK4 **PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
10	103.50	96.33	7.17	19.90	1030	7.44	700	6.25	-
11	102.44	96.11	6.33	20.40	1120	7.15	900	7.00	-
12	101.68	94.40	7.28	19.70	0830	7.34	700	6.25	-
13	100.31	94.40	5.91	20.40	0930	7.27	800	7.25	-

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:

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 ".

Excellent recovery in all MW 's listed above . Collected BTEX from all MW 's listed above .

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FAX: (505) 327-1496

ON SITE
TECHNOLOGIES, LTD.

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

ANALYTICAL REPORT

Date: *31-May-01*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0105047	**Client Sample ID:**	MW #10
Lab ID:	0105047-01A **Matrix:** AQUEOUS	**Collection Date:**	5/22/2001 10:30:00 AM
Project:	BP Amoco: Leeper GC #1	**COC Record:**	11145

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HR**
Benzene	ND	0.5		µg/L	1	5/28/2001
Toluene	ND	0.5		µg/L	1	5/28/2001
Ethylbenzene	ND	0.5		µg/L	1	5/28/2001
m,p-Xylene	ND	1		µg/L	1	5/28/2001
o-Xylene	ND	0.5		µg/L	1	5/28/2001

Qualifiers:

PQL - Practical Quantitation Limit
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E - Value above quantitation range
Surr - Surrogate

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

ANALYTICAL REPORT

Date: *31-May-01*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0105047	**Client Sample ID:**	MW #11
Lab ID:	0105047-02A **Matrix:** AQUEOUS	**Collection Date:**	5/22/2001 11:20:00 AM
Project:	BP Amoco: Leeper GC #1	**COC Record:**	11145

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HR**
Benzene	16	0.5		µg/L	1	5/28/2001
Toluene	0.8	0.5		µg/L	1	5/28/2001
Ethylbenzene	3	0.5		µg/L	1	5/28/2001
m,p-Xylene	21	1		µg/L	1	5/28/2001
o-Xylene	ND	0.5		µg/L	1	5/28/2001

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *31-May-01*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0105047	**Client Sample ID:**	MW #12
Lab ID:	0105047-03A **Matrix:** AQUEOUS	**Collection Date:**	5/22/2001 8:30:00 AM
Project:	BP Amoco: Leeper GC #1	**COC Record:**	11145

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HR**
Benzene	ND	0.5		µg/L	1	5/28/2001
Toluene	ND	0.5		µg/L	1	5/28/2001
Ethylbenzene	ND	0.5		µg/L	1	5/28/2001
m,p-Xylene	ND	1		µg/L	1	5/28/2001
o-Xylene	ND	0.5		µg/L	1	5/28/2001

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: *31-May-01*

Client:	Blagg Engineering	**Client Sample Info:**	Leeper GC #1
Work Order:	0105047	**Client Sample ID:**	MW #13
Lab ID:	0105047-04A **Matrix:** AQUEOUS	**Collection Date:**	5/22/2001 9:30:00 AM
Project:	BP Amoco; Leeper GC #1	**COC Record:**	11145

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HR**
Benzene	0.5	0.5		µg/L	1	5/28/2001
Toluene	ND	0.5		µg/L	1	5/28/2001
Ethylbenzene	0.7	0.5		µg/L	1	5/28/2001
m,p-Xylene	3.1	1		µg/L	1	5/28/2001
o-Xylene	ND	0.5		µg/L	1	5/28/2001

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
Surr: - Surrogate

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CHAIN OF CUSTODY RECORD

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Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES	Number of Containers	ANALYSIS REQUESTED	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐	

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco; Leeper GC #1

QC SUMMARY REPORT
Method Blank

Sample ID: MB1 | Batch ID: GC-1_010528 | Test Code: SW8021B | Units: µg/L | Analysis Date 5/28/2001 | Prep Date:
Client ID: 0105047 | Run ID: GC-1_010528A | SeqNo: 38468

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	ND	1									
Methyl tert-Butyl Ether	ND	1									
o-Xylene	ND	0.5									
Toluene	.1045	0.5									J

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

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco; Leeper GC #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: 0105046-05AMS | Batch ID: GC-1_010528 | Test Code: SW8021B | Units: µg/L | Analysis Date 5/28/2001 | Prep Date:
Client ID: 0105047 | Run ID: GC-1_010528A | SeqNo: 38469

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2164	25	2000	260	95.2%	70	130				
Ethylbenzene	1972	25	2000	40	96.6%	70	130				
m,p-Xylene	3720	50	4000	20	92.5%	70	130				
Methyl tert-Butyl Ether	6369	50	2000	4600	88.5%	70	130				
o-Xylene	1913	25	2000	0	95.7%	70	130				
Toluene	1905	25	2000	8	94.8%	70	130				

Sample ID: 0105046-05AMSD | Batch ID: GC-1_010528 | Test Code: SW8021B | Units: µg/L | Analysis Date 5/28/2001 | Prep Date:
Client ID: 0105047 | Run ID: GC-1_010528A | SeqNo: 38470

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2243	25	2000	260	99.1%	70	130	2164	3.6%	8	
Ethylbenzene	2059	25	2000	40	101.0%	70	130	1972	4.3%	7	
m,p-Xylene	3879	50	4000	20	96.5%	70	130	3720	4.2%	7	
Methyl tert-Butyl Ether	6499	50	2000	4600	95.0%	70	130	6369	2.0%	6	
o-Xylene	1985	25	2000	0	99.2%	70	130	1913	3.7%	6	
Toluene	1977	25	2000	8	98.4%	70	130	1905	3.7%	6	

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

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco; Leeper GC #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS WATER** Batch ID: **GC-1_010528** Test Code: **SW8021B** Units: **µg/L** Analysis Date **5/28/2001** Prep Date:

Client ID: **0105047** Run ID: **GC-1_010528A** SeqNo: **38467**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.85	0.5	40	0	99.6%	80	120				
Ethylbenzene	40.16	0.5	40	0	100.4%	80	120				
m,p-Xylene	76.97	1	80	0	96.2%	80	120				
Methyl tert-Butyl Ether	40.72	1	40	0	101.8%	80	120				
o-Xylene	39.65	0.5	40	0	99.1%	80	120				
Toluene	39.52	0.5	40	0.1045	98.5%	80	120				

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

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco: Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV1 BTEX_0105 Batch ID: GC-1_010528 Test Code: SW8021B Units: µg/L Analysis Date 5/28/2001 Prep Date:
Client ID: 0105047 Run ID: GC-1_010528A SeqNo: 38464

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.2	0.5	20	0	96.0%	85	115				
Ethylbenzene	19.4	0.5	20	0	97.0%	85	115				
m,p-Xylene	37.34	1	40	0	93.3%	85	115				
Methyl tert-Butyl Ether	20.15	1	20	0	100.7%	85	115				
o-Xylene	19.13	0.5	20	0	95.6%	85	115				
Toluene	19.1	0.5	20	0	95.5%	85	115				
1,4-Difluorobenzene	74.82	0	80	0	93.5%	70	130				
4-Bromochlorobenzene	83.66	0	80	0	104.6%	70	130				
Fluorobenzene	75.7	0	80	0	94.6%	70	130				

Sample ID: CCV2 BTEX_0105 Batch ID: GC-1_010528 Test Code: SW8021B Units: µg/L Analysis Date 5/28/2001 Prep Date:
Client ID: 0105047 Run ID: GC-1_010528A SeqNo: 38465

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.14	0.5	40	0	97.8%	85	115				
Ethylbenzene	39.38	0.5	40	0	98.4%	85	115				
m,p-Xylene	75.5	1	80	0	94.4%	85	115				
Methyl tert-Butyl Ether	41.01	1	40	0	102.5%	85	115				
o-Xylene	38.85	0.5	40	0	97.1%	85	115				
Toluene	38.83	0.5	40	0	97.1%	85	115				
1,4-Difluorobenzene	74.6	0	80	0	93.2%	70	130				
4-Bromochlorobenzene	80.22	0	80	0	100.3%	70	130				
Fluorobenzene	74.83	0	80	0	93.5%	70	130				

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

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco; Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: CCV3 BTEX_0105 Batch ID: GC-1_010528 Test Code: SW8021B Units: µg/L Analysis Date 5/28/2001 Prep Date:
Client ID: 0105047 Run ID: GC-1_010528A SeqNo: 38466

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.66	0.5	20	0	98.3%	85	115				
Ethylbenzene	19.63	0.5	20	0	98.2%	85	115				
m,p-Xylene	37.82	1	40	0	94.6%	85	115				
Methyl tert-Butyl Ether	20.48	1	20	0	102.4%	85	115				
o-Xylene	19.31	0.5	20	0	96.5%	85	115				
Toluene	19.4	0.5	20	0	97.0%	85	115				
1,4-Difluorobenzene	74.61	0	80	0	93.3%	70	130				
4-Bromochlorobenzene	83.44	0	80	0	104.3%	70	130				
Fluorobenzene	75.53	0	80	0	94.4%	70	130				

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

On Site Technologies, LTD.

Date: 31-May-01

CLIENT: Blagg Engineering
Work Order: 0105047
Project: BP Amoco; Leeper GC #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

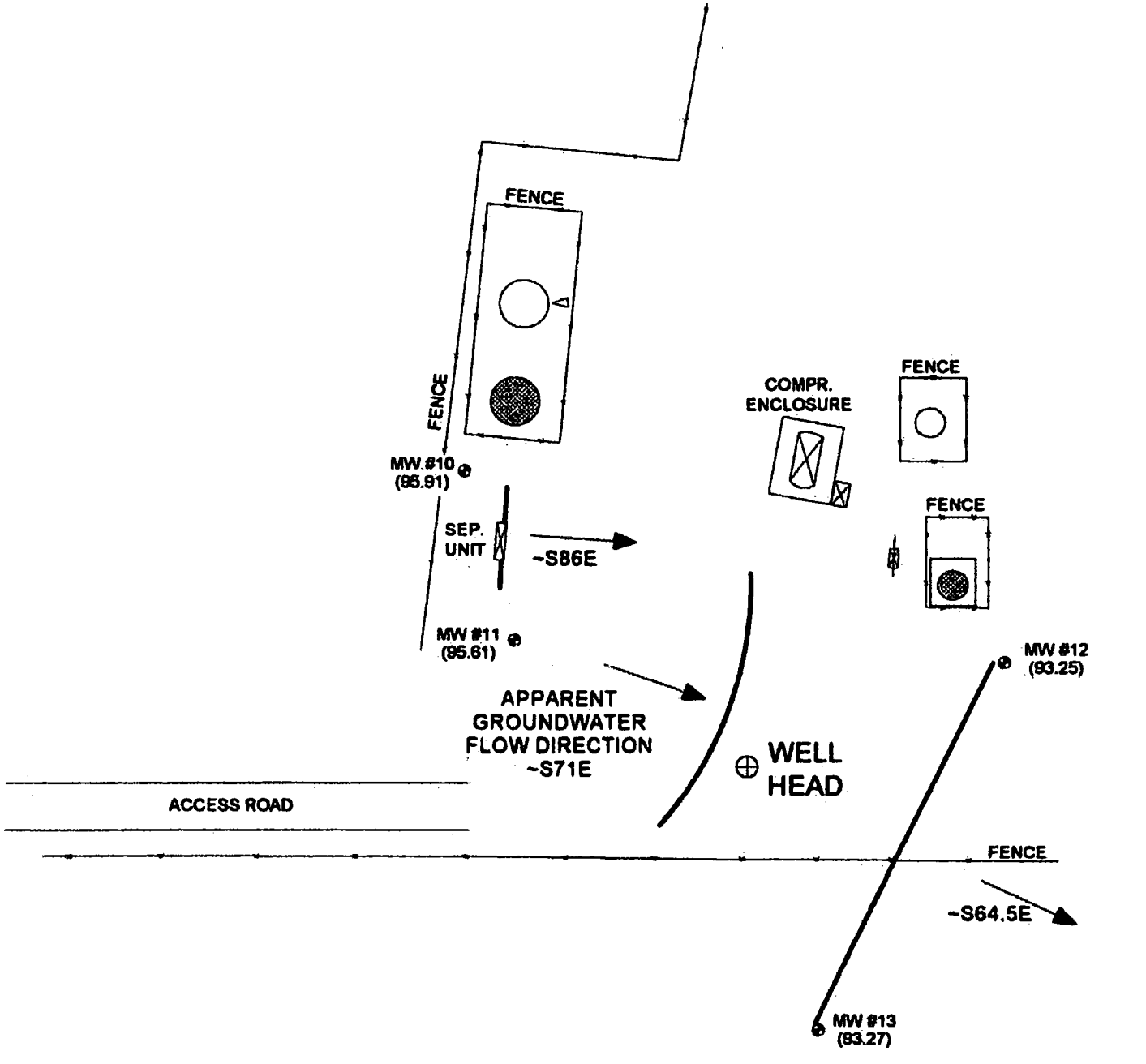
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0105045-05A	114	98.3	105
0105046-05A	93.6	101	95.5
0105046-05AMS	93.7	104	94
0105046-05AMSD	92.5	103	94
0105046-19A	93.6	98.3	95.7
0105047-01A	94.6	102	96.4
0105047-02A	92.9	98.4	94.3
0105047-03A	95	102	96.1
0105047-04A	94	101	95.8
0105049-01A	93.3	102	94
0105049-02A	95.3	101	96.8
0105049-03A	88.2	96.6	89.8
0105049-04A	91.9	102	92.7
0105049-05A	94.1	103	95.3
0105051-02A	94.8	99.3	96.2
0105051-03A	94.5	102	96.4
0105052-01A	94.9	102	96.4
0105052-02A	93.4	104	94.5
0105053-01A	93.2	107	94.4
CCV1 BTEX_01052	93.5	104	94.6
CCV2 BTEX_01052	93.2	100	93.5
CCV3 BTEX_01052	93.3	104	94.4
LCS WATER	93.5	105	93.9
MB1	93.5	104	95

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	70-130
4BCBZ	=	4-Bromochlorobenzene	70-130
FLBZ	=	Fluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

FIGURE 2
(2nd 1/4, 2002)



	Top of Well Elevation
MW #10	(103.50)
MW #11	(102.44)
MW #12	(101.68)
MW #13	(100.31)

MW #10 (95.91) — Groundwater Elevation as of 05/29/02

1 INCH = 50 FT.

0 50 100 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGEFINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION COMPANY

LEEPER GAS COM # 1

NW/4 SW/4 SEC. 34, T32N, R10W

SAN JUAN COUNTY, NEW MEXICO

BLAGG ENGINEERING, INC.

CONSULTING PETROLEUM / RECLAMATION SERVICES

P.O. BOX 87

BLOOMFIELD, NEW MEXICO 87413

PHONE: (505) 632-1199

PROJECT: MW SAMPLING

DRAWN BY: NJV

FILENAME: 05-29-02-GW.SKF

REVISED: 08/28/02 NJV

GROUNDWATER CONTOUR MAP

05/02

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO **CHAIN-OF-CUSTODY # :** 11771

LOCATION : LEEPER GC # 1 **LABORATORY (S) USED :** ON - SITE TECH.

Date : May 29, 2002 **SAMPLER :** N J V

Filename : 05-29-02.WK4 **PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
10	103.50	95.91	7.59	19.90	1120	7.15	1,100	6.00	-
11	102.44	95.61	6.83	20.40	1155	7.00	1,000	6.75	-
12	101.68	93.25	8.43	19.70	-	-	-	-	-
13	100.31	93.27	7.04	20.40	1035	7.25	1,100	6.50	-

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:

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 ".

Excellent recovery in all MW 's sampled . Collected BTEX from all MW 's listed above except MW # 12 .

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ANALYTICAL REPORT

Date: *18-Jun-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC#1
Work Order:	0205047	**Client Sample ID:**	MW-10
Lab ID:	0205047-02A **Matrix:** AQUEOUS	**Collection Date:**	05/29/2002 11:20:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11771

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DWC**
Benzene	14	0.5		µg/L	1	06/11/2002
Toluene	0.9	0.5		µg/L	1	06/11/2002
Ethylbenzene	7.2	0.5		µg/L	1	06/11/2002
m,p-Xylene	41	1		µg/L	1	06/11/2002
o-Xylene	ND	0.5		µg/L	1	06/11/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above quantitation range
Surr - Surrogate

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ANALYTICAL REPORT

Date: *18-Jun-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC#1
Work Order:	0205047	**Client Sample ID:**	MW-11
Lab ID:	0205047-03A **Matrix:** AQUEOUS	**Collection Date:**	05/29/2002 11:55:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11771

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DWC**
Benzene	2.8	0.5		µg/L	1	06/11/2002
Toluene	ND	0.5		µg/L	1	06/11/2002
Ethylbenzene	ND	0.5		µg/L	1	06/11/2002
m,p-Xylene	ND	1		µg/L	1	06/11/2002
o-Xylene	ND	0.5		µg/L	1	06/11/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above quantitation range
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ANALYTICAL REPORT

Date: *18-Jun-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC#1
Work Order:	0205047	**Client Sample ID:**	MW-13
Lab ID:	0205047-01A **Matrix:** AQUEOUS	**Collection Date:**	05/29/2002 10:35:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11771

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **DWC**
Benzene	ND	0.5		µg/L	1	06/11/2002
Toluene	ND	0.5		µg/L	1	06/11/2002
Ethylbenzene	ND	0.5		µg/L	1	06/11/2002
m,p-Xylene	2.7	1		µg/L	1	06/11/2002
o-Xylene	ND	0.5		µg/L	1	06/11/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
F - Value above quantitation range
Surr. - Surrogate

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CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

612 E. Murray Dr • P.O. Box 2606 • Farmington, NM 87499
LAB. (505) 325-5667 • FAX: (505) 327-1496

Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name		REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.
PROJECT LOCATION:		Number of Containers	ANALYSIS REQUESTED
SAMPLER'S SIGNATURE:			

SAMPLE IDENTIFICATION	SAMPLE DATE	TIME	MATRIX	PRES.	LAB ID

Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush ☐ 24-48 Hours ☐ 10 Working Days ☐ By Date ☐	

Authorized by: _____ Date _____
(Client Signature Must Accompany Request)

Special Instructions / Remarks:

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

On Site Technologies, LTD.

Date: *18-Jun-02*

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT
Method Blank

Sample ID: **MB_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**

Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51629**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.5									
Ethylbenzene	ND	0.5									
m,p-Xylene	.1219	1									J
o-Xylene	.0438	0.5									J
Toluene	.1198	0.5									J

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

On Site Technologies, LTD.

Date: *18-Jun-02*

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID: **0206002-01AMS** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51630**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	224.3	2.5	200	32.2	96.1%	70	130				
Ethylbenzene	198.9	2.5	200	2.346	98.3%	70	130				
m,p-Xylene	413.5	5	400	24	97.4%	70	130				
o-Xylene	197.2	2.5	200	5.974	95.6%	70	130				
Toluene	209.4	2.5	200	18.41	95.5%	70	130				

Sample ID: **0206002-01AMSD** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51631**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	221.4	2.5	200	32.2	94.6%	70	130	224.3	1.3%	15	
Ethylbenzene	196	2.5	200	2.346	96.8%	70	130	198.9	1.5%	15	
m,p-Xylene	407.2	5	400	24	95.8%	70	130	413.5	1.5%	15	
o-Xylene	194.9	2.5	200	5.974	94.5%	70	130	197.2	1.2%	15	
Toluene	206.3	2.5	200	18.41	93.9%	70	130	209.4	1.5%	15	

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

On Site Technologies, LTD.

Date: *18-Jun-02*

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**

Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.31	0.5	40	0	93.3%	80	120				
Ethylbenzene	38.48	0.5	40	0	96.2%	80	120				
m,p-Xylene	76.48	1	80	0.1219	95.4%	80	120				
o-Xylene	37.39	0.5	40	0.0438	93.4%	80	120				
Toluene	37.02	0.5	40	0.1198	92.2%	80	120				

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

On Site Technologies, LTD.

Date: *18-Jun-02*

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51622**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.82	0.5	20	0	94.1%	85	115				
Ethylbenzene	19.6	0.5	20	0	98.0%	85	115				
m,p-Xylene	38.8	1	40	0	97.0%	85	115				
o-Xylene	18.88	0.5	20	0	94.4%	85	115				
Toluene	18.74	0.5	20	0	93.7%	85	115				
1,4-Difluorobenzene	106.6	0	110	0	96.9%	70	130				
4-Bromochlorobenzene	108.7	0	110	0	98.9%	70	130				
Fluorobenzene	108	0	110	0	98.2%	70	130				

Sample ID: **CCV2_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51623**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.1	0.5	20	0	95.5%	85	115				
Ethylbenzene	19.58	0.5	20	0	97.9%	85	115				
m,p-Xylene	39.22	1	40	0	98.1%	85	115				
o-Xylene	19.06	0.5	20	0	95.3%	85	115				
Toluene	18.9	0.5	20	0	94.5%	85	115				
1,4-Difluorobenzene	107.1	0	110	0	97.4%	70	130				
4-Bromochlorobenzene	122.2	0	110	0	111.1%	70	130				
Fluorobenzene	108.6	0	110	0	98.8%	70	130				

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

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV3_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/11/2002** Prep Date: **06/11/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51624**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	38.56	0.5	40	0	96.4%	85	115				
Ethylbenzene	39.34	0.5	40	0	98.3%	85	115				
m,p-Xylene	77.76	1	80	0	97.2%	85	115				
o-Xylene	38.17	0.5	40	0	95.4%	85	115				
Toluene	38.04	0.5	40	0	95.1%	85	115				
1,4-Difluorobenzene	106.2	0	110	0	96.6%	70	130				
4-Bromochlorobenzene	117.2	0	110	0	106.6%	70	130				
Fluorobenzene	107.8	0	110	0	98.0%	70	130				

Sample ID: **CCV4_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/12/2002** Prep Date: **06/12/2002**
Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.76	0.5	20	0	93.8%	85	115				
Ethylbenzene	19.45	0.5	20	0	97.3%	85	115				
m,p-Xylene	38.91	1	40	0	97.3%	85	115				
o-Xylene	18.83	0.5	20	0	94.2%	85	115				
Toluene	18.61	0.5	20	0	93.0%	85	115				
1,4-Difluorobenzene	107.8	0	110	0	98.0%	70	130				
4-Bromochlorobenzene	108.9	0	110	0	99.0%	70	130				
Fluorobenzene	109.3	0	110	0	99.4%	70	130				

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

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV5_020611** Batch ID: **GC-1_020610** Test Code: **SW8021B** Units: **µg/L** Analysis Date: **06/12/2002** Prep Date: **06/12/2002**

Client ID: **0205047** Run ID: **GC-1_020610A** SeqNo: **51626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.63	0.5	20	0	93.2%	85	115				
Ethylbenzene	18.96	0.5	20	0	94.8%	85	115				
m,p-Xylene	37.88	1	40	0	94.7%	85	115				
o-Xylene	18.32	0.5	20	0	91.6%	85	115				
Toluene	18.22	0.5	20	0	91.1%	85	115				
1,4-Difluorobenzene	107.4	0	110	0	97.7%	70	130				
4-Bromochlorobenzene	119.1	0	110	0	108.3%	70	130				
Fluorobenzene	109.6	0	110	0	99.6%	70	130				

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

On Site Technologies, LTD.

Date: 18-Jun-02

CLIENT: Blagg Engineering
Work Order: 0205047
Project: BP - Leeper GC #1
Test No: SW8021B

QC SUMMARY REPORT
SURROGATE RECOVERIES

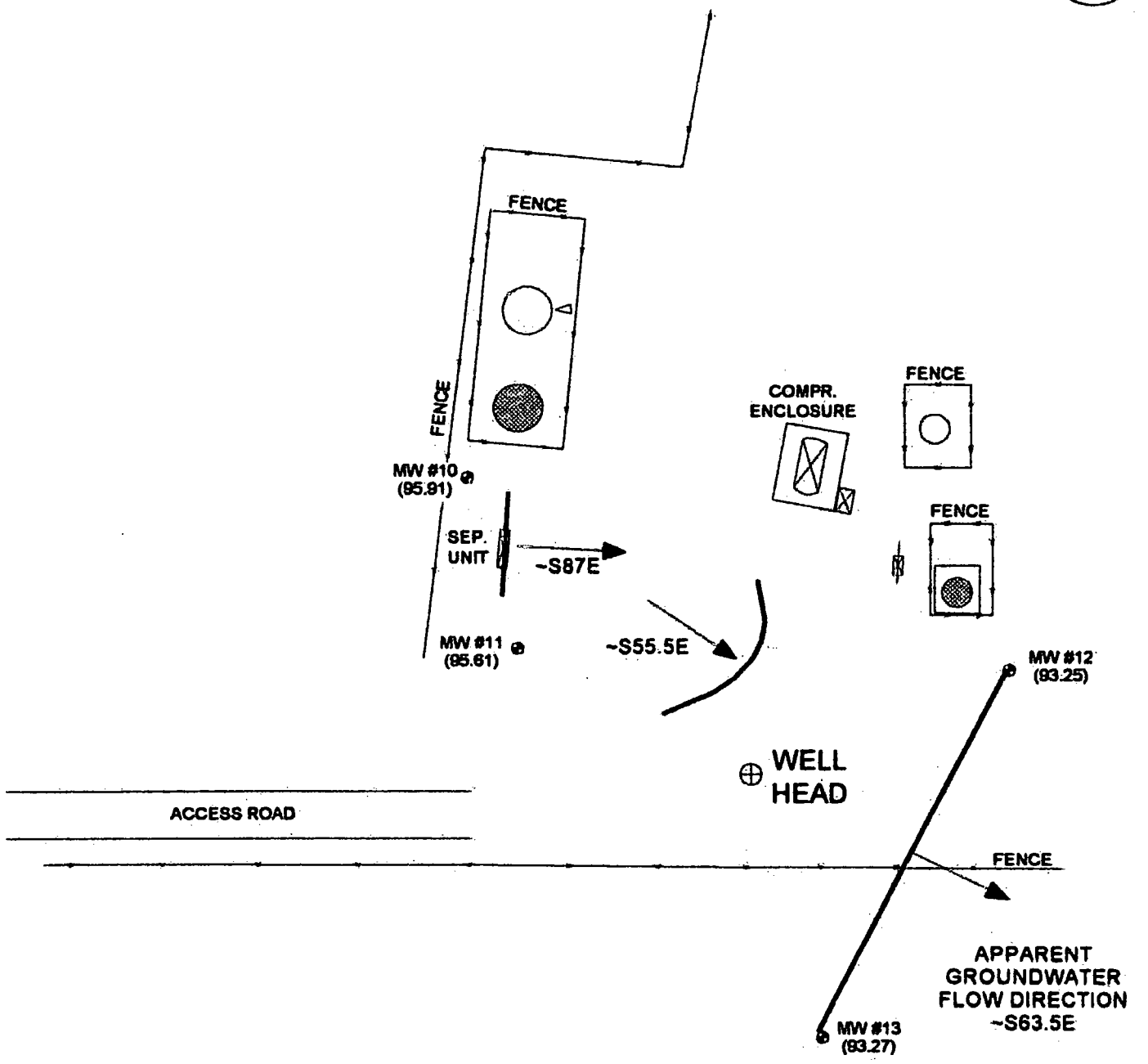
Aromatic Volatiles by GC/PID

Sample ID	14FBZ	4BCBZ	FLBZ
0205047-01A	97.8	108	99.6
0205047-02A	95.9	111	98
0205047-03A	97.2	110	99
0205049-01A	98	117	99.7
0205049-02A	96.9	105	99.1
0206001-01A	95.7	105	97.5
0206002-01A	96.4	105	98.4
0206002-01AMS	95.8	115	97.7
0206002-01AMSD	95.9	112	97.4
0206012-01A	96	103	98.4
0206012-02A	97.8	102	99.7
0206012-03A	97.8	107	100
0206013-01A	97.8	106	99
0206014-01A	96.7	106	98.6
0206014-02A	97.1	106	99.9
0206014-03A	98.2	107	101
CCV1_020611	96.9	98.8	98.2
CCV2_020611	97.4	111	98.8
CCV3_020611	96.6	106	98
CCV4_020611	98	99	99.4
CCV5_020611	97.6	108	99.6
LCS_020611	96.9	103	98.1
MB_020611	98.4	105	99.5

Acronym		Surrogate	QC Limits
14FBZ	=	1,4-Difluorobenzene	70-130
4BCBZ	=	4-Bromochlorobenzene	70-130
FLBZ	=	Fluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

FIGURE 3
(3rd 1/4, 2002)



	Top of Well Elevation
MW #10	(103.50)
MW #11	(102.44)
MW #12	(101.68)
MW #13	(100.31)

⊕ MW #10 (94.88) — Groundwater Elevation as of 08/23/02.

1 INCH = 50 FT.

0 — 50 — 100 FT.

MONITOR WELL LOCATIONS ARE ONLY AS ACCURATE AS THE INSTRUMENTS USED IN OBTAINING THE FOOTAGE AND BEARING FROM THE WELL HEAD (BRUNTON COMPASS AND LASER RANGEFINDER). ALL OTHER STRUCTURES DISPLAYED ON THE SITE MAP ARE SOLELY FOR REFERENCE AND MAY NOT BE TO SCALE.

BP AMERICA PRODUCTION COMPANY LEEPER GAS COM # 1 NW/4 SW/4 SEC. 34, T32N, R10W SAN JUAN COUNTY, NEW MEXICO	BLAGG ENGINEERING, INC. CONSULTING PETROLEUM / RECLAMATION SERVICES P.O. BOX 87 BLOOMFIELD, NEW MEXICO 87413 PHONE: (505) 632-1199	PROJECT: MW SAMPLING DRAWN BY: NJV FILENAME: 08-23-02-GW.SKF REVISED: 08/28/02 NJV	GROUNDWATER CONTOUR MAP 08/02

BLAGG ENGINEERING, INC.

MONITOR WELL SAMPLING DATA

CLIENT : BP AMOCO **CHAIN-OF-CUSTODY # :** 11997

LOCATION : LEEPER GC # 1 **LABORATORY (S) USED :** ON - SITE TECH.

Date : August 23, 2002 **SAMPLER :** N J V

Filename : 08-23-02.WK4 **PROJECT MANAGER :** J C B

WELL #	WELL ELEV. (ft)	WATER ELEV. (ft)	DEPTH TO WATER (ft)	TOTAL DEPTH (ft)	SAMPLING TIME	pH	CONDUCT (umhos)	VOLUME PURGED (gal.)	FREE PRODUCT (ft)
10	103.50	94.98	8.52	19.90	0935	6.90	900	5.50	-
11	102.44	94.72	7.72	20.40	6.85	6.85	800	6.25	-
12	101.68	92.59	9.09	19.70	-	-	-	-	-
13	100.31	92.57	7.74	20.40	0820	7.20	900	6.25	-

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:

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 ".

Excellent recovery in all MW 's sampled . Collected BTEX from all MW 's listed above except MW # 12 .

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ANALYTICAL REPORT

Date: *30-Aug-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC #1
Work Order:	0208016	**Client Sample ID:**	MW #10
Lab ID:	0208016-01A **Matrix:** AQUEOUS	**Collection Date:**	08/23/2002 9:35:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11997

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HNR**
Benzene	ND	0.5		µg/L	1	08/28/2002
Toluene	0.6	0.5		µg/L	1	08/28/2002
Ethylbenzene	ND	0.5		µg/L	1	08/28/2002
m,p-Xylene	ND	1		µg/L	1	08/28/2002
o-Xylene	0.6	0.5		µg/L	1	08/28/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: *30-Aug-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC #1
Work Order:	0208016	**Client Sample ID:**	MW #11
Lab ID:	0208016-02A **Matrix:** AQUEOUS	**Collection Date:**	08/23/2002 9:05:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11997

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HNR**
Benzene	1.6	0.5		µg/L	1	08/28/2002
Toluene	ND	0.5		µg/L	1	08/28/2002
Ethylbenzene	ND	0.5		µg/L	1	08/28/2002
m,p-Xylene	ND	1		µg/L	1	08/28/2002
o-Xylene	ND	0.5		µg/L	1	08/28/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above quantitation range
Surr: - Surrogate

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ANALYTICAL REPORT

Date: *30-Aug-02*

Client:	Blagg Engineering	**Client Sample Info:**	BP - Leeper GC #1
Work Order:	0208016	**Client Sample ID:**	MW #13
Lab ID:	0208016-03A **Matrix:** AQUEOUS	**Collection Date:**	08/23/2002 8:20:00 AM
Project:	BP - Leeper GC #1	**COC Record:**	11997

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		**SW8021B**				Analyst: **HNR**
Benzene	ND	0.5		µg/L	1	08/28/2002
Toluene	ND	0.5		µg/L	1	08/28/2002
Ethylbenzene	ND	0.5		µg/L	1	08/28/2002
m,p-Xylene	ND	1		µg/L	1	08/28/2002
o-Xylene	ND	0.5		µg/L	1	08/28/2002

Qualifiers:

PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
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R - RPD outside accepted precision limits
E - Value above quantitation range
Surr - Surrogate