

3R - 83

REPORTS

DATE:

5/12/2003



RECEIVED

May 12, 2003

Bill Olsen,
NMOCD,
1220 South St. Francis Drive,
Santa Fe, NM 87505

MAY 15 2003

ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

RE: Farmington B Com 1

On behalf of ConocoPhillips **Souder, Miller and Associates**, is submitting the enclosed Pit Remediation and Closure Report, for the Farmington B Com 1.

If there are any questions or concerns on this matter, feel free to contact me at (505) 325-5667.
Thank you for your time and considerations.

Respectfully submitted,

John Hagstrom
Environmental Technician
Souder Miller and Associates

CC:

Neal Goates, RM&R Site Manager, ConocoPhillips, PO Box 2197, Houston, TX 77252-2197
Denny Foust, New Mexico Oil Conservation Division, 1000 Rio Brazos, Aztec, NM 87410
Bill Liess, BLM, 1235 La Plata Hwy., Farmington, NM 87401
Michael Nelson, ConocoPhillips, PO Box 2197, Houston, TX 77252-2197
File

Tel. (505) 325-5667

Fax (505) 327-1496

P. O. BOX 2606 • FARMINGTON, NM 87499

-TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT-

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

(Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: ConocoPhillips

Telephone: (505) 599-3400

Address: 5525 US Hwy. 64, Farmington, NM 87401

Well Name: Farmington B Com 1

Location: Unit or Qtr/Qtr Sec: Unit H Sec 15 T 29N R 13W County San Juan, NM

Pit Type: Separator X Dehydrator _____ Other Area 3

Land Type: BLM _____, State _____, Fee X Other _____

Pit Location: Pit dimensions: length 30', width 25', depth 2.4'

(Attach diagram)

Reference: wellhead X, other _____

Footage from reference: Approximately 35'

Direction from reference: Approximately 80 Degrees East of North

Depth To Ground Water	Less than 50 feet	Yes	(20 points)
(Vertical distance from	50 feet to 99 feet		(10 points)
contaminants to seasonal	Greater than 100 feet		(0 points) <u>20</u>
high water elevation of			
ground water.)			

Wellhead Protection Area:	NO	(20 points)
(Less than 200 feet from a private		(0 points) <u>0</u>
domestic water source, or; less than		
1000 feet from all other water sources.)		

Distance To Surface Water:	Less than 200 feet		(20 points)
(Horizontal distance to perennial	200 feet to 1000 feet	Yes	(10 points)
lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet		(0 points) <u>10</u>
irrigation canals and ditches.)			

RANKING SCORE (TOTAL POINTS): 30

Remediation Location: Onsite ☒ Offsite: ☒(i.e. landfarmed onsite,
name and location of
offsite facility)Refer to Investigation and Remediation Summary, Conoco Location, Farmington B Com #1. On Site Technologies, 4/16/97.

General Description of Remedial Action: The pit (Area 3) was excavated and approximately 65 cubic yards of contaminated soil was removed from the site, and disposed of properly. The excavation was backfilled with clean imported material. Monitoring wells were installed to monitor ground water quality. In addition to the Sep pit, Area 1 and Area 2 were contaminated by overfill from a production tank, approximately 580 cubic yards of soil were excavated from these two areas. In addition to the overfill an old pit was uncovered during excavation of Area 1. Refer to Attached BTEX Analytical Summary, Table 2 for last four quarters of ground water sample results. Attached is the Sampling for Closure Laboratory Package conducted on 3/30/03.

Ground Water Encountered: Yes ☐ Yes: ☒ Depth: Approximately 4.0 feet.Final Pit:
Closure Sampling:
(if multiple samples,
attach sample results
and diagram of sample
locations and depths)Sample location: Refer to Investigation and Remediation Summary, Conoco Location, Farmington B Com #1. On Site Technologies, 4/16/97. Refer to Attached BTEX Analytical Summary, Table 2 for last four quarters of ground water sample results. Sampling for Closure Laboratory package is attached.

Sample depth _____

Sample Date _____ Sample time _____

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Ground Water Sample:

Field headspace(ppm) _____

TPH _____

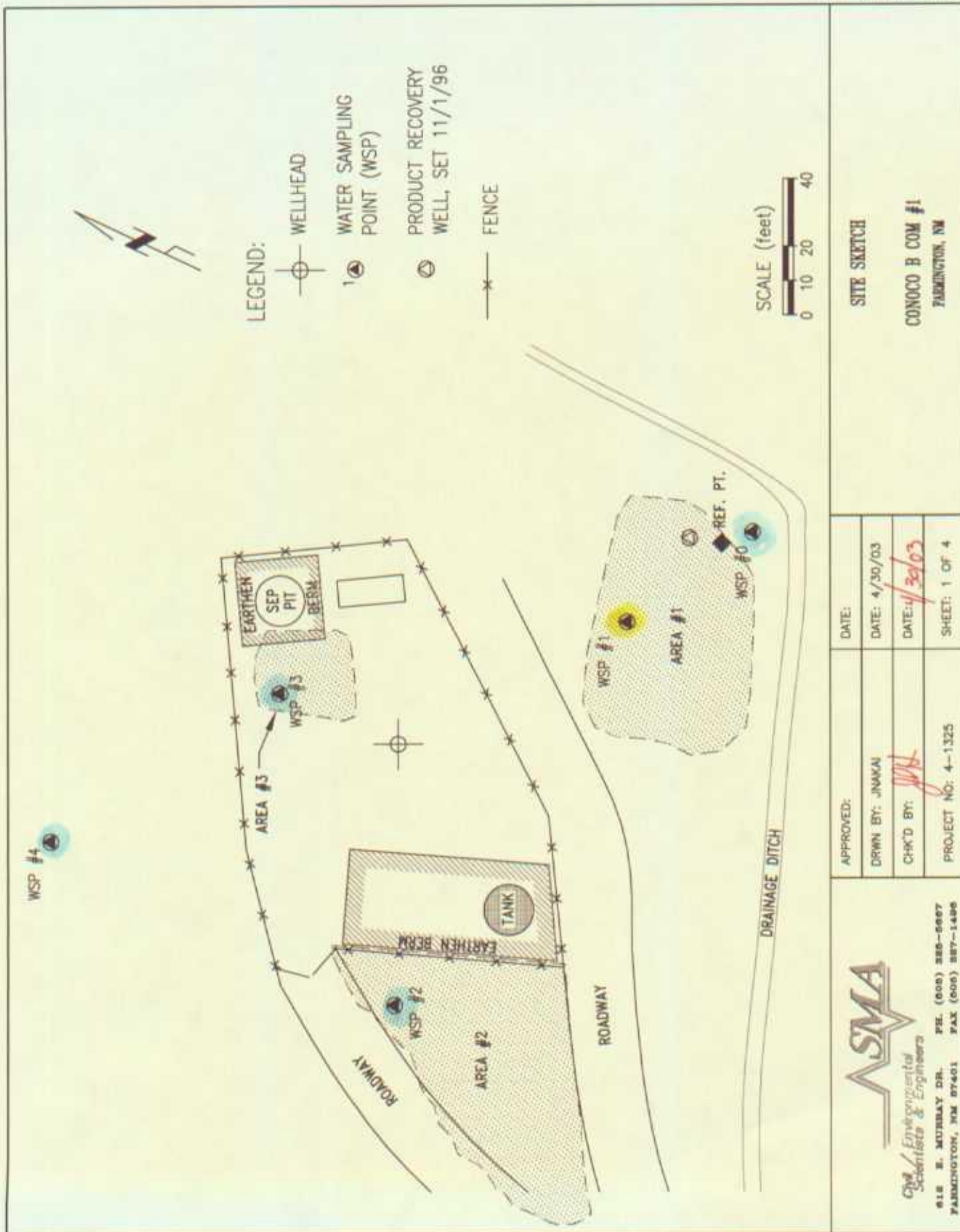
Yes ☒ No ☐ (If yes, attach sample results)

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Date: 5/6/03Signature Neal Goates

Printed Name: Neal Goates

Title: RM&R Site Manager



*Environmental
Scientists & Engineers*

618 E. MURRAY DR. PH. (606) 356-5667
FARMINGTON, NM 87401 FAX (606) 357-1486

APPROVED:

DRWN BY: JNAKAI

CHK'D BY:

PROJECT NO: 4-1325

DATE:

DATE: 4/30/03

DATE: 4/30/03

SHEET: 1 OF 4

SITE SKETCH

CONOCO B COM #1
FARMINGTON, NM

Table 2
 BTEX Analytical Summary
 Farmington B Com 1
 Unit H, Sec. 15, T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
03/18/97	13939	WSP-0	On Site Lab.	<0.3	<0.2	<0.2	0.5
06/11/97	14902			BDL	0.2	BDL	BDL
09/16/97	16205			BDL	BDL	BDL	BDL
12/5/97	17048			BDL	BDL	BDL	0.2
3/12/98	9803040-01A			BDL	BDL	BDL	BDL
6/15/98	9806057-01A			BDL	BDL	BDL	BDL
9/15/98	9809034-01A			BDL	BDL	BDL	BDL
3/20/03	0303020-005A		iina ba Lab	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL: Below Detection Limits

Table 2
 BTEX Analytical Summary
 Farmington B Com 1
 Unit H, Sec. 15, T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
03/18/97	13935	WSP-1	On Site Lab	557.1	146.3	555.1	3572.1
06/11/97	14903			155.0	22.0	184.0	1457.0
09/17/97	16206			175.0	23.0	179.0	1236.0
12/05/97	17049			202.0	22.0	164.0	1196.0
3/12/98	9803040-02A			110.0	25.0	150.0	1290.0
6/15/98	9806057-02A			110.0	12.0	170.0	1160.0
9/15/98	9809034-02A			69.0	13.0	150.0	1100.0
12/21/98	9812048-02A			86.0	55.0	170.0	1040.0
3/2/99	9903008-01A			45.0	BDL	130.0	720.0
6/7/99	9906022-01A			78.0	8.5	260.0	1670.0
9/14/99	9909047-01A			56.0	36.0	190.0	1170.0
12/13/99	9912016-01A			31.0	3.1	110.0	840.0
3/13/00	0003019-01A			44.0	BDL	140.0	910.0
6/5/00	0006010-01A			30.0	7.6	65.0	399.0
9/11/00	009018-01A			23.0	BDL	100.0	652.0
1/23/01	0101031-01A			24.0	BDL	31.0	312.0
3/20/01	0103017-01A			10.0	BDL	85.0	418.0
6/14/01	0106015-01A			24.0	BDL	78.0	434.0
9/18/01	0109020-01A			14.0	BDL	44.0	336.0
12/13/01	0112014-01A			3.6	BDL	24.0	231.0
3/12/02	0203023-01A			1.8	BDL	19	135
6/19/02	0206028-01A			3.2	BDL	26.0	200.0
9/17/02	0209017-01A			3.3	BDL	23.0	186.0
3/20/03	0303020-004A		ina ba lab	2.8	12.0	87.0	9.8
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL: Below Detection Levels

Table 2

BTEX Analytical Summary

Farmington B Com 1

Unit H, Sec. 15, T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
01/30/97	13563	WSP-2	On Site Lab.	22.5	23.0	23.7	108.0
03/18/97	13936			25.8	13.4	11.8	53.8
06/11/97	14904			10.1	5.3	9.2	22.7
09/16/97	16208			3.9	1.0	4.5	14.8
12/05/97	17050			1.6	1.0	1.4	3.6
3/12/98	9803040-03A			0.9	BDL	1.0	3.2
6/15/98	9806057-03A			BDL	BDL	BDL	1.1
9/15/98	9809034-03A			BDL	BDL	BDL	BDL
3/20/03	0303020-002A	ina ba Lab		BDL	BDL	BDL	BDL
01/30/97	13562	WSP-3	On Site Lab.	506.8	22.0	67.8	607.1
03/18/97	13937			35.8	1.9	1.1	7.2
06/12/97	14906			8.5	0.5	1.5	1.4
09/17/97	16211			ND	0.7	0.4	0.9
12/05/97	17051			1.6	BDL	BDL	BDL
3/12/98	9803040-04A			BDL	BDL	BDL	0.5
6/15/98	9806057-04A			BDL	BDL	BDL	BDL
9/15/98	9809034-04A			BDL	BDL	BDL	BDL
3/20/03	0303020-003A	ina ba Lab		BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL: Below Detection Limits

Table 2
BTEX Analytical Summary
Farmington B Com 1
Unit H, Sec. 15, T29N, R13W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)			
				Benzene	Toluene	Ethylbenzene	Total Xylene
03/18/97	13938	WSP-4	On Site Lab.	<0.2	27.1	<0.2	1.0
06/11/97	14905			BDL	0.2	BDL	0.4
09/16/97	16207			0.9	BDL	BDL	BDL
12/05/97	17052			BDL	BDL	BDL	BDL
3/12/98	9803040-05A			BDL	BDL	BDL	BDL
6/15/98	9806057-05A			BDL	BDL	BDL	BDL
9/15/98	9809034-05A			BDL	BDL	BDL	BDL
3/20/03	0303020-001A	ina ba Lab		BDL	BDL	BDL	BDL
12/21/98	9812048-01A	Piezometer	On Site Lab.	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0

BDL: Below Detection Limits

612 E. Murray Drive
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Off: (505) 327-1072
March 26, 2003

iiná bá

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Fax: (505) 327-1496

John Hagstrom
Souder, Miller & Associates
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87401

TEL: 505-325-1556
FAX 505-327-1496

RE: 4-1325; Farmington B Com 1

Order No.: 0303020

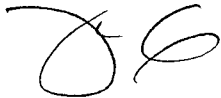
Dear John Hagstrom:

iiná bá, Ltd. received 5 samples on 3/20/2003 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these test results, please feel free to call.

Sincerely,



David Cox

612 E. Murray Drive
Farmington, NM 87401

Off: (505) 327-1072

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P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

iiná bá, Ltd.

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates
Project: 4-1325; Farmington B Com 1
Lab Order: 0303020

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s) or the quality control summary report(s).

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ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1
Lab ID: 0303020-001A

Client Sample Info: Farmington B Com 1
Client Sample ID: WSP4
Collection Date: 3/20/2003 1:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	3/24/2003
Ethylbenzene	ND	0.5		µg/L	1	3/24/2003
m,p-Xylene	ND	1.0		µg/L	1	3/24/2003
o-Xylene	ND	0.5		µg/L	1	3/24/2003
Toluene	ND	0.5		µg/L	1	3/24/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 1 of 5

612 E. Murray Drive
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ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1
Lab ID: 0303020-002A

Client Sample Info: Farmington B Com 1
Client Sample ID: WSP2
Collection Date: 3/20/2003 1:20:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	3/24/2003
Ethylbenzene	ND	0.5		µg/L	1	3/24/2003
m,p-Xylene	ND	1.0		µg/L	1	3/24/2003
o-Xylene	ND	0.5		µg/L	1	3/24/2003
Toluene	ND	0.5		µg/L	1	3/24/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

Page 2 of 5

612 E. Murray Drive
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ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates

Client Sample Info: Farmington B Com 1

Work Order: 0303020

Client Sample ID: WSP3

Project: 4-1325; Farmington B Com 1

Collection Date: 3/20/2003 1:40:00 PM

Lab ID: 0303020-003A

Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	3/24/2003
Ethylbenzene	ND	0.5		µg/L	1	3/24/2003
m,p-Xylene	ND	1.0		µg/L	1	3/24/2003
o-Xylene	ND	0.5		µg/L	1	3/24/2003
Toluene	ND	0.5		µg/L	1	3/24/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

R - RPD outside accepted precision limits

B - Analyte detected in the associated Method Blank

E - Value above Upper Quantitation Limit - UQL

* - Value exceeds Maximum Contaminant Level

Page 3 of 5

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87401

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P.O. Box 2606
Farmington, NM 87499

Fax: (505) 327-1496

ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1
Lab ID: 0303020-004A

Client Sample Info: Farmington B Com 1
Client Sample ID: WSP1
Collection Date: 3/20/2003 2:00:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	2.8	0.5		µg/L	1	3/24/2003
Ethylbenzene	12	0.5		µg/L	1	3/24/2003
m,p-Xylene	87	1.0		µg/L	1	3/24/2003
o-Xylene	9.8	0.5		µg/L	1	3/24/2003
Toluene	ND	0.5		µg/L	1	3/24/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

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ANALYTICAL REPORT

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1
Lab ID: 0303020-005A

Client Sample Info: Farmington B Com 1
Client Sample ID: WSP0
Collection Date: 3/20/2003 2:15:00 PM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B		Analyst: JEM		
Benzene	ND	0.5		µg/L	1	3/24/2003
Ethylbenzene	ND	0.5		µg/L	1	3/24/2003
m,p-Xylene	ND	1.0		µg/L	1	3/24/2003
o-Xylene	ND	0.5		µg/L	1	3/24/2003
Toluene	ND	0.5		µg/L	1	3/24/2003

Qualifiers:

ND - Not Detected at the Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

liná bá, Ltd.

Sample Receipt Checklist

Client Name: **ONS1001**

Date and Time Received:

3/20/2003

Work Order Number: **0303020**

Received by: **DWC**

Checklist completed by:



03/20/03

Signature

Date

Reviewed by:



Initials

3/20/03

Date

Matrix:

Carrier name: John Hagstrom

Shipping container/cooler in good condition?

Yes ☒

No ☐

Not Present ☐

Custody seals intact on shipping container/cooler?

Yes ☐

No ☐

Not Present ☒

Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

Chain of custody present?

Yes ☒

No ☐

Chain of custody signed when relinquished and received?

Yes ☒

No ☐

Chain of custody agrees with sample labels?

Yes ☒

No ☐

Samples in proper container/bottle?

Yes ☒

No ☐

Sample containers intact?

Yes ☒

No ☐

Sufficient sample volume for indicated test?

Yes ☒

No ☐

All samples received within holding time?

Yes ☒

No ☐

Container/Temp Blank temperature in compliance?

Yes ☒

No ☐

Water - VOA vials have zero headspace?

No VOA vials submitted ☐

Yes ☒

No ☐

Water - pH acceptable upon receipt?

Yes ☒

No ☐

Adjusted? _____

Checked by: _____

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

Client contacted: _____

Date contacted: _____

Person contacted: _____

Contacted by: _____

Regarding: _____

Comments: _____

Corrective Action: _____

ina bá, Ltd.

Date: 26-Mar-03

CLIENT: Souder, Miller & Associates

Work Order: 0303020

Project: 4-1325; Farmington B Com 1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_030324	SampType: MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B						
Client ID: ZZZZZ		Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62966						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 0.50
 Ethylbenzene 0.50
 m,p-Xylene 1.0
 o-Xylene 0.50
 Toluene 0.50

J

Sample ID	LCS_030324	SampType: LCS	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B						
Client ID:	ZZZZZ	Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62965						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 39.48 0.50 40 0 98.7 88 110 0 0
 Ethylbenzene 39.63 0.50 40 0 99.1 90 110 0 0
 m,p-Xylene 80.82 1.0 80 0 101 86 110 0 0
 o-Xylene 40.52 0.50 40 0 101 89 110 0 0
 Toluene 39.88 0.50 40 0.0889 99.5 87 110 0 0

Sample ID	0303021-003AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B						
Client ID:	ZZZZZ	Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62967						
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene 222.8 2.5 200 53.02 84.9 84 106 0 0
 Ethylbenzene 233.1 2.5 200 41.16 96 84 111 0 0
 m,p-Xylene 586.8 5.0 400 211.4 93.8 80 118 0 0
 o-Xylene 194.1 2.5 200 2.287 95.9 83 108 0 0
 Toluene 209.1 2.5 200 10.1 99.5 86 105 0 0

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

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

B - Analyte detected in the associated Method Blank

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	0303021-003AMSD	SampleType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B					
Client ID: ZZZZZ		Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62968					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	214.7	2.5	200	53.02	80.8	80	106	222.8	3.72	5	
Ethylbenzene	225.4	2.5	200	41.16	92.1	82	108	233.1	3.35	5	
m,p-Xylene	566.8	5.0	400	211.4	88.8	80	113	586.8	3.48	5	
o-Xylene	187.9	2.5	200	2.287	92.8	82	105	194.1	3.27	4	
Toluene	198.6	2.5	200	10.1	94.3	83	105	209.1	5.14	5	R

Sample ID	CCV1_030324	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B					
Client ID: ZZZZZ		Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62961					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	20.29	0.50	20	0	101	85	115	0	0		
Ethylbenzene	20.34	0.50	20	0	102	85	115	0	0		
m,p-Xylene	40.45	1.0	40	0	101	85	115	0	0		
o-Xylene	20.84	0.50	20	0	104	85	115	0	0		
Toluene	20.41	0.50	20	0	102	85	115	0	0		

Sample ID	CCV2_030324	SampleType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B					
Client ID: ZZZZZ		Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62962					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	37.25	0.50	40	0	93.1	85	115	0	0		
Ethylbenzene	37.48	0.50	40	0	93.7	85	115	0	0		
m,p-Xylene	76.61	1.0	80	0	95.8	85	115	0	0		
o-Xylene	38.75	0.50	40	0	96.9	85	115	0	0		
Toluene	37.97	0.50	40	0	94.9	85	115	0	0		

Sample ID	CCV3_030324	SampleType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date: 3/24/2003	Run ID: GC-1_030324B					
Client ID: ZZZZZ		Batch ID: R4316	TestNo: SW8021B		Analysis Date: 3/24/2003	SeqNo: 62963					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	19.45	0.50	20	0	97.2	85	115	0	0		

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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0303020
Project: 4-1325; Farmington B Com 1

TestCode: BTEX_W

Sample ID	CCV3_030324	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	3/24/2003	Run ID:	GC-1_030324B
Client ID:	ZZZZ	Batch ID:	R4316	TestNo:	SW8021B			Analysis Date:	3/24/2003	SeqNo:	62963
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	21.03	0.50	20	0	105	85	115	0	0		
m,p-Xylene	39.79	1.0	40	0	99.5	85	115	0	0		
o-Xylene	20.06	0.50	20	0	100	85	115	0	0		
Toluene	19.71	0.50	20	0	98.5	85	115	0	0		

Sample ID	CCV4_030324	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	3/24/2003	Run ID:	GC-1_030324B
Client ID:	ZZZZ	Batch ID:	R4316	TestNo:	SW8021B			Analysis Date:	3/24/2003	SeqNo:	62964
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

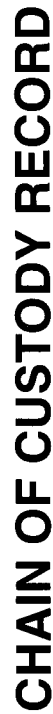
Benzene	19.54	0.50	20	0	97.7	85	115	0	0		
Ethylbenzene	19.51	0.50	20	0	97.5	85	115	0	0		
m,p-Xylene	39.45	1.0	40	0	98.6	85	115	0	0		
o-Xylene	19.97	0.50	20	0	99.8	85	115	0	0		
Toluene	19.57	0.50	20	0	97.8	85	115	0	0		

Qualifiers:

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

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

B - Analyte detected in the associated Method Blank



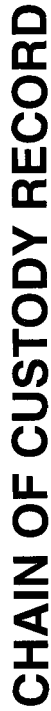
Date: _____

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[illegible]

Distribution:	White – On Site	Yellow – LAB	Pink – Sampler	Goldenrod – Client
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Date: _____

Page _____ of _____

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[illegible]

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