

3R - 097

**ANNUAL
MONITORING
REPORT**

06/13/2005



RECEIVED 2005
320097

ConocoPhillips
Attn: Mr. Neal Goates, RM&R Site Manager
Threadneedle Office
PO Box 2197
Houston, TX 77252-2197

JUN 13 2005
Oil Conservation Division
Environmental Bureau

RE: 2004 Ground Water Report
ConocoPhillips Location: Shepard & Kelsey #1
Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM

Project: 5114224

Dear Mr. Goates,

The following report summarizes the ground water remediation and monitoring activities conducted by Souder Miller and Associates (SMA) on behalf of ConocoPhillips at the Shepard and Kelsey well location near Bloomfield, NM. This report covers the calendar year of 2004, and follows the format outlined in the *Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico* (here after known as the monitoring plan), submitted to the New Mexico Oil Conservation Division (NMOCD) on October 15, 1998.

Summary of 2004 Activities:

Ground water sampling of SB-12 was conducted during the months of January and April of 2004. Per a request from ConocoPhillips, sampling was changed to a once a year schedule after the April 2004 sampling event.

Sparge point SB 12 continues to have benzene, toluene, ethyl benzene, and xylenes (BTEX) contamination above New Mexico Water Quality Control Commission (NMWQCC) standards.

Sampling

In accordance with the monitoring plan, water levels were measured in the monitoring wells prior to purging and sampling. Samples were collected, preserved and transported in accordance with Environmental Protection Agency prescribed procedures and proper chain-of-custody protocol was followed. The laboratory analyses ordered followed the approved Conoco Ground Water Plan.

Table 1 summarizes the monitoring well data and water levels measured during previous and current sampling events. Table 2 summarizes the laboratory results for BTEX compounds from all water sampling completed at the referenced site.

Copies of all laboratory reports for the calendar year 2004 along with all laboratory QA/QC documentation and chains-of-custody, are attached with this report.

Conclusion

The following conclusion is based on the 2004 ground water monitoring results associated with a former production pit at the Shepard & Kelsey #1 well location:

1. Sparge point SB 12 continues to show BTEX contamination above the NMWQCC standards.

Recommendations

1. Depending on the direction from the NMOCD more aggressive remediation efforts may be necessary to meet NMWQCC standards.
2. When sampling requirements have been completed, prepare a Final Pit Closure Form to be submitted to NMOCD for approval.
3. Following NMOCD's approval for closure, plug and abandon all monitoring wells in accordance with NMOCD regulations.

Limitations and Closure:

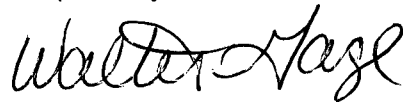
This annual ground water report documents the results of ground water monitoring for the referenced ConocoPhillips well location during the calendar year 2004. This report follows the Comprehensive Ground Water Remediation and Long-Term Monitoring Plan for Conoco Locations in the San Juan Basin, New Mexico, dated October 15, 1997.

The scope of SMA's services consisted of project management, periodic ground water sampling and measurement of water levels, laboratory testing for ground water quality, and preparation of this annual report. All work has been performed in accordance with generally accepted professional practices in petroleum and environmental engineering, and hydrogeology.

Souder, Miller and Associates have prepared this document for the exclusive use of ConocoPhillips, as it pertains to the referenced well location operated by ConocoPhillips.

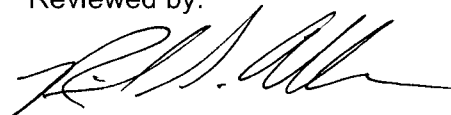
If there are any questions regarding this status report, please contact John Hagstrom, Walter Gage, or Reid Allan at Souder, Miller and Associates, (505) 325-5667. Thank you for your consideration.

Respectfully submitted,



Walter Gage
Geologist

Reviewed by:



Reid Allan
Senior Geologist

Souder Miller and Associates

Attachments: Table 1: Monitoring Well Details and Ground Water Levels Summary
Table 2: Ground Water BTEX Analytical Summary
Figure 1: Vicinity Map
Figure 2-Site Map
Figure 3: Potentiometric Surface Map-1/30/04
Figure 4: Potentiometric Surface Map-4/30/04
Laboratory Results, QA/QC, Chain of Custody

Acknowledgment:
CONOCOPHILLIPS, Inc.

Neal Amb / Site Manager
(Name/Title)
3/17/05
(Date)

WJG/wjg

References

On Site Technologies, Ltd., March 21, 1998, letter to Mr. C. John Coy, SHEAR Specialist, Conoco, Inc., Midland Division, regarding: *Monitoring Well Installation & Status of Sampling, Conoco Location, Shepard & Kelsey #1, Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

On Site Technologies, Ltd., February 1, 1998, letter to Ms. Shirley Ebert, SHEAR Specialist, Conoco, Inc., Midland Division, regarding: *1997 Annual Ground Water Report, Conoco Location, Shepard & Kelsey #1, Unit L, Sec. 29, T29N, R11W, NMPM, San Juan Co., NM.*

January 28, 2004

#5114224

Mr. William C. Olson
Environmental Bureau
Oil Conservation Division
New Mexico Energy, Minerals & Natural Resources Department
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: PLAN FOR FUTURE WORK, CONOCOPHILLIPS SHEPHARD & KELSEY #1

Dear Mr. Olson:

Souder, Miller & Associates (SMA) has prepared this letter on behalf of ConocoPhillips to confirm the results of the January 27, 2004 meeting between ConocoPhillips and the Oil Conservation Division (OCD). The meeting established a plan for future work on the ConocoPhillips Shephard & Kelsey #1 site. ConocoPhillips and SMA understand that the plan consists of:

1. Continue to sample impacted well SB-12 for benzene, toluene, ethylbenzene and total xylenes by EPA method 8020 until four quarters of water contaminant concentrations below New Mexico Water Quality Control Commission standards are achieved. Other site wells will be monitored in the final, fourth quarter to verify site closure.

If this is not OCD's understanding of the plan for future work, please inform me within 10 business days (505-473-9211, rsa@soudermiller.com). ConocoPhillips and SMA appreciated the opportunity to meet with you and establish a path towards closure for this project.

Sincerely,

SOUDER MILLER & ASSOCIATES

Reid S. Allan
Vice President/Senior Scientist

Cc: Mr. Neal Goates, ConocoPhillips

Souder, Miller and Associates
 Table 1
 Groundwater Level Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)	Relative Groundwater Elevation (ft)
MW-NE	100.0	5.42		4.0	06/12/96	2.54	97.46
					09/16/97	NM	
					12/02/97	2.31	97.69
					3/13/98	2.19	97.81
					6/9/98	2.12	97.81
					9/14/98	3.28	97.88
					6/14/01	6.4	93.60
					9/19/01	7.62	92.38
					12/13/01	6.86	93.14
					3/12/02	6.53	93.47
					6/19/02	7.4	92.6
					9/17/02	7.01	92.99
					1/2/03	NMW	
					3/20/03	6.01	93.99
					6/11/03	6.87	93.13
					10/6/03	6.84	93.16
					1/30/04	6.27	93.73
					4/26/04	6.01	93.99
DG 1	100.895	9.05		4.0	6/15/01	6.15	94.70
					9/19/01	6.57	94.33
					12/13/01	6.49	94.41
					3/12/02	6.23	94.67
					6/19/02	6.88	94.02
					9/17/02	6.75	94.15
					1/2/03	NMW	
					3/20/03	5.69	95.21
					6/11/03	6.75	94.15
					10/6/03	6.54	94.36
					1/30/04	5.95	94.95
					4/26/04	4.78	96.12

Souder, Miller and Associates
 Table 1
 Groundwater Level Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

Well Number	Top of Casing Elevation* (ft)	Total Depth of Well (ft)*	Well Type	Screen Interval (ft) (BGS)*	Sample Date	Depth to Groundwater (ft) (BTOC)*	Relative Groundwater Elevation (ft)
SB 12	99.01	11.31		4.0	6/14/01	6.9	92.11
					9/19/01	7.25	91.76
					12/13/01	6.39	92.62
					3/12/02	6.11	92.9
					6/19/02	6.76	92.25
					9/17/02	6.66	92.35
					1/2/03	NMW	
					3/20/03	5.53	93.48
					6/11/03	6.57	92.44
					10/6/03	6.43	92.58
					1/30/04	5.80	93.21
					4/26/04	5.61	93.40
UG 1	101.71	9.83		4.0	6/14/01	5.81	95.90
					3/12/02	5.62	96.09
					6/19/02	6.02	95.69
					9/17/02	5.94	95.77
					1/2/03	NMW	0
					3/20/03	4.87	96.84
					6/11/03	5.68	96.03
					10/6/03	5.74	95.97
					1/30/04	5.16	96.55
					4/26/04	5.08	96.63

Souder, Miller and Associates
 Table 1
 Groundwater Level Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

Well Number	Top of Casing Elevation (ft)	Total Depth of Well (ft)	Well Type	Screen Interval (ft) (BGS)	Sample Date	Depth to Groundwater (ft) (BTOC)	Relative Groundwater Elevation (ft)
UG 2	101.23	9.84		4.0	6/14/01	4.99	96.24
					3/12/02	6.19	95.04
					6/19/02	5.14	96.09
					9/17/02	5.09	96.14
					1/2/03	NMW	
					3/20/03	4.21	97.02
					6/11/03	4.91	96.32
					10/6/03	4.91	96.28
					1/30/04	4.45	96.78
					4/26/04	4.37	96.86
DG-MW	unknown	5.42		4.0	6/15/01	2.25	
					10/6/03	3.1	
					1/30/04	2.47	
					4/26/04	2.21	

BGS - approximate measurements taken as Below Ground Surface
 BTOC - Below Top of Casing
 NM - Not Measured

Souder, Miller and Associates
 Table 2
 BTEX Analytical Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)					Total BTEX
				Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX	
07/18/97	0396G01420	DG#1	IML	10.5	36.3	280.0	1077.6	1405.4	
06/15/01	0106018-01A	DG #1		BDL	BDL	54.0	285.0	339.0	
09/19/01	0109026-03A	DG#1		BDL	BDL	BDL	BDL	BDL	
12/13/01	0112015-03A	DG#1		BDL	BDL	BDL	BDL	BDL	
3/12/02	0203022-03A	DG#1		BDL	BDL	BDL	BDL	BDL	
6/19/02	0206030-02A	DG#1		BDL	BDL	BDL	BDL	BDL	
9/17/02	0209019-02A	DG#1		BDL	BDL	BDL	BDL	BDL	
3/20/03	0303021-004A	DG#1		BDL	BDL	BDL	BDL	BDL	
6/11/03	0306025-003A	DG#1		BDL	BDL	BDL	BDL	BDL	
10/6/03	031011-003	DG#1		BDL	BDL	BDL	BDL	BDL	
07/18/96	0369G01419	MW#1	IML	191.0	BDL	77.9	100.0	368.9	
03/20/97	14002	MW#1	On Site Lab.	< 0.2	< 0.2	< 0.2	0.2	0.2	
06/12/97	14941	MW#1	On Site Lab.	BDL	BDL	BDL	0.2	0.2	
09/16/97	*		NOT SAMPLED						
12/05/97	17002	MW#1	On Site Lab.	BDL	BDL	0.2	0.2	0.4	
3/13/98	9803055-01A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL	
6/9/98	9806032-1A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL	
9/14/98	9809030-01A	MW#1	On Site Lab.	BDL	BDL	BDL	BDL	BDL	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0		

BDL Below Detection Limits

Souder, Miller and Associates
 Table 2
 BTEX Analytical Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

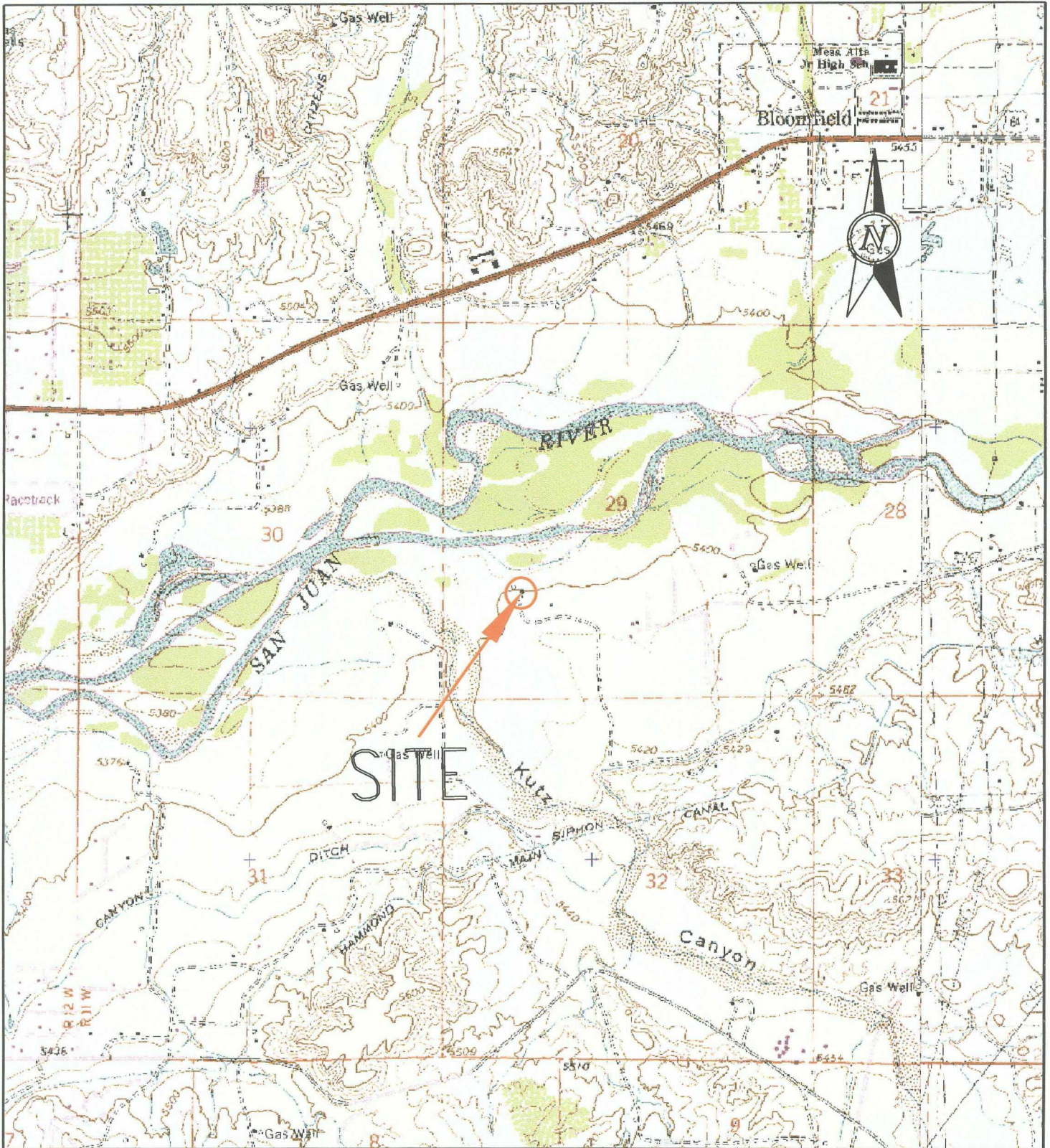
Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)					
				Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX	
06/14/01	0106016-01A	UG 1		BDL	BDL	BDL	BDL	0	
06/14/01	0106016-02A	UG 2		BDL	BDL	BDL	BDL	0	
06/14/01	0106016-03A	MW-NE		9.6	BDL	8.3	1.9	19.8	
09/19/01	0109026-01A	MW-NE		24.0	0.7	18.0	26.5	69.2	
12/13/01	0112015-01A	MW-NE		10.0	BDL	6.0	4.7	20.7	
3/12/02	0203022-01A	MWNE		25.0	BDL	24	32	81.0	
6/19/02	0206030-03A	MWNE		12.0	BDL	5.9	5.4	23.3	
9/17/02	0209019-03A	MWNE		13.0	BDL	11.0	10.8	34.8	
3/20/03	0303021-002A	MWNE		5.8	1.9	12	4.7	24.4	
6/11/03	0306025-001A	MWNE		2.3	0.8	3.1	2.8	9.0	
10/6/03	031011-004	MWNE		5.0	BDL	3.6	2.3	10.9	
06/14/01	0106016-04A	SB 12		42.0	5.50	72.0	370.0	489.5	
09/19/01	0109026-02A	SB 12		110.0	BDL	120.0	810.0	1040.0	
12/13/01	0112015-02A	SB 12		28.0	BDL	63.0	322.9	413.9	
3/12/02	0203022-02A	SB 12		64.0	BDL	56.0	211.4	331.40	
6/19/02	0206030-01A	SB-12		130	BDL	76	380	586.0	
9/17/02	0209019-01A	SB-12		40.0	BDL	51.0	245.1	336.1	
3/20/03	0303021-003A	SB-12		53.0	10.0	41.0	213.0	317.0	
6/11/03	0306025-002A	SB-12		370.0	BDL	19.0	53.8	442.8	
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0		

BDL Below Detection Limits

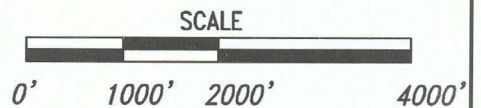
Souder, Miller and Associates
 Table 2
 BTEX Analytical Summary
 Shephard & Kelsey #1
 Unit L, Sec. 29, T29N, R11W

Sample Date	Sample ID#	Monitor Well	Remarks	BTEX per EPA 8020 (ppb)				
				Benzene	Toluene	Ethylbenzene	Total Xylene	Total BTEX
10/6/03	0310011-002	SB-12		6.1	BDL	30.	182.0	218.1
1/30/04	0401019-001A	SB-12		12	BDL	16	74.2	102.2
4/26/04	0404042-001A	SB-12		45	BDL	21	100	166
06/15/01	0106018-02A	DG-MW		BDL	BDL	BDL	BDL	BDL
10/6/03	031011-001	DG-MW		BDL	BDL	BDL	BDL	BDL
WQCC	ACTION	LEVELS		10.0	750.0	750.0	620.0	

* Well not sampled 9/16/97 due to area around well flooded.
 BDL Below Detection Limits



SITE LOCATION: NW 1/4 SW 1/4 SECTION 29 T 29N R 11W
 SOURCE MAP: HORN CANYON, NEW MEXICO USGS QUADRANGLE

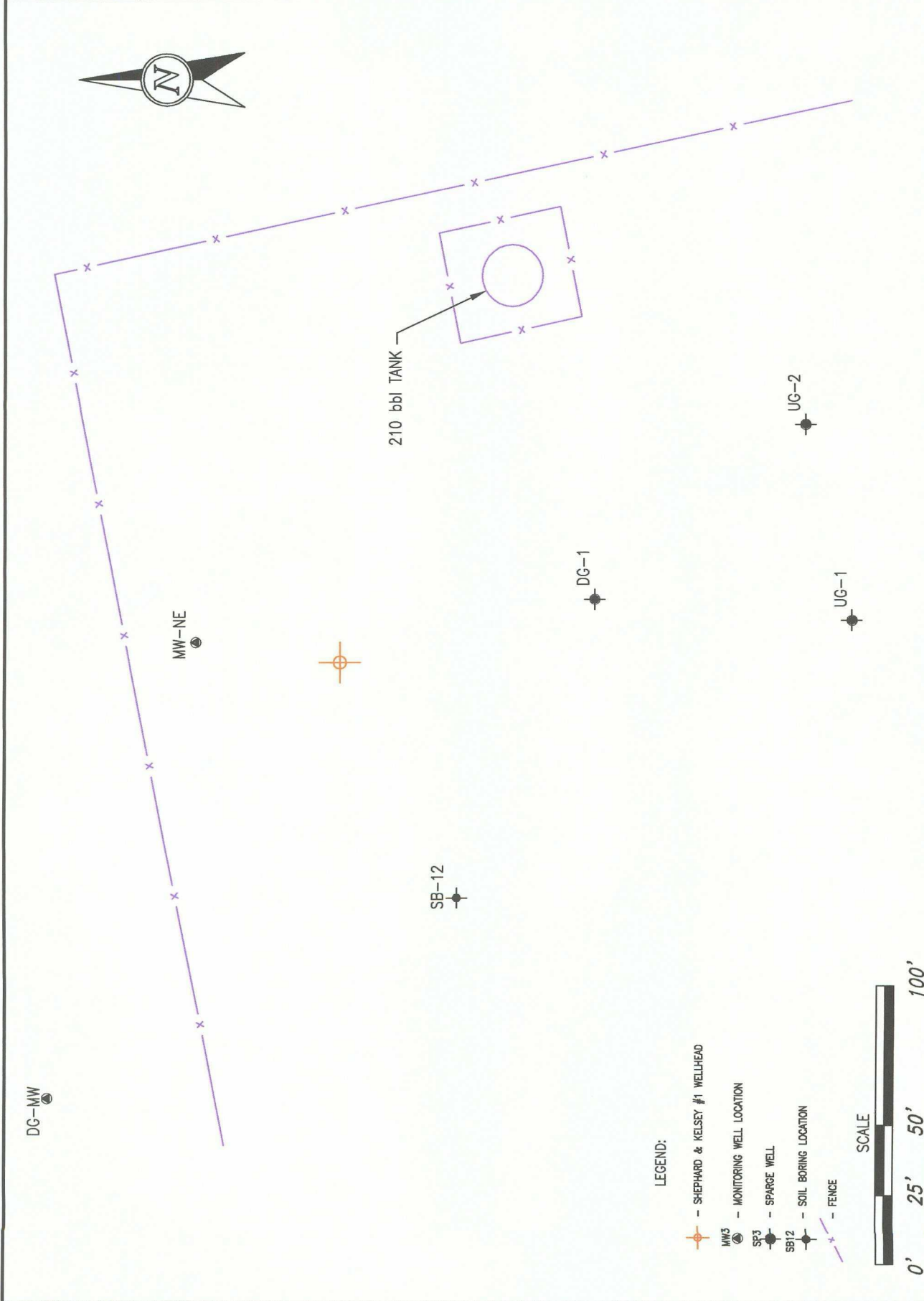


SMA
 Civil / Environmental
 Scientists & Engineers

612 E. MURRAY DR. PH. (505) 325-5667
 FARMINGTON, NM 87401 FAX (505) 327-1496

APPROVED: WG	DATE:
DRAWN BY: TLONG	DATE: 2/11/05
REVISIONS BY:	DATE:
PROJECT # 5114224	FIGURE: 1

VICINITY MAP
 CONOCOPHILLIPS
 SHEPHARD & KELSEY #1
 BLOOMFIELD, NEW MEXICO



LEGEND:

- SHEPARD & KELSEY #1 WELLHEAD
- MW3 -- MONITORING WELL LOCATION
- SF3 -- SPARGE WELL
- SB12 -- SOIL BORING LOCATION
- FENCE

SCALE



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 FARMINGTON, NM 87401
 PH. (505) 325-6667
 FAX (505) 327-1496

APPROVED:

DRAWN BY: MED

REVISIONS BY: TLONG

PROJECT # 5514224

DATE:

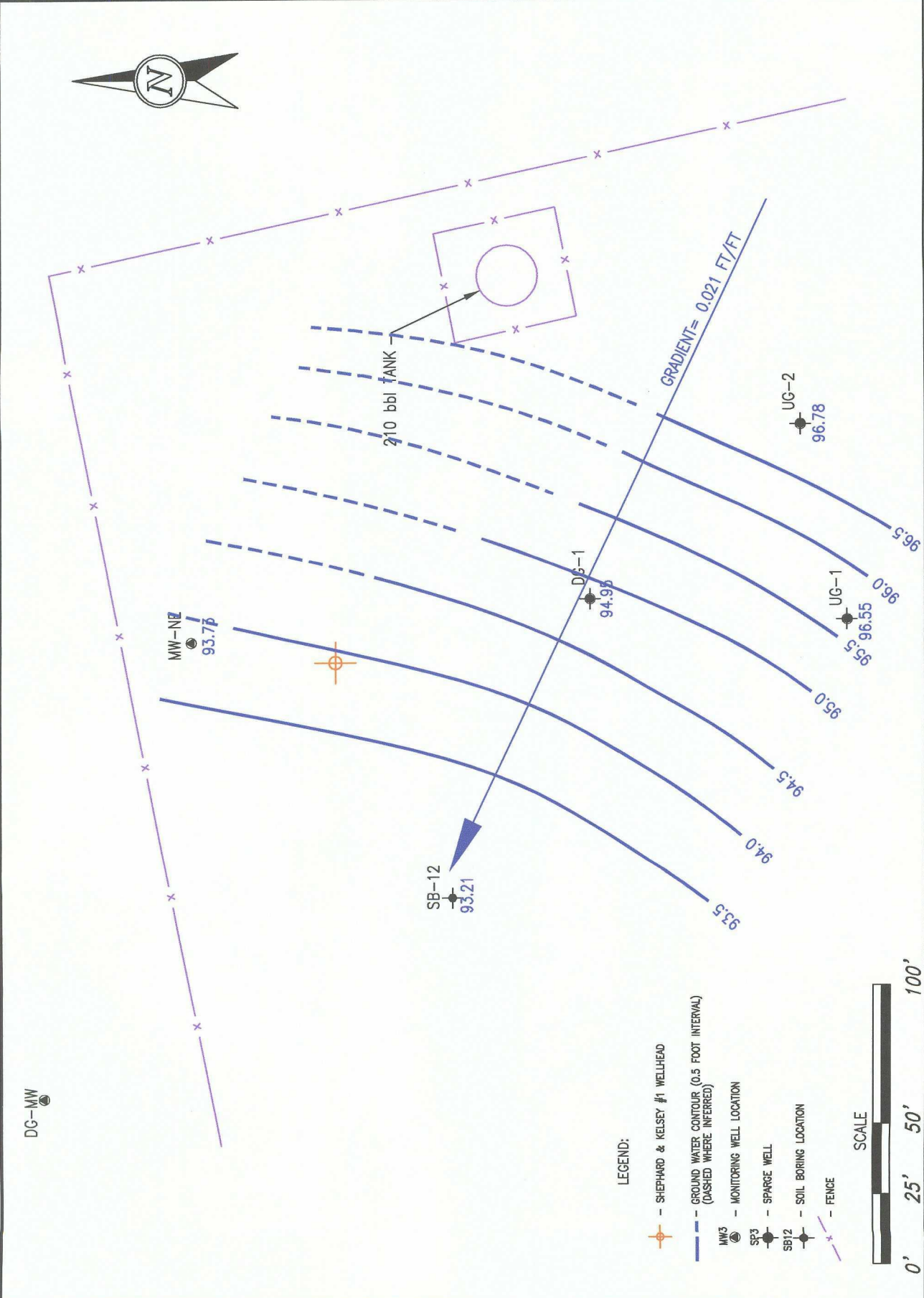
DATE: 2/20/02

DATE: 2/8/05

FIGURE: 2

SITE MAP

SHEPARD & KELSEY #1
 CONOCO, INC.
 SAN JUAN BASIN, NEW MEXICO

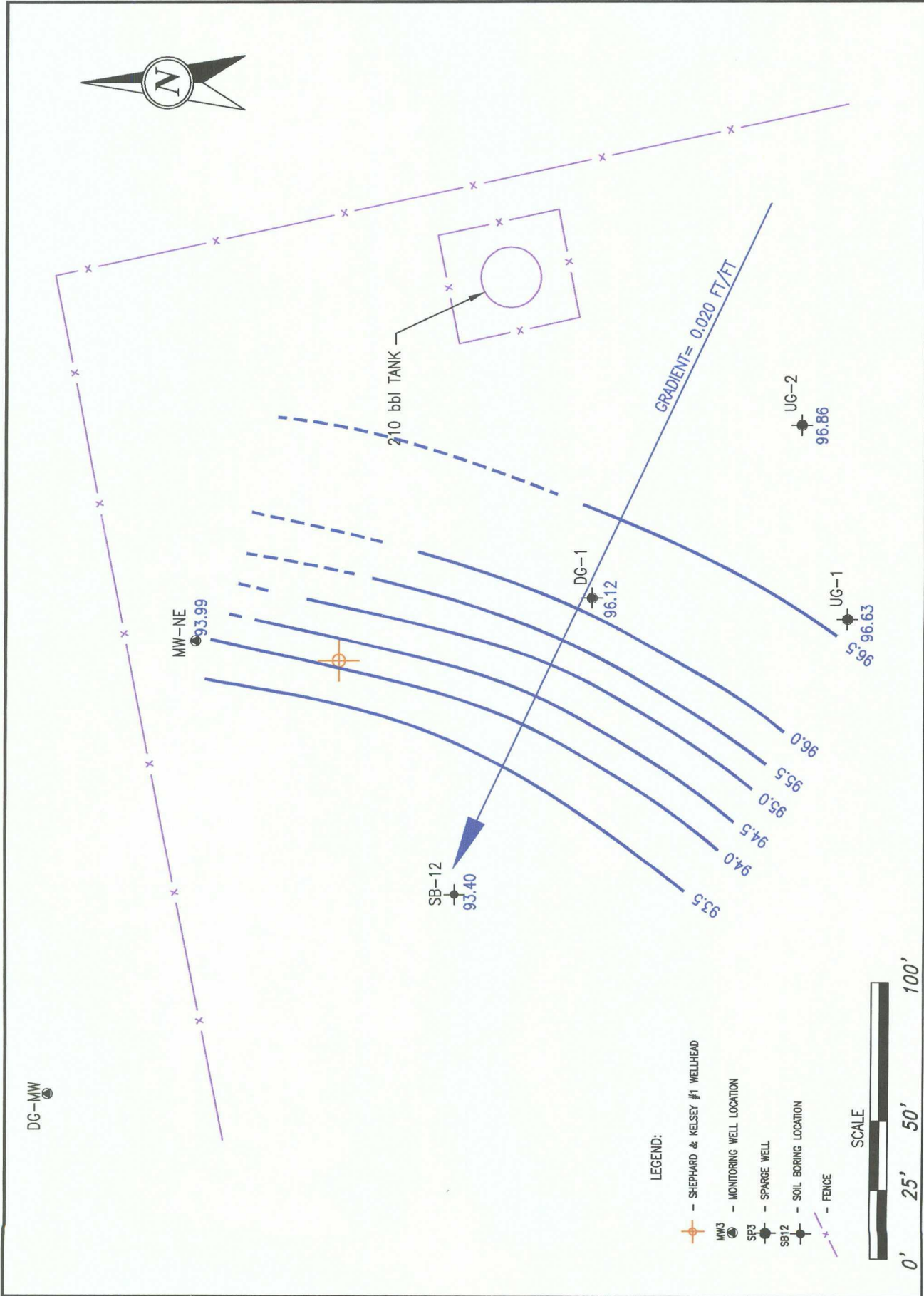


POTENTIOMETRIC SURFACE MAP
 1/30/04
 SHEPHARD & KELSEY #1
 CONOCOPHILLIPS
 SAN JUAN BASIN, NEW MEXICO

APPROVED:	DATE:
DRAWN BY: MED	DATE: 2/20/02
REVISIONS BY: TLONG	DATE: 2/8/05
PROJECT # 5114224	FIGURE: 3

SMA
 Civil / Environmental
 Scientists & Engineers

612 E. MURRAY DR.
 FARMINGTON, NM 87401
 P.H. (505) 325-6667
 FAX (505) 327-1496



LEGEND:

- SHEPARD & KELSEY #1 WELLHEAD
- MW3 - MONITORING WELL LOCATION
- SF3 - SPARGE WELL
- SB12 - SOIL BORING LOCATION
- FENCE

SCALE

0' 25' 50' 100'

<p>POTENTIOMETRIC SURFACE MAP 4/26/04 SHEPARD & KELSEY #1 CONOCOPHILLIPS SAN JUAN BASIN, NEW MEXICO</p>	
APPROVED:	DATE:
DRAWN BY: MED	DATE: 2/20/02
REVISIONS BY: TLONG	DATE: 2/8/05
PROJECT # 5114224	FIGURE: 4



612 E. MURRAY DR. PH. (505) 325-5667
FARMINGTON, NM 87401 FAX (505) 327-1496

612 E. Murray Drive
Farmington, NM 87499

Off: (505) 327-1072
FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

February 04, 2004

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: S & K 1, 5114224

Order No.: 0401019

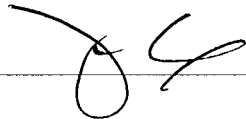
Dear John Hagstrom:

iiná bá received 2 samples on 1/30/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _____



David Cox
Laboratory Manager

Heidi Reese
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.

612 E. Murray Drive
Farmington, NM 87499

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FAX: (505) 327-1496

iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Project: S & K 1, 5114224
Lab Order: 0401019

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), the quality control summary report(s) or the sample receipt checklist.

612 E. Murray Drive
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iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K 1, 5114224
Lab ID: 0401019-001A

Client Sample Info: Shepard and Kelsey 1
Client Sample ID: SB12
Collection Date: 1/30/2004 11:50:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: JEM	
Benzene	12	0.5		µg/L	1	2/3/2004
Ethylbenzene	16	0.5		µg/L	1	2/3/2004
m,p-Xylene	73	1.0		µg/L	1	2/3/2004
o-Xylene	1.2	0.5		µg/L	1	2/3/2004
Toluene	ND	0.5		µg/L	1	2/3/2004

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
H - Parameter exceeded Maximum Allowable Holding Time

Page 1 of 2

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive
Farmington, NM 87499

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iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

Date: 04-Feb-04

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K 1, 5114224
Lab ID: 0401019-002A

Client Sample Info: Shepard and Kelsey 1
Client Sample ID: Trip Blank
Collection Date: 1/30/2004 10:00:00 AM
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	2/3/2004
Ethylbenzene	ND	0.5		µg/L	1	2/3/2004
m,p-Xylene	ND	1.0		µg/L	1	2/3/2004
o-Xylene	ND	0.5		µg/L	1	2/3/2004
Toluene	ND	0.5		µg/L	1	2/3/2004

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
H - Parameter exceeded Maximum Allowable Holding Time

iiná bá, Ltd.

Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received:

1/30/2004

Work Order Number: 0401019

Received by: JEM

Checklist completed by:

J Moore
Signature

1/30/04
Date

Reviewed by:

JEM
Initials

2/2/04
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: *Samples left in cooler by client,*

Corrective Action: _____

iiná bá

Date: 04-Feb-04

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K 1, 5114224

TestCode: BTEX_W

Sample ID	MBLK_040203	SampType: MBLK	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040203A					
Client ID:	ZZZZZ	Batch ID: R5350	TestNo: SW8021B		Analysis Date: 2/3/2004	SeqNo: 77153					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	ND	0.50									J
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	1.0									
o-Xylene	ND	0.50									
Toluene	0.074	0.50									

Sample ID	LCS_040203	SampType: LCS	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040203A					
Client ID:	ZZZZZ	Batch ID: R5350	TestNo: SW8021B		Analysis Date: 2/3/2004	SeqNo: 77152					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	40.46	0.50	40	0	101	86	114	0	0		
Ethylbenzene	42.17	0.50	40	0	105	85	116	0	0		
m,p-Xylene	84.87	1.0	80	0	106	89	114	0	0		
o-Xylene	42.33	0.50	40	0	106	86	114	0	0		
Toluene	42.76	0.50	40	0.074	107	87	112	0	0		

Sample ID	0401019-001AMS	SampType: MS	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040203A					
Client ID:	SB12	Batch ID: R5350	TestNo: SW8021B		Analysis Date: 2/3/2004	SeqNo: 77154					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	206.8	2.5	200	12.07	97.4	81	116	0	0		
Ethylbenzene	223.4	2.5	200	15.78	104	85	115	0	0		
m,p-Xylene	495.7	5.0	400	74.13	105	84	117	0	0		
o-Xylene	209.1	2.5	200	3.165	103	84	113	0	0		
Toluene	211.2	2.5	200	8.164	102	88	110	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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0401019
Project: S & K I, 5114224

TestCode: BTEX_W

Sample ID	0401019-001AMSD	SampType:	MSD	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	Run ID:	GC-1_040203A	
Client ID:	SB12	Batch ID:	R5350	TestNo:	SW8021B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	213.8	2.5	200	12.07	101	78	111	206.8	3.35	7	
Ethylbenzene	231.4	2.5	200	15.78	108	82	111	223.4	3.50	6.9	
m,p-Xylene	512.1	5.0	400	74.13	109	80	113	495.7	3.27	6.8	
o-Xylene	215.1	2.5	200	3.165	106	83	110	209.1	2.86	6.4	
Toluene	218.3	2.5	200	8.164	105	84	110	211.2	3.31	6.3	

Sample ID	CCV1_040203	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	Run ID:	GC-1_040203A	
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	21.08	0.50	20	0	105	85	115	0	0	0	
Ethylbenzene	21.88	0.50	20	0	109	85	115	0	0	0	
m,p-Xylene	43.72	1.0	40	0	109	85	115	0	0	0	
o-Xylene	22.04	0.50	20	0	110	85	115	0	0	0	
Toluene	22.38	0.50	20	0	112	85	115	0	0	0	

Sample ID	CCV2_040203	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:	Run ID:	GC-1_040203A	
Client ID:	ZZZZZ	Batch ID:	R5350	TestNo:	SW8021B						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	39.2	0.50	40	0	98	85	115	0	0	0	
Ethylbenzene	40.93	0.50	40	0	102	85	115	0	0	0	
m,p-Xylene	82.25	1.0	80	0	103	85	115	0	0	0	
o-Xylene	41.14	0.50	40	0	103	85	115	0	0	0	
Toluene	41.27	0.50	40	0	103	85	115	0	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

CLIENT: Souder, Miller & Associates
 Work Order: 0401019
 Project: S & K 1, 5114224
 Test No: SW8021B

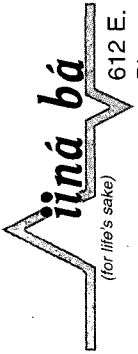
**QC SUMMARY REPORT
 SURROGATE RECOVERIES**

Matrix: W

Sample ID	14FBZ	4BCBZ	FLBZ			
0401019-001A	104	111	101			
0401019-001A	103	111	101			
0401019-001A	103	109	101			
0401019-001AMS	104	111	101			
0401019-001AMSD	103	111	101			
0401019-002A	105	111	102			
CCV1_040203	104	109	101			
CCV2_040203	103	112	101			
LCS_040203	103	111	100			
MBLK_040203	105	108	102			

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	87-124
4BCBZ	= 4-Bromochlorobenzene	75-139
FLBZ	= Fluorobenzene	86-119

* Surrogate recovery outside acceptance limits



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CHAIN OF CUSTODY RECORD

3591

Date 1/30/04

Page 1 of 1

REPORT RESULTS TO: Report to: <u>JHAGSTROM</u> Company: _____ Address: _____ City: _____ Phone: _____ Fax: _____ Email: _____ Turnaround Time: <input checked="" type="checkbox"/> 10 days (normal) <input type="checkbox"/> Subcontract Yes _____ No <u>1</u> <input type="checkbox"/> 24-48 hours (100%) <input type="checkbox"/> 3-5 days (50%) On Ice <input checked="" type="checkbox"/>		PO No.: _____ Job No.: <u>5114224</u> Name: _____ Company: _____ Address: _____ City: _____	
Sampling Location: <u>S+K1 SB12</u>		Analysis Requested: _____	
Sample Identification:		CONTAINERS:	
Sample Date <u>1/30/04 11:50</u>	Matrix <u>H2O</u>	Pres. <u>ALL</u>	Lab ID <u>0401017-001A</u> <u>-002A</u>
<u>TRIP BLANK</u>	<u>1000</u>	<u>V</u>	
Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>	
Relinquished by: _____		Received by: _____	
Relinquished by: _____		Received by: _____	
Date/Time: _____		Date/Time: <u>1/30/04 12:50</u>	
Date/Time: _____		Date/Time: _____	
Date/Time: _____		Date/Time: _____	
Comments: _____			

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iiná bá

P.O. Box 3788
Shiprock, NM 87420

Off: (505) 368-4065

May 10, 2004

Walter Gage
Souder, Miller & Associates
612 E. Murray Drive
P.O. Box 2606
Farmington, NM 87401
TEL: (505) 325-1556
FAX (505) 327-1496
RE: 5114224; S&K 1

Order No.: 0404042

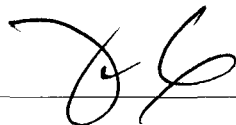
Dear Walter Gage:

iiná bá received 2 samples on 4/26/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By: _____



David Cox
Laboratory Manager

Heidi Reese
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.

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Shiprock, NM 87420

Off: (505) 368-4065

iiná bá

Date: *10-May-04*

CLIENT: Souder, Miller & Associates

Project: 5114224; S&K 1

Lab Order: 0404042

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), the quality control summary report(s) or the sample receipt checklist.

Analytical Comments for METHOD BTEX_W, SAMPLE 0404042-001A: Sample pH > 2 and analyzed eight days after collection date.

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ANALYTICAL REPORT

Date: 10-May-04

CLIENT: Souder, Miller & Associates
Work Order: 0404042
Project: 5114224; S&K 1
Lab ID: 0404042-001A

Client Sample Info: S&K 1
Client Sample ID: SB 12
Collection Date: 4/26/2004 10:45:00 AM
Matrix: AQUEOUS

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: JEM	
Benzene	45	0.5		µg/L	1	5/4/2004
Ethylbenzene	21	0.5		µg/L	1	5/4/2004
m,p-Xylene	100	1.0		µg/L	1	5/4/2004
o-Xylene	ND	0.5		µg/L	1	5/4/2004
Toluene	ND	0.5		µg/L	1	5/4/2004

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

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Off: (505) 368-4065

ANALYTICAL REPORT

Date: 10-May-04

CLIENT: Souder, Miller & Associates
Work Order: 0404042
Project: 5114224; S&K 1
Lab ID: 0404042-002A

Client Sample Info: S&K 1
Client Sample ID: Trip Blank
Collection Date: 4/26/2004 8:00:00 AM
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	5/4/2004	
Ethylbenzene	ND	0.5		µg/L	1	5/4/2004	
m,p-Xylene	ND	1.0		µg/L	1	5/4/2004	
o-Xylene	ND	0.5		µg/L	1	5/4/2004	
Toluene	ND	0.5		µg/L	1	5/4/2004	

Qualifiers: ND - Not Detected at the Practical Quantitation Limit
J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank
H - Parameter exceeded Maximum Allowable Holding Time
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted precision limits
E - Value above Upper Quantitation Limit - UQL

iiná bá

Sample Receipt Checklist

Client Name: SMA1005

Date and Time Received:

4/26/2004

Work Order Number: 0404042

Received by: HNR

Checklist completed by:

Heidi R
Signature

4/26/04
Date

Reviewed by:

jm
Initials

4/27/04
Date

Matrix:

Carrier name: Courier

- 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: _____

iiná bá

Date: 10-May-04

CLIENT: Souder, Miller & Associates
Work Order: 0404042
Project: 5114224; S&K I

ANALYTICAL QC SUMMARY REPORT

TestCode: BTEX_W

Sample ID	MB_040504	SampType:	MLBK	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A		
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80915		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		0.1199		0.50									J
Ethylbenzene		0.1261		0.50									J
m,p-Xylene		ND		1.0									
o-Xylene		0.1252		0.50									J
Toluene		0.1427		0.50									J

Sample ID	LCS1_040504	SampType:	LCS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A		
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80914		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		35.15		0.50	40	0.1199	87.6	86	114	0	0		
Ethylbenzene		38.3		0.50	40	0.1261	95.4	85	116	0	0		
m,p-Xylene		76.88		1.0	80	0	96.1	89	114	0	0		
o-Xylene		38.41		0.50	40	0.1252	95.7	86	114	0	0		
Toluene		38.67		0.50	40	0.1427	96.3	87	112	0	0		

Sample ID	0404045-007AMS	SampType:	MS	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A		
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80916		
Analyte		Result		PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene		359.1		2.5	200	176.3	91.4	81	116	0	0		
Ethylbenzene		246		2.5	200	39.94	103	85	115	0	0		
m,p-Xylene		545.7		5.0	400	129.5	104	84	117	0	0		
o-Xylene		206.1		2.5	200	5.808	100	84	113	0	0		
Toluene		212.3		2.5	200	2.818	105	88	110	0	0		

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 Page 1 of 3

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0404042
Project: 5114224; S&K 1

TestCode: BTEX_W

Sample ID	0404045-007AMSD	SampType: MSD	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040504A					
Client ID:	ZZZZZ	Batch ID: R5657	TestNo: SW8021B		Analysis Date: 5/4/2004	SeqNo: 80917					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	347.6	2.5	200	176.3	85.6	78	111	359.1	3.26	7	
Ethylbenzene	238.8	2.5	200	39.94	99.4	82	111	246	2.97	6.9	
m,p-Xylene	530.3	5.0	400	129.5	100	80	113	545.7	2.86	6.8	
o-Xylene	202.8	2.5	200	5.808	98.5	83	110	206.1	1.58	6.4	
Toluene	206.2	2.5	200	2.818	102	84	110	212.3	2.89	6.3	

Sample ID	CCV1_040504	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040504A					
Client ID:	ZZZZZ	Batch ID: R5657	TestNo: SW8021B		Analysis Date: 5/4/2004	SeqNo: 80910					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	18.17	0.50	20	0	90.8	85	115	0	0		
Ethylbenzene	19.84	0.50	20	0	99.2	85	115	0	0		
m,p-Xylene	39.8	1.0	40	0	99.5	85	115	0	0		
o-Xylene	19.7	0.50	20	0	98.5	85	115	0	0		
Toluene	19.92	0.50	20	0	99.6	85	115	0	0		

Sample ID	CCV2_040504	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040504A					
Client ID:	ZZZZZ	Batch ID: R5657	TestNo: SW8021B		Analysis Date: 5/4/2004	SeqNo: 80911					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	36.31	0.50	40	0	90.8	85	115	0	0		
Ethylbenzene	40.19	0.50	40	0	100	85	115	0	0		
m,p-Xylene	81.89	1.0	80	0	102	85	115	0	0		
o-Xylene	39.52	0.50	40	0	98.8	85	115	0	0		
Toluene	41.51	0.50	40	0	104	85	115	0	0		

Sample ID	CCV3_040504	SampType: CCV	TestCode: BTEX_W	Units: µg/L	Prep Date:	Run ID: GC-1_040504A					
Client ID:	ZZZZZ	Batch ID: R5657	TestNo: SW8021B		Analysis Date: 5/4/2004	SeqNo: 80912					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	17.48	0.50	20	0	87.4	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

ANALYTICAL QC SUMMARY REPORT

CLIENT: Souder, Miller & Associates
Work Order: 0404042
Project: 5114224; S&K 1

TestCode: BTEX_W

Sample ID	CCV3_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80912
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Ethylbenzene	19.59	0.50	20	0	98	85	115	0	0		
m,p-Xylene	39.58	1.0	40	0	99	85	115	0	0		
o-Xylene	19.39	0.50	20	0	96.9	85	115	0	0		
Toluene	19.72	0.50	20	0	98.6	85	115	0	0		

Sample ID	CCV5_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80913
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	37.54	0.50	40	0	93.8	85	115	0	0		
Ethylbenzene	41.08	0.50	40	0	103	85	115	0	0		
m,p-Xylene	83.14	1.0	80	0	104	85	115	0	0		
o-Xylene	40.86	0.50	40	0	102	85	115	0	0		
Toluene	41.53	0.50	40	0	104	85	115	0	0		

Sample ID	CCV4_040504	SampType:	CCV	TestCode:	BTEX_W	Units:	µg/L	Prep Date:		Run ID:	GC-1_040504A
Client ID:	ZZZZZ	Batch ID:	R5657	TestNo:	SW8021B			Analysis Date:	5/4/2004	SeqNo:	80918
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual

Benzene	37.12	0.50	40	0	92.8	85	115	0	0		
Ethylbenzene	40.61	0.50	40	0	102	85	115	0	0		
m,p-Xylene	81.98	1.0	80	0	102	85	115	0	0		
o-Xylene	40.65	0.50	40	0	102	85	115	0	0		
Toluene	40.93	0.50	40	0	102	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
 Page 3 of 3

Liná bá

Date: 10-May-04

CLIENT: Souder, Miller & Associates

Work Order: 0404042

Project: 5114224; S&K 1

Test No: SW8021B

Matrix: W

QC SUMMARY REPORT SURROGATE RECOVERIES

Sample ID	14FBZ	4BCBZ	FLBZ				
0404042-001A	93.1	119	94.2				
0404042-002A	103	125	99.8				
0404045-007AMS	104	122	97.3				
0404045-007AMSD	105	122	97.7				
CCV1_040504	102	127	98.7				
CCV2_040504	102	133	98.0				
CCV3_040504	103	118	97.4				
CCV4_040504	102	124	98.3				
CCV5_040504	102	123	98.5				
LCS1_040504	102	125	99.0				
MB_040504	103	124	99.7				

Acronym	Surrogate	QC Limits
14FBZ	= 1,4-Difluorobenzene	87-124
4BCBZ	= 4-Bromochlorobenzene	75-139
FLBZ	= Fluorobenzene	86-119

* Surrogate recovery outside acceptance limits

