

3R – 328

2003 AGWMR

08 / 31 / 2004



188 County Road 4900
Bloomfield, NM 87413
(505) 634-4956 Phone
(505) 632-4780 Fax

August 31, 2004

Mr. William Olson
Hydrologist
NM Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: 2003 GROUND WATER SUMMARY REPORT

Dear Bill:

Enclosed for your review is the Williams 2003 Ground Water Summary Report. The report provides results of ground water monitoring at several sites in the San Juan Basin historically impacted from the use of unlined surface impoundments. The report includes those sites where monitored natural attenuation is ongoing. Work at these sites continues as previously communicated.

Thank you for taking the time to review this report. If you have any questions or need other information, please contact me or Jim Struhs at 505-634-4956.

Respectfully,

A handwritten signature in black ink, appearing to read "Mark Harvey", written over the word "Respectfully,".

Mark Harvey
Project Coordinator

Enclosure – 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

Site Summary Report

Site Name: Patterson A Com A1

Reporting Period: 2003

Location: Unit G, Sec 2, Twn 31N, Rng 12W

Canyon: Farmington Glade

Operator: Burlington

Vulnerable Class: original

OCD Ranking: 40

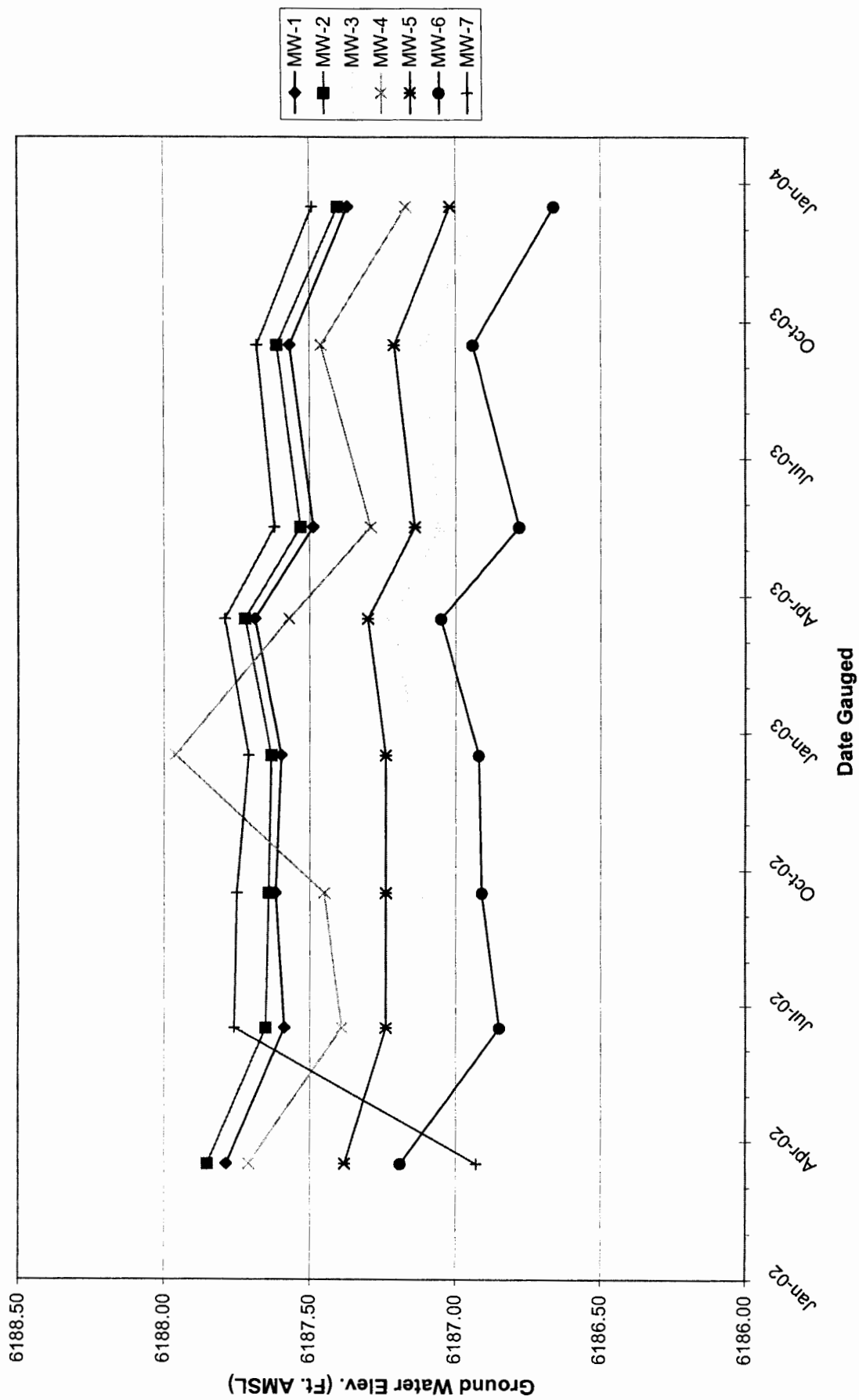
Lead Agency: NMOCD

Status Narrative

Seventeen quarters of water quality data have been collected from the seven monitoring wells located at this site. Currently, only the source area well, MW-2, contains benzene at concentrations in excess of WQCC standards. Benzene concentrations ranged from 58 ppb to 320 ppb over the course of the year. In 2002 benzene levels ranged from 390 ppb to 880 ppb.

Potentiometric surface maps (Figure 2) depict ground water flow generally to the southeast. The hydraulic gradient was 0.004 to 0.006 throughout the year. Seasonal fluctuations in the water-table elevation are illustrated on the enclosed hydrograph.

Patterson #1A Hydrograph



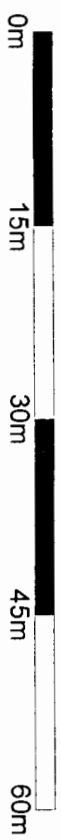
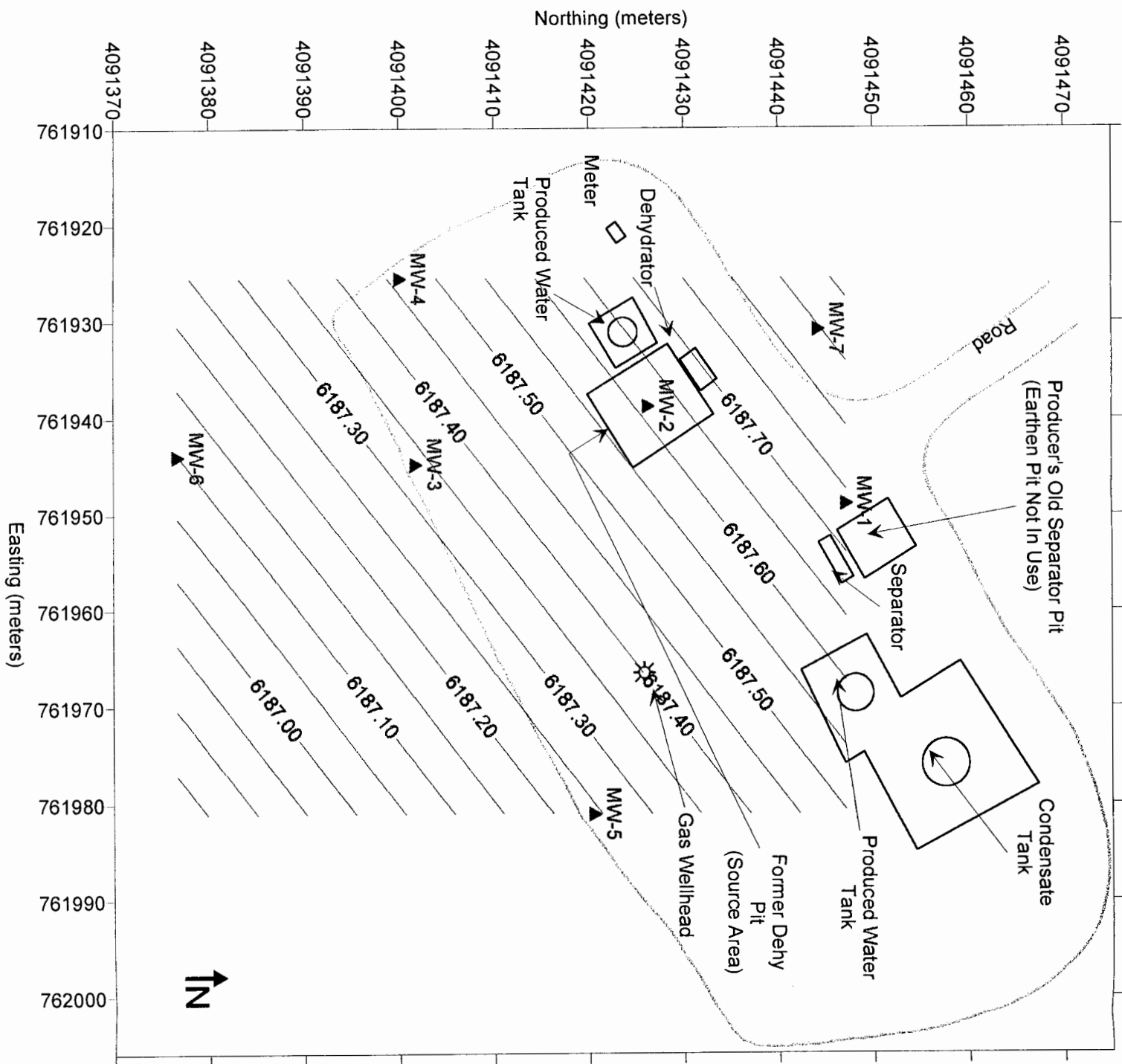


Figure 2
Potentiometric
Surface Map
Patterson #1A
(March 27, 2003)

LEGEND



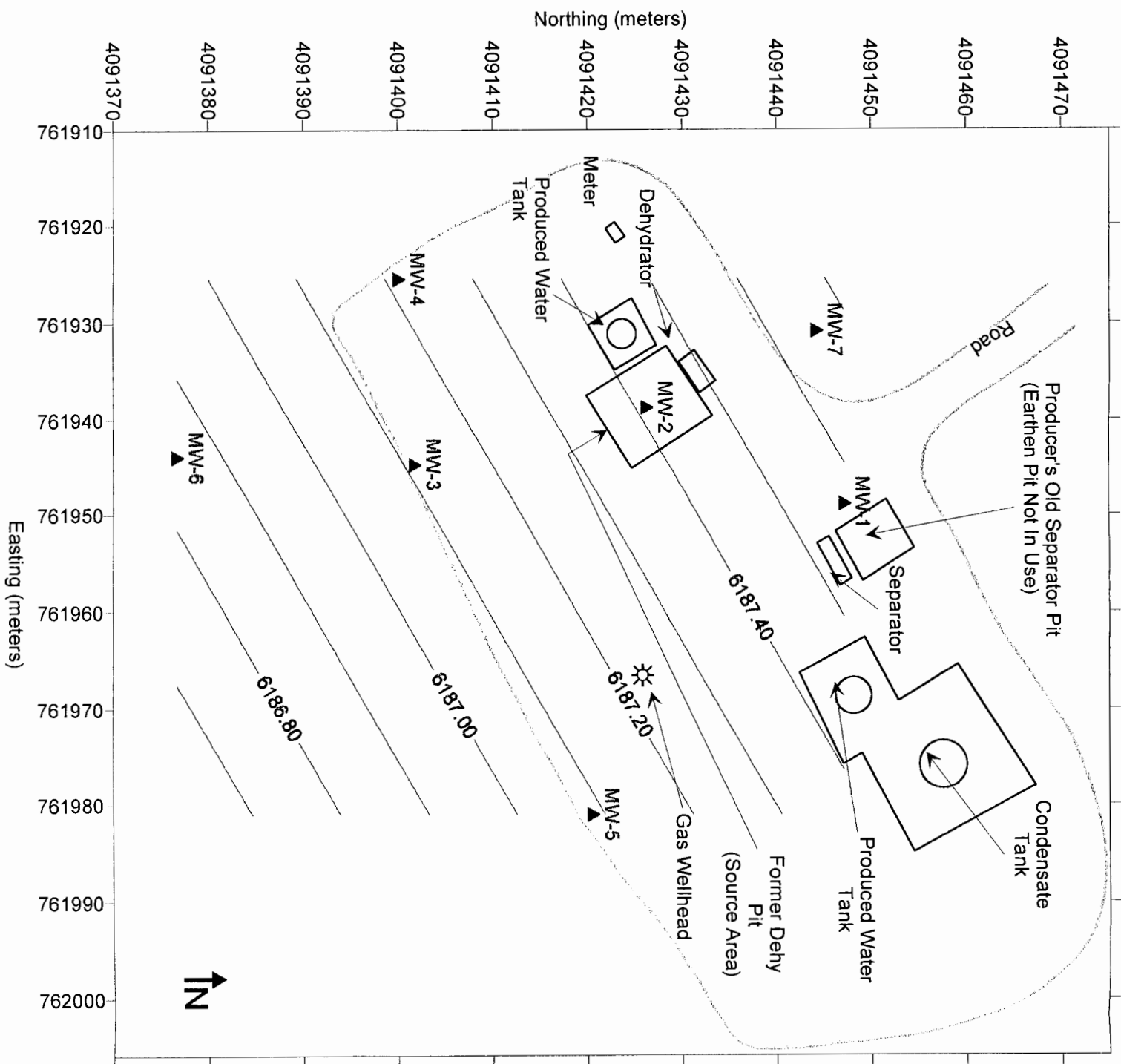


Figure 2
Potentiometric
Surface Map
Patterson #1A
(May 22, 2003)

LEGEND



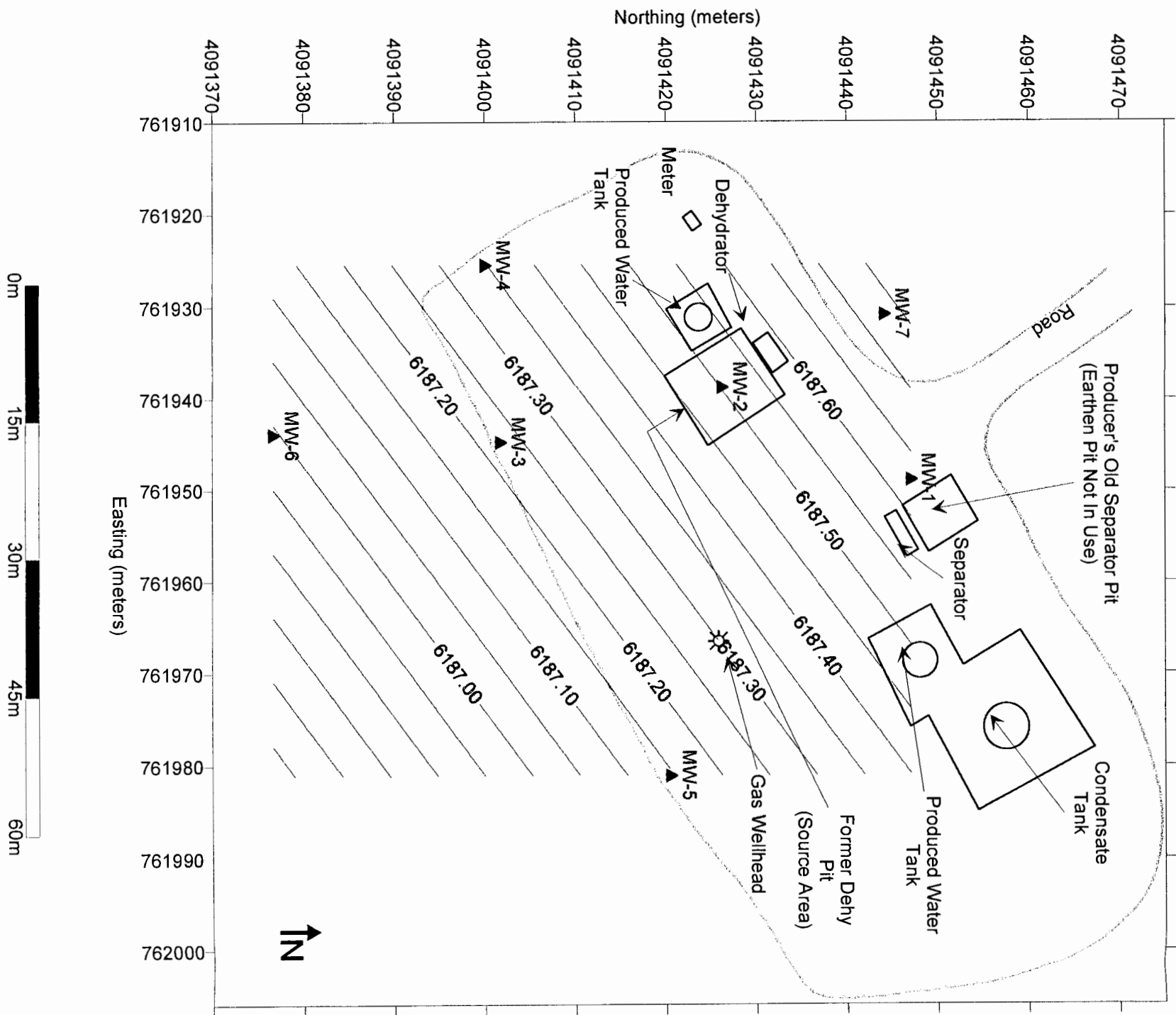


Figure 2
Potentiometric
Surface Map
Patterson #1A
(September 17, 2003)



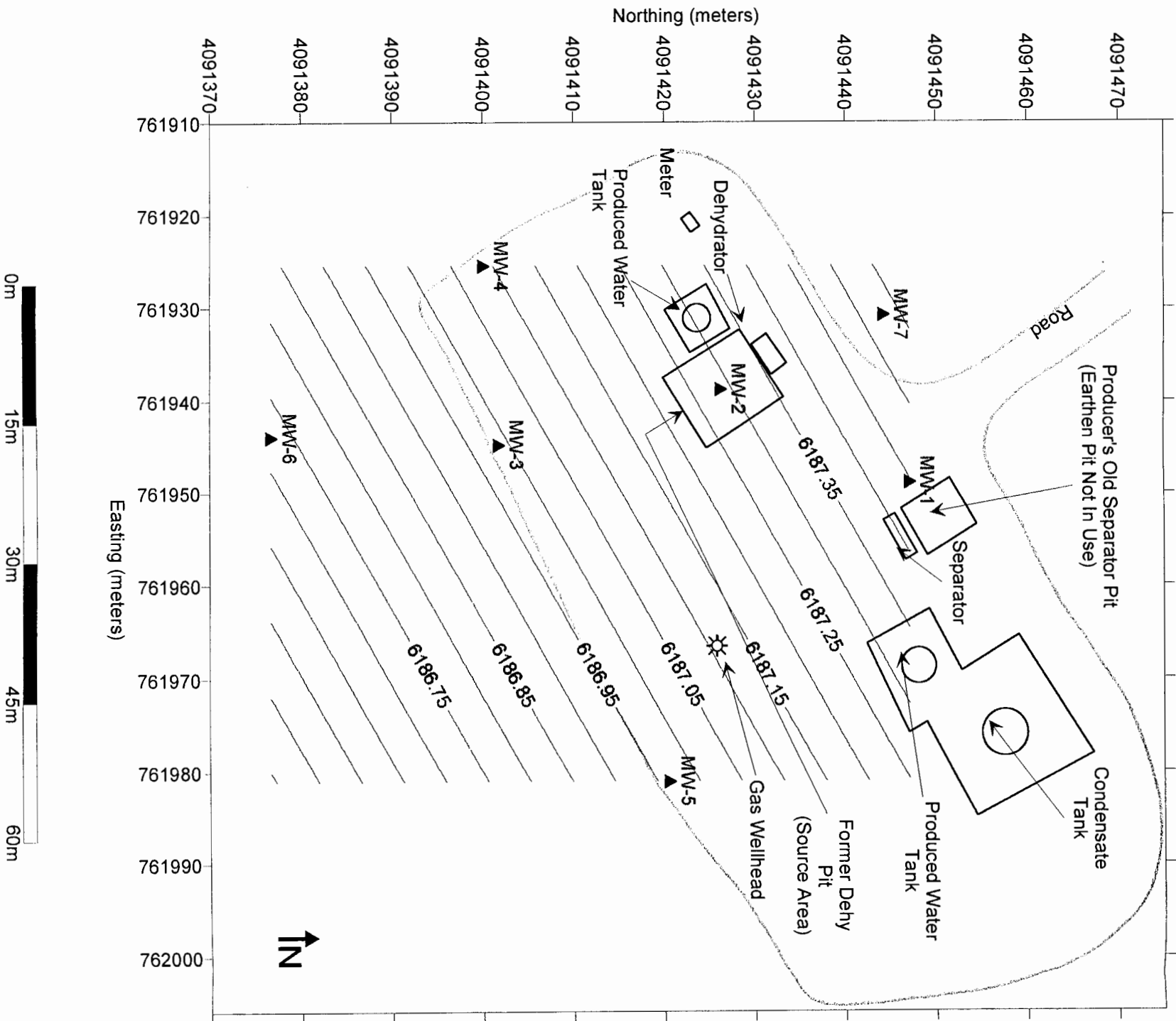


Figure 2
Potentiometric
Surface Map
Patterson #1A
(December 4, 2003)



Analytical Data Summary

Site Name:

Patterson A Com A1

Reporting Period:

1/1/03 To 12/31/03

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	3/27/03	102527MAR03	2.1	ND	ND	ND
	5/22/03	110222MAY03	ND	ND	ND	ND
	9/17/03	150517SEP03	ND	ND	ND	ND
	12/4/03	121104DEC03	ND	ND	ND	ND
MW-2						
	3/27/03	110027MAR03	120	20.	ND	15.
	5/22/03	115122MAY03	320	ND	ND	ND
	9/17/03	145617SEP03	190	2.0	ND	ND
	12/4/03	123004DEC03	58.	2.2	ND	7.9
MW-3						
	3/27/03	104227MAR03	ND	ND	ND	ND
	5/22/03	112222MAY03	ND	ND	ND	ND
	9/17/03	143417SEP03	ND	ND	ND	ND
	12/4/03	114504DEC03	ND	ND	ND	ND
MW-4						
	3/27/03	105727MAR03	ND	ND	ND	ND
	5/22/03	114122MAY03	ND	ND	ND	ND
	9/17/03	142417SEP03	ND	ND	ND	ND
	12/4/03	113104DEC03	ND	ND	ND	ND
MW-5						
	3/27/03	103427MAR03	ND	ND	ND	ND
	5/22/03	111222MAY03	ND	ND	ND	ND
	9/17/03	144417SEP03	ND	ND	ND	ND
	12/4/03	120004DEC03	ND	ND	ND	ND
MW-6						
	3/27/03	104627MAR03	ND	ND	ND	ND
	5/22/03	113122MAY03	ND	ND	ND	ND
	12/4/03	111704DEC03	ND	ND	ND	ND
MW-7						
	3/27/03	101327MAR03	ND	ND	ND	ND
	5/22/03	105222MAY03	ND	ND	ND	ND
	12/4/03	122104DEC03	ND	ND	ND	ND



Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

April 09, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRSN

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on April 2, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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SAMPLE SUMMARY

Pace Analytical Services, Inc.

9608 Loiret Blvd.

Lenexa, KS 66219

Phone: 913.599.5665

Fax: 913.599.1759

Lab Project Number: 6069048

Client Project ID: SJB-GW/PTRSN

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6069048-001	605956887	102527MAR03	Water	03/27/03 10:25	04/02/03 09:30
6069048-002	605956895	101327MAR03	Water	03/27/03 10:13	04/02/03 09:30
6069048-003	605956903	104627MAR03	Water	03/27/03 10:46	04/02/03 09:30
6069048-004	605956911	104227MAR03	Water	03/27/03 10:42	04/02/03 09:30
6069048-005	605956929	105727MAR03	Water	03/27/03 10:57	04/02/03 09:30
6069048-006	605956937	103427MAR03	Water	03/27/03 10:34	04/02/03 09:30
6069048-007	605956945	110027MAR03	Water	03/27/03 11:00	04/02/03 09:30

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Lab Project Number: 6069048

Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956887
Client Sample ID: 102527MAR03

Project Sample Number: 6069048-001
Matrix: Water

Date Collected: 03/27/03 10:25
Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	2.1	ug/l	2.0	1.0	04/07/03 15:47	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 15:47	SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 15:47	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 15:47	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	04/07/03 15:47	SHF	98-08-8		

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Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956895 Project Sample Number: 6069048-002 Date Collected: 03/27/03 10:13
Client Sample ID: 101327MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	04/07/03 16:16 SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 16:16 SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 16:16 SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 16:16 SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	04/07/03 16:16 SHF	98-08-8		

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Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956903 Project Sample Number: 6069048-003 Date Collected: 03/27/03 10:46
Client Sample ID: 104627MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	04/07/03 16:44 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 16:44 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 16:44 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 16:44 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	04/07/03 16:44 SHF		98-08-8		

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Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956911 Project Sample Number: 6069048-004 Date Collected: 03/27/03 10:42
Client Sample ID: 104227MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	04/07/03 17:13 SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 17:13 SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 17:13 SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 17:13 SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	04/07/03 17:13 SHF	98-08-8		

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Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956929 Project Sample Number: 6069048-005 Date Collected: 03/27/03 10:57
Client Sample ID: 105727MAR03 Matrix: Water Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	04/07/03 17:42 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 17:42 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 17:42 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 17:42 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	04/07/03 17:42 SHF		98-08-8		

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Lab Project Number: 6069048

Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956937
Client Sample ID: 103427MAR03

Project Sample Number: 6069048-006

Matrix: Water

Date Collected: 03/27/03 10:34

Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	04/07/03 18:10 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 18:10 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/07/03 18:10 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/07/03 18:10 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	04/07/03 18:10 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069048

Client Project ID: SJB-GW/PTRSN

Lab Sample No: 605956945
Client Sample ID: 110027MAR03

Project Sample Number: 6069048-007
Matrix: Water

Date Collected: 03/27/03 11:00
Date Received: 04/02/03 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	120	ug/l	2.0	1.0	04/07/03 20:33 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/07/03 20:33 SHF		100-41-4		
Toluene	20.	ug/l	2.0	1.0	04/07/03 20:33 SHF		108-88-3		
Xylene (Total)	15.	ug/l	5.0	1.0	04/07/03 20:33 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		1.0	04/07/03 20:33 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6069048
Client Project ID: SJB-GW/PTRS

QC Batch: 142326
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605956887 605956895 605956903 605956911 605956929
605956937 605956945

METHOD BLANK: 605965789

Associated Lab Samples: 605956887 605956895 605956903 605956911 605956929 605956937 605956945

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	91		

LABORATORY CONTROL SAMPLE: 605965797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.62	108	85-120	
Ethylbenzene	ug/l	20.00	20.87	104	87-114	
Toluene	ug/l	20.00	20.30	101	87-114	
Xylene (Total)	ug/l	60.00	63.11	105	88-115	
a,a,a-Trifluorotoluene (S)				99	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605967553 605967561

Parameter	Units	605958057 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Footnotes
Benzene	ug/l	0.9553	20.00	21.70	20.99	104	100	82-121	3	16
Ethylbenzene	ug/l	0.1301	20.00	20.99	21.08	104	105	84-114	0	14
Toluene	ug/l	0.3187	20.00	20.19	20.05	99	99	85-112	1	18
Xylene (Total)	ug/l	0.5420	60.00	62.95	61.91	104	102	83-115	2	16
a,a,a-Trifluorotoluene (S)						97	96	86-115		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

June 03, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on May 28, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Project	Sample	Client Sample ID	Matrix	Date Collected	Date Received
Sample Number	Number				
6070863-001	606105864	113222MAY03 113122MAY03 <i>PS</i>	Water	05/22/03 11:31	05/28/03 08:40
6070863-002	606105872	110222MAY03	Water	05/22/03 11:02	05/28/03 08:40
6070863-003	606105880	114122MAY03	Water	05/22/03 11:41	05/28/03 08:40
6070863-004	606105898	111222MAY03	Water	05/22/03 11:12	05/28/03 08:40
6070863-005	606105906	112222MAY03	Water	05/22/03 11:22	05/28/03 08:40
6070863-006	606105914	105222MAY03	Water	05/22/03 10:52	05/28/03 08:40
6070863-007	606105922	115122MAY03	Water	05/22/03 11:51	05/28/03 08:40

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105864 Project Sample Number: 6070863-001 Date Collected: 05/22/03 11:31
Client Sample ID: ~~113222MAY03~~ ^{113122MAY03} Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	05/31/03 01:32 SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 01:32 SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 01:32 SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 01:32 SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 01:32 SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863

Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105872
Client Sample ID: 110222MAY03

Project Sample Number: 6070863-002
Matrix: Water

Date Collected: 05/22/03 11:02
Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	05/31/03 02:00 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 02:00 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 02:00 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 02:00 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 02:00 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105880 Project Sample Number: 6070863-003 Date Collected: 05/22/03 11:41
Client Sample ID: 114122MAY03 Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	05/31/03 02:29 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 02:29 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 02:29 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 02:29 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	93	%		1.0	05/31/03 02:29 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105898 Project Sample Number: 6070863-004 Date Collected: 05/22/03 11:12
Client Sample ID: 111222MAY03 Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	05/31/03 03:27	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 03:27	SHF	100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 03:27	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 03:27	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	91	%		1.0	05/31/03 03:27	SHF	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRS NIA

Lab Sample No: 606105906 Project Sample Number: 6070863-005 Date Collected: 05/22/03 11:22
Client Sample ID: 112222MAY03 Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	05/31/03 03:56 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 03:56 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 03:56 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 03:56 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 03:56 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105914 Project Sample Number: 6070863-006 Date Collected: 05/22/03 10:52
Client Sample ID: 105222MAY03 Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	05/31/03 04:25 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 04:25 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 04:25 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 04:25 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	92	%		1.0	05/31/03 04:25 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

Lab Sample No: 606105922 Project Sample Number: 6070863-007 Date Collected: 05/22/03 11:51
Client Sample ID: 115122MAY03 Matrix: Water Date Received: 05/28/03 08:40

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	320	ug/l	5.0	2.5	06/02/03 12:01 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	05/31/03 04:53 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	05/31/03 04:53 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	05/31/03 04:53 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	89	%		1.0	05/31/03 04:53 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6070863
Client Project ID: SJBGW-PTRSNIA

QC Batch: 145741 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606105864 606105872 606105880 606105898 606105906
 606105914 606105922

METHOD BLANK: 606106888

Associated Lab Samples: 606105864 606105872 606105880 606105898 606105906 606105914 606105922

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	93		

LABORATORY CONTROL SAMPLE: 606106896

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	20.88	104	85-120	
Ethylbenzene	ug/l	20.00	19.72	99	87-114	
Toluene	ug/l	20.00	19.99	100	87-114	
Xylene (Total)	ug/l	60.00	61.49	102	88-115	
a,a,a-Trifluorotoluene (S)				91	86-115	1

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D)	Laboratory Control Sample (Duplicate)
MS(D)	Matrix Spike (Duplicate)
DUP	Sample Duplicate
ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
RPD	Relative Percent Difference
(S)	Surrogate
[1]	Insufficient sample volume received for the MS/MSD. Acceptable recovery of the LCS indicates the analytical system is in control.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

October 02, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6075062
Client Project ID: PTRN

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2003. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
mjwalls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6075062
Client Project ID: PTRN

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6075062-001	606461564	150517SEP03	Water	09/17/03 15:05	09/26/03 08:55
6075062-002	606461572	145617SEP03	Water	09/17/03 14:56	09/26/03 08:55
6075062-003	606461580	143417SEP03	Water	09/17/03 14:34	09/26/03 08:55
6075062-004	606461598	142417SEP03	Water	09/17/03 14:24	09/26/03 08:55
6075062-005	606461606	144417SEP03	Water	09/17/03 14:44	09/26/03 08:55

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062
Client Project ID: PTRN

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6075062-001	606461564	150517SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075062-002	606461572	145617SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075062-003	606461580	143417SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075062-004	606461598	142417SEP03	8020	WPAC	Aromatic Volatile Organics	5
6075062-005	606461606	144417SEP03	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062

Client Project ID: PTRN

Lab Sample No: 606461564

Project Sample Number: 6075062-001

Date Collected: 09/17/03 15:05

Client Sample ID: 150517SEP03

Matrix: Water

Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
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GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	1.0	09/29/03 18:33 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 18:33 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	09/29/03 18:33 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 18:33 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	97	%		1.0	09/29/03 18:33 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062
Client Project ID: PTRN

Lab Sample No: 606461572 Project Sample Number: 6075062-002 Date Collected: 09/17/03 14:56
Client Sample ID: 145617SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	190	ug/l	4.0	2.0	09/30/03 13:04 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 21:13 SHF		100-41-4		
Toluene	2.0	ug/l	2.0	1.0	09/29/03 21:13 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 21:13 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/29/03 21:13 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062
Client Project ID: PTRN

Lab Sample No: 606461580 Project Sample Number: 6075062-003 Date Collected: 09/17/03 14:34
Client Sample ID: 143417SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/30/03 13:31 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 21:45 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/29/03 21:45 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 21:45 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	09/29/03 21:45 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062

Client Project ID: PTRN

Lab Sample No: 606461598

Client Sample ID: 142417SEP03

Project Sample Number: 6075062-004

Matrix: Water

Date Collected: 09/17/03 14:24

Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/29/03 22:30 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 22:30 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/29/03 22:30 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 22:30 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/29/03 22:30 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6075062
Client Project ID: PTRN

Lab Sample No: 606461606 Project Sample Number: 6075062-005 Date Collected: 09/17/03 14:44
Client Sample ID: 144417SEP03 Matrix: Water Date Received: 09/26/03 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/29/03 22:57 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/29/03 22:57 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/29/03 22:57 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/29/03 22:57 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	09/29/03 22:57 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND	Not detected at or above adjusted reporting limit
NC	Not Calculable
J	Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL	Adjusted Method Detection Limit
(S)	Surrogate

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6075062
Client Project ID: PTRN

QC Batch: 154026 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606461564 606461572 606461580 606461598 606461606

METHOD BLANK: 606462091
Associated Lab Samples: 606461564 606461572 606461580 606461598 606461606

Parameter	Units	Blank	Reporting	Footnotes
		Result	Limit	
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	98		

LABORATORY CONTROL SAMPLE: 606462109

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	20.55	103	85-120	
Ethylbenzene	ug/l	20.00	19.54	98	87-114	
Toluene	ug/l	20.00	19.89	99	87-114	
Xylene (Total)	ug/l	60.00	57.46	96	88-115	
a,a,a-Trifluorotoluene (S)				95	86-115	1

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

- LCS(D) Laboratory Control Sample (Duplicate)
- MS(D) Matrix Spike (Duplicate)
- DUP Sample Duplicate
- ND Not detected at or above adjusted reporting limit
- NC Not Calculable
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
- MDL Adjusted Method Detection Limit
- RPD Relative Percent Difference
- (S) Surrogate
- [1] The MS and/or MSD compound(s) recovery information is not available due to insufficient sample volume. The LCS demonstrates the analytical system was in control for this QA/QC sample group.

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

December 15, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
188 C.R. 4900
Bloomfield, NM 87413

RE: Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 5, 2003. Results reported herein conform to the most current NELAP standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report please feel free to contact me.

Sincerely,

Mary Jane Walls
Mary Jane.Walls@pacelabs.com
Project Manager

Kansas/NELAP Certification Number E-10116

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Project	Sample				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6077257-001	606655827	111704DEC03	Water	12/04/03 11:17	12/05/03 09:20
6077257-002	606655835	120004DEC03	Water	12/04/03 12:00	12/05/03 09:20
6077257-003	606655843	113104DEC03	Water	12/04/03 11:31	12/05/03 09:20
6077257-004	606655850	114504DEC03	Water	12/04/03 11:45	12/05/03 09:20
6077257-005	606655868	123004DEC03	Water	12/04/03 12:30	12/05/03 09:20
6077257-006	606655876	121104DEC03	Water	12/04/03 12:11	12/05/03 09:20
6077257-007	606655884	122104DEC03	Water	12/04/03 12:21	12/05/03 09:20

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6077257-001	606655827	111704DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-002	606655835	120004DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-003	606655843	113104DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-004	606655850	114504DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-005	606655868	123004DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-006	606655876	121104DEC03	8020	WPAC	Aromatic Volatile Organics	5
6077257-007	606655884	122104DEC03	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655827 Project Sample Number: 6077257-001 Date Collected: 12/04/03 11:17
Client Sample ID: 111704DEC03 Matrix: Water Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 18:42		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 18:42		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 18:42		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 18:42		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	12/12/03 18:42		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077257

Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655835
Client Sample ID: 120004DEC03

Project Sample Number: 6077257-002
Matrix: Water

Date Collected: 12/04/03 12:00
Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 19:09		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 19:09		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 19:09		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 19:09		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	12/12/03 19:09		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077257

Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655843
Client Sample ID: 113104DEC03

Project Sample Number: 6077257-003
Matrix: Water

Date Collected: 12/04/03 11:31
Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 19:36		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 19:36		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 19:36		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 19:36		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/12/03 19:36		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655850 Project Sample Number: 6077257-004 Date Collected: 12/04/03 11:45
Client Sample ID: 114504DEC03 Matrix: Water Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 20:04		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 20:04		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 20:04		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 20:04		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/12/03 20:04		98-08-8		

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Lab Project Number: 6077257

Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655868
Client Sample ID: 123004DEC03

Project Sample Number: 6077257-005

Matrix: Water

Date Collected: 12/04/03 12:30

Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	58.	ug/l	2.0	1.0	12/12/03 20:31		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 20:31		100-41-4		
Toluene	2.2	ug/l	2.0	1.0	12/12/03 20:31		108-88-3		
Xylene (Total)	7.9	ug/l	5.0	1.0	12/12/03 20:31		1330-20-7		
a,a,a-Trifluorotoluene (S)	110	%		1.0	12/12/03 20:31		98-08-8		

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Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655876 Project Sample Number: 6077257-006 Date Collected: 12/04/03 12:11
Client Sample ID: 121104DEC03 Matrix: Water Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 21:26		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 21:26		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 21:26		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 21:26		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/12/03 21:26		98-08-8		

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Lab Project Number: 6077257

Client Project ID: SJB-GW PTRSN

Lab Sample No: 606655884
Client Sample ID: 122104DEC03

Project Sample Number: 6077257-007

Matrix: Water

Date Collected: 12/04/03 12:21

Date Received: 12/05/03 09:20

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/12/03 21:53		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/12/03 21:53		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/12/03 21:53		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/12/03 21:53		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	12/12/03 21:53		98-08-8		

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PARAMETER FOOTNOTES

Dilution factor shown represents the factor applied to the reported result and reporting limit due to changes in sample preparation, dilution of the extract, or moisture content

ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
(S) Surrogate

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QUALITY CONTROL DATA

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
Phone: 913.599.5665
Fax: 913.599.1759

Lab Project Number: 6077257
Client Project ID: SJB-GW PTRSN

QC Batch: 158915 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606655827 606655835 606655843 606655850 606655868
 606655876 606655884

METHOD BLANK: 606673432
Associated Lab Samples: 606655827 606655835 606655843 606655850 606655868 606655876 606655884

Parameter	Units	Blank Result	Reporting Limit	Footnotes
Benzene	ug/l	ND	2.0	
Ethylbenzene	ug/l	ND	2.0	
Toluene	ug/l	ND	2.0	
Xylene (Total)	ug/l	ND	5.0	
a,a,a-Trifluorotoluene (S)	%	103		

LABORATORY CONTROL SAMPLE: 606673440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	19.53	98	85-120	
Ethylbenzene	ug/l	20.00	20.63	103	87-114	
Toluene	ug/l	20.00	19.91	100	87-114	
Xylene (Total)	ug/l	60.00	62.71	105	88-115	
a,a,a-Trifluorotoluene (S)				102	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606674372 606674380

Parameter	Units	606655702 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.8969	20.00	20.00	19.99	96	95	82-121	0	16	
Ethylbenzene	ug/l	0	20.00	20.00	20.00	100	100	84-114	0	14	
Toluene	ug/l	0.09741	20.00	19.06	19.12	95	95	85-112	0	18	
Xylene (Total)	ug/l	0.07765	60.00	61.95	62.10	103	103	83-115	0	16	
a,a,a-Trifluorotoluene (S)						101	99	86-115			

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QUALITY CONTROL DATA PARAMETER FOOTNOTES

Consistent with EPA guidelines, unrounded concentrations are displayed and have been used to calculate % Rec and RPD values.

LCS(D) Laboratory Control Sample (Duplicate)
MS(D) Matrix Spike (Duplicate)
DUP Sample Duplicate
ND Not detected at or above adjusted reporting limit
NC Not Calculable
J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit
MDL Adjusted Method Detection Limit
RPD Relative Percent Difference
(S) Surrogate

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