

3R – 317

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 a horizontal line.

Mark Harvey
Project Coordinator

Enclosure -- 2003 Ground Water Summary Report

Cc: Bill Liess, BLM Farmington Office

Site Summary Report

Site Name: Florance 47X

Reporting Period: 2003

Location: Unit G, Sec 5, Twn 30N, Rng 8W

Canyon: Crow

Operator: Amoco

Vulnerable Class: original

OCD Ranking: 10

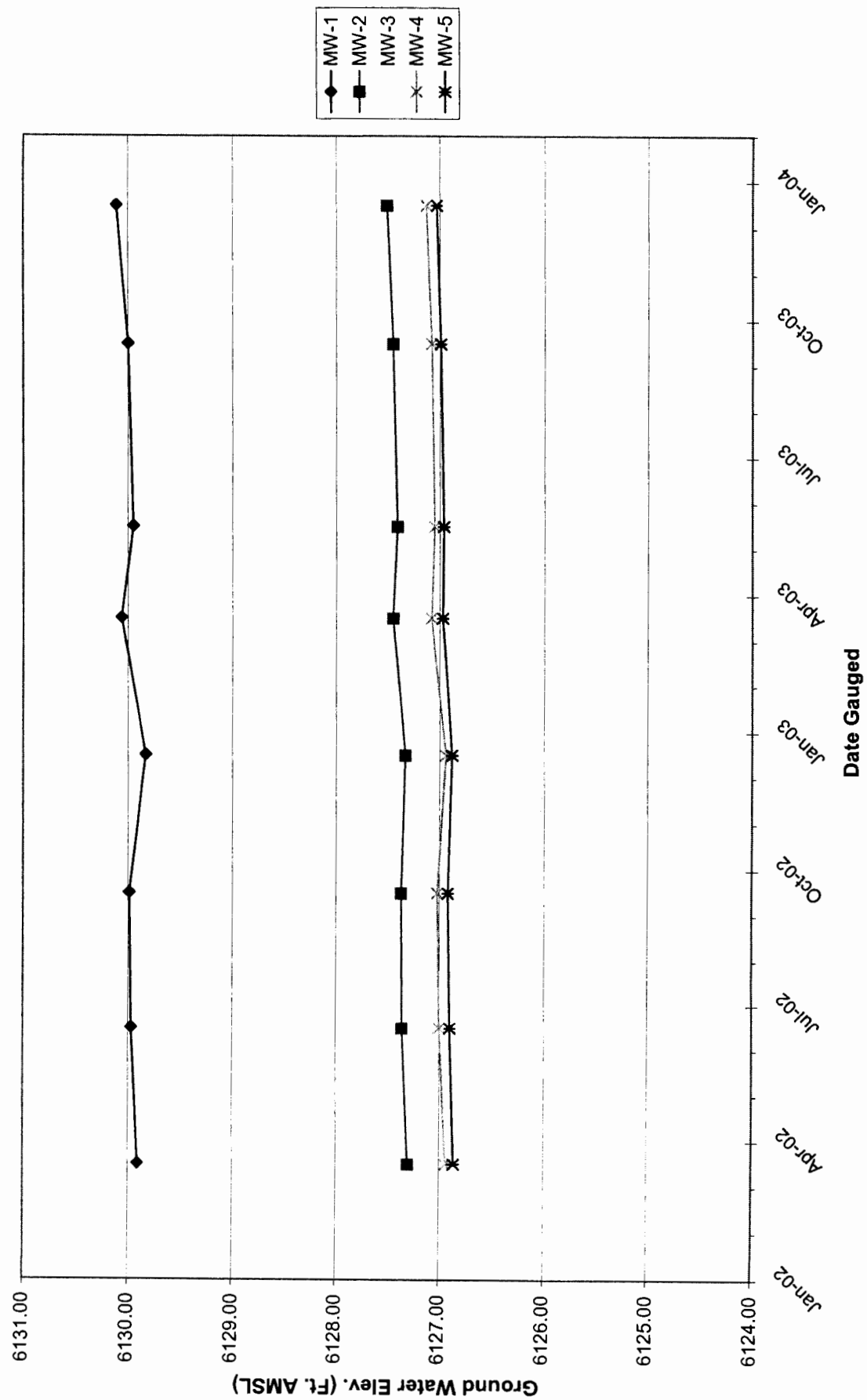
Lead Agency: NMOCD

Status Narrative

Twenty-five quarters of water quality data have been collected from the five monitoring wells located at this site. Monitoring well MW-3 is currently the only well with accumulations of LNAPL. A total of approximately 6-liters of LNAPL has been recovered to date. Concentrations of dissolved BTEX in upgradient well MW-1 remained below WQCC standards throughout the year. Concentrations of total BTEX in source area well MW-2 ranged from 11,540 ppb to 19,530 ppb. Downgradient well MW-5 continues to demonstrate a decreasing trend in total BTEX levels. Concentrations ranged from non-detect to 140.0 ppb. In down and cross-gradient well MW-4 benzene was above the WQCC standard during the first quarter only.

Potentiometric surface maps (Figure 2) depict ground water flow to the south-southeast at an average hydraulic gradient of 0.02. No significant seasonal variations in flow direction or gradient are evident. The enclosed hydrograph illustrates a stable ground water elevation pattern over the past two years.

Florance M 47X Hydrograph



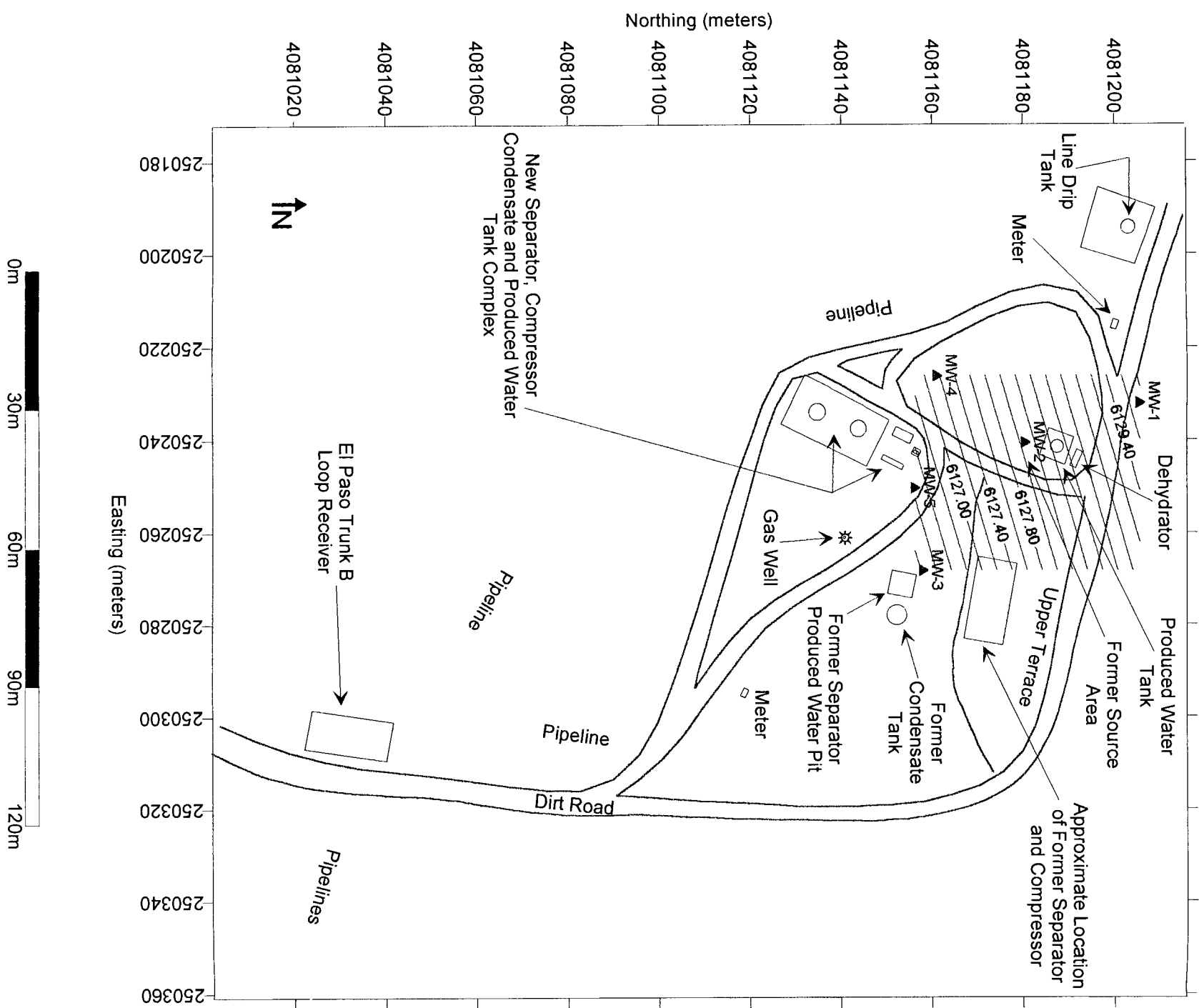


Figure 2
Potentiometric
Surface Map
Florence 47X
(March 31, 2003)

LEGEND

2-7-11

Monitoring Well

Ground Water Elevation (ft. AMSL)

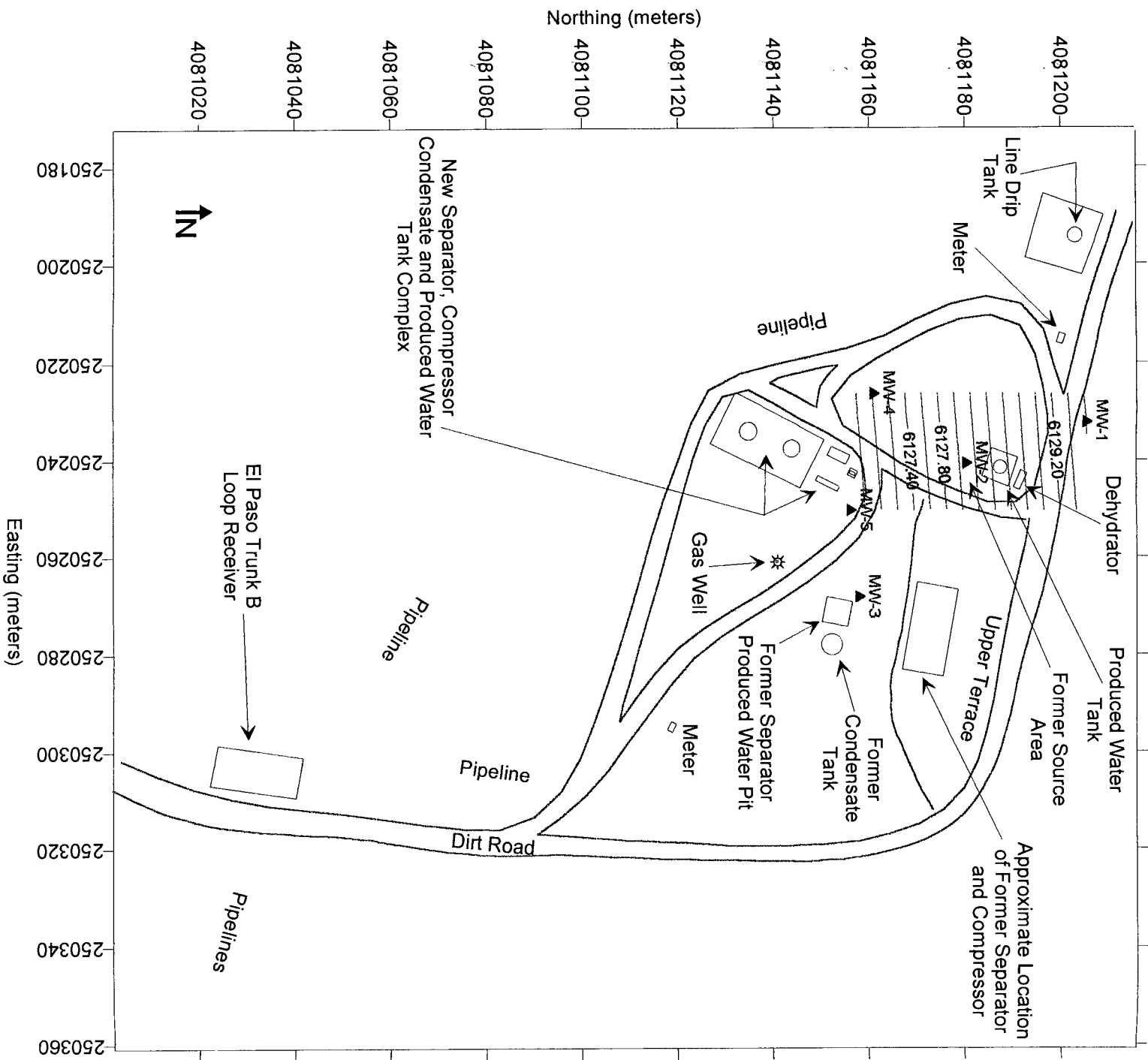


Figure 2
Potentiometric
Surface Map
Florence 47X
(May 27, 2003)

LEGEND

- MW-2 ▲ Monitoring Well
- 5585.20 — Ground Water Elevation (ft. AMSL)

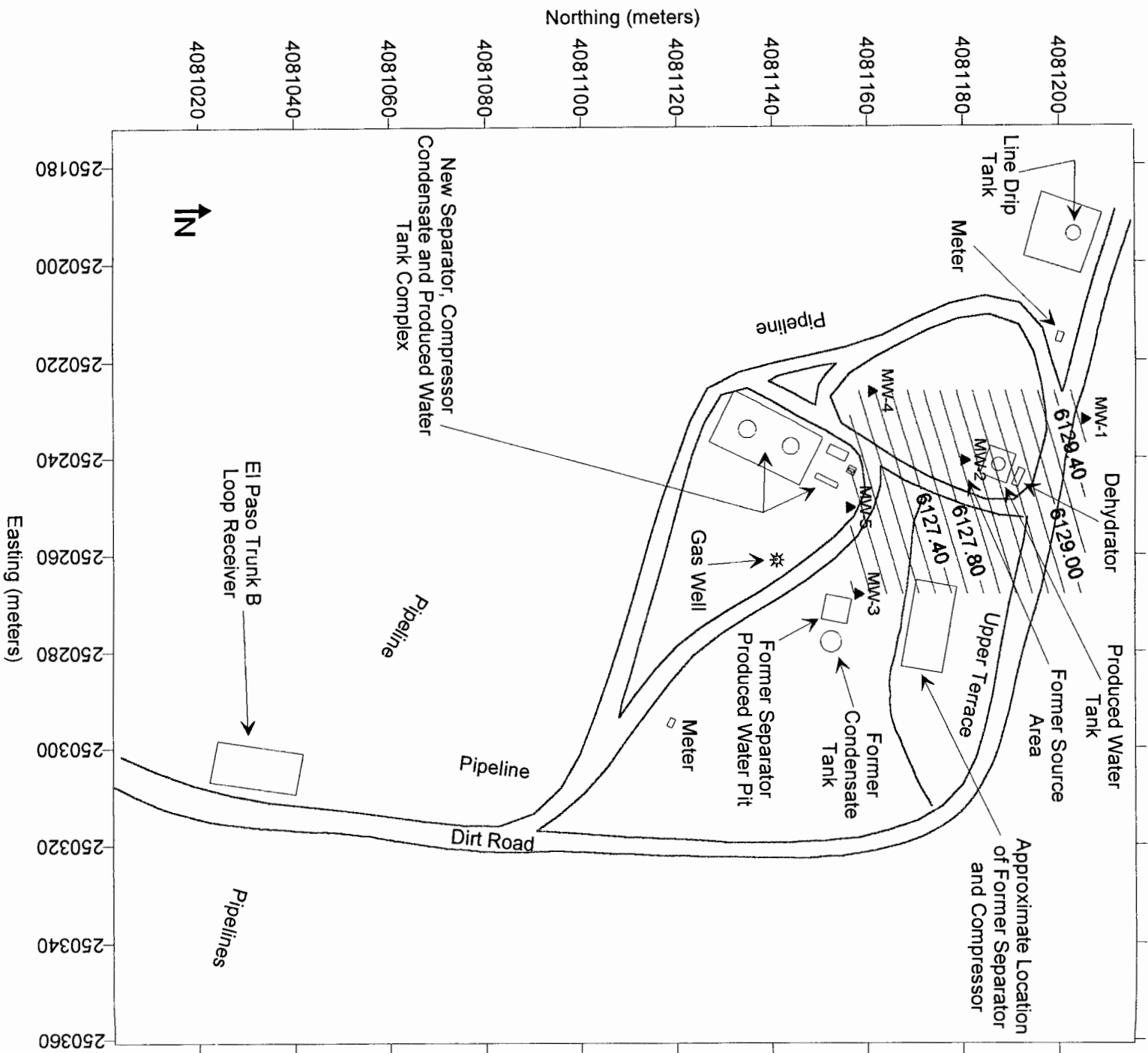


Figure 2
Potentiometric
Surface Map
Florance 47X
(September 15, 2003)

LEGEND

- MW-2
- ▲ Monitoring Well
- 5585.20 — Ground Water Elevation (ft. AMSL)

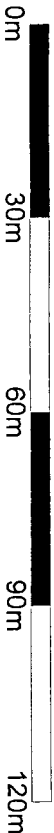
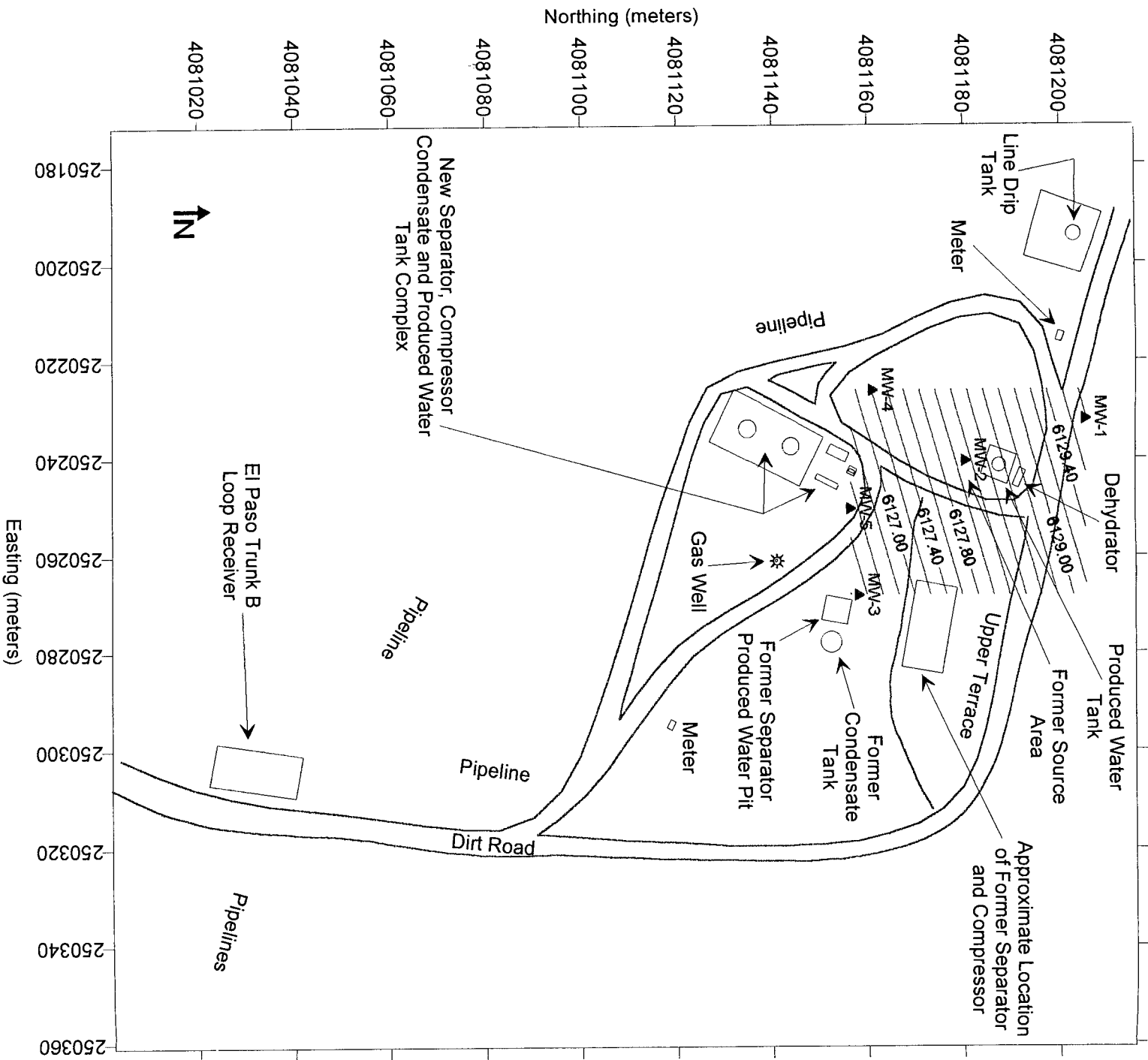


Figure 2
Potentiometric
Surface Map
Florance 47X
(December 2, 2003)

LEGEND

- MW-2 ▲ Monitoring Well
- 5585.20 — Ground Water Elevation (ft. AMSL)

Analytical Data Summary

Site Name:

Florance M 47X

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						
	3/31/03	143331MAR03	ND	ND	ND	ND
	5/27/03	131527MAY03	ND	ND	ND	ND
	9/15/03	101615SEP03	2.3	ND	ND	ND
	12/2/03	153102DEC03	ND	ND	ND	ND
MW-2						
	3/31/03	150131MAR03	5500	270	570	5200
	5/27/03	134627MAY03	10000	87.	330	4500
	9/15/03	105515SEP03	11000	ND	730	7800
	12/2/03	155402DEC03	11000	ND	540	6400
MW-3						
	3/31/03	144431MAR03	15.	21.	ND	28.
	5/27/03	132627MAY03	7.1	2.8	ND	8.0
	9/15/03	103115SEP03	6.2	ND	ND	10.
	12/2/03	151502DEC03	2.3	2.7	ND	6.5
MW-5						
	3/31/03	145431MAR03	54.	45.	2.9	39.
	5/27/03	133427MAY03	14.	2.1	ND	ND
	9/15/03	104115SEP03	ND	ND	ND	ND
	12/2/03	154002DEC03	41.	7.9	3.1	10.



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

April 10, 2003

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

RE: Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

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: 6069051
Client Project ID: SJB-GW/FLRN47X

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>
6069051-001	605957059	145431MAR03	Water	03/31/03 14:54	04/02/03 09:30
6069051-002	605957067	150131MAR03	Water	03/31/03 15:01	04/02/03 09:30
6069051-003	605957075	143331MAR03	Water	03/31/03 14:33	04/02/03 09:30
6069051-004	605957083	144431MAR03	Water	03/31/03 14:44	04/02/03 09:30

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

Lab Sample No: 605957059 Project Sample Number: 6069051-001 Date Collected: 03/31/03 14:54
Client Sample ID: 145431MAR03 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	54.	ug/l	2.0	1.0	04/08/03 00:32	DCKI	71-43-2		
Ethylbenzene	2.9	ug/l	2.0	1.0	04/08/03 00:32	DCKI	100-41-4		
Toluene	45.	ug/l	2.0	1.0	04/08/03 00:32	DCKI	108-88-3		
Xylene (Total)	39.	ug/l	5.0	1.0	04/08/03 00:32	DCKI	1330-20-7		
a,a,a-Trifluorotoluene (S)	112	%		1.0	04/08/03 00:32	DCKI	98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

Lab Sample No: 605957067 Project Sample Number: 6069051-002 Date Collected: 03/31/03 15:01
Client Sample ID: 150131MAR03 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	5500	ug/l	100	50.0	04/08/03 07:54	DCKI	71-43-2		
Ethylbenzene	570	ug/l	40.	20.0	04/08/03 01:01	DCKI	100-41-4		
Toluene	270	ug/l	40.	20.0	04/08/03 01:01	DCKI	108-88-3		
Xylene (Total)	5200	ug/l	100	20.0	04/08/03 01:01	DCKI	1330-20-7		
a,a,a-Trifluorotoluene (S)	111	%		1.0	04/08/03 01:01	DCKI	98-08-8		

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Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

Lab Sample No: 605957075 Project Sample Number: 6069051-003 Date Collected: 03/31/03 14:33
Client Sample ID: 143331MAR03 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	04/08/03 01:30	DCKI	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/08/03 01:30	DCKI	100-41-4		
Toluene	ND	ug/l	2.0	1.0	04/08/03 01:30	DCKI	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	04/08/03 01:30	DCKI	1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		1.0	04/08/03 01:30	DCKI	98-08-8		

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Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

Lab Sample No: 605957083 Project Sample Number: 6069051-004 Date Collected: 03/31/03 14:44
Client Sample ID: 144431MAR03 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	15.	ug/l	2.0	1.0	04/08/03 01:59	DCI	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	04/08/03 01:59	DCI	100-41-4		
Toluene	21.	ug/l	2.0	1.0	04/08/03 01:59	DCI	108-88-3		
Xylene (Total)	28.	ug/l	5.0	1.0	04/08/03 01:59	DCI	1330-20-7		
a,a,a-Trifluorotoluene (S)	114	%		1.0	04/08/03 01:59	DCI	98-08-8		

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Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

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

Lab Project Number: 6069051
Client Project ID: SJB-GW/FLRN47X

QC Batch: 142345 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605957059 605957067 605957075 605957083

METHOD BLANK: 605966589
Associated Lab Samples: 605957059 605957067 605957075 605957083

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)	%	107		

LABORATORY CONTROL SAMPLE: 605966597

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	19.58	98	85-120	
Ethylbenzene	ug/l	20.00	19.93	100	87-114	
Toluene	ug/l	20.00	20.06	100	87-114	
Xylene (Total)	ug/l	60.00	60.17	100	88-115	
a,a,a-Trifluorotoluene (S)				107	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605971423 605971431

Parameter	Units	605964543	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	24.91	20.00	41.92	42.35	85	87	82-121	1	16
Ethylbenzene	ug/l	0	20.00	20.80	20.65	104	103	84-114	1	14
Toluene	ug/l	7.264	20.00	21.12	20.85	69	68	85-112	1	18 1,1
Xylene (Total)	ug/l	4.473	60.00	63.17	62.68	98	97	83-115	1	16
a,a,a-Trifluorotoluene (S)						106	107	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
[1] Matrix (MS) and or surrogate spike recovery (S) was affected by the sample matrix. Refer to the batch QC recoveries (Blank and LCS) to demonstrate that the analytical system was operating in control.

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

June 10, 2003

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

RE: Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 5, 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,

For: 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: 6071176
Client Project ID: SJBGW-FLRN47X

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>
6071176-001	606131647	131527MAY03	Water	05/27/03 13:15	06/05/03 09:15
6071176-002	606131654	134627MAY03	Water	05/27/03 13:46	06/05/03 09:15
6071176-003	606131662	132627MAY03	Water	05/27/03 13:26	06/05/03 09:15
6071176-004	606131670	133427MAY03	Water	05/27/03 13:34	06/05/03 09:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

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

Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6071176-001	606131647	131527MAY03	8020	WPAC	Aromatic Volatile Organics	5
6071176-002	606131654	134627MAY03	8020	WPAC	Aromatic Volatile Organics	5
6071176-003	606131662	132627MAY03	8020	WPAC	Aromatic Volatile Organics	5
6071176-004	606131670	133427MAY03	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

Lab Sample No: 606131647	Project Sample Number: 6071176-001	Date Collected: 05/27/03 13:15
Client Sample ID: 131527MAY03	Matrix: Water	Date Received: 06/05/03 09:15

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	06/06/03 19:39 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 19:39 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	06/06/03 19:39 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 19:39 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	06/06/03 19:39 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

Lab Sample No: 606131654 Project Sample Number: 6071176-002 Date Collected: 05/27/03 13:46
Client Sample ID: 134627MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	10000	ug/l	100	50.0	06/09/03 16:45 SHF		71-43-2		
Ethylbenzene	330	ug/l	50.	25.0	06/06/03 20:08 SHF		100-41-4		
Toluene	87.	ug/l	50.	25.0	06/06/03 20:08 SHF		108-88-3		
Xylene (Total)	4500	ug/l	120	25.0	06/06/03 20:08 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	06/06/03 20:08 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071176

Client Project ID: SJBGW-FLRN47X

Lab Sample No: 606131662

Project Sample Number: 6071176-003

Date Collected: 05/27/03 13:26

Client Sample ID: 132627MAY03

Matrix: Water

Date Received: 06/05/03 09:15

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	7.1	ug/l	2.0	1.0	06/06/03 20:36 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 20:36 SHF		100-41-4		
Toluene	2.8	ug/l	2.0	1.0	06/06/03 20:36 SHF		108-88-3		
Xylene (Total)	8.0	ug/l	5.0	1.0	06/06/03 20:36 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		1.0	06/06/03 20:36 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

Lab Sample No: 606131670 Project Sample Number: 6071176-004 Date Collected: 05/27/03 13:34
Client Sample ID: 133427MAY03 Matrix: Water Date Received: 06/05/03 09:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	14.	ug/l	2.0	1.0	06/06/03 21:05 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	06/06/03 21:05 SHF		100-41-4		
Toluene	2.1	ug/l	2.0	1.0	06/06/03 21:05 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	06/06/03 21:05 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	06/06/03 21:05 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

Lab Project Number: 6071176
Client Project ID: SJBGW-FLRN47X

QC Batch: 146380 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606131647 606131654 606131662 606131670

METHOD BLANK: 606132207
Associated Lab Samples: 606131647 606131654 606131662 606131670

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)	%	107		

LABORATORY CONTROL SAMPLE: 606132215

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	21.29	106	85-120	
Ethylbenzene	ug/l	20.00	20.14	101	87-114	
Toluene	ug/l	20.00	20.38	102	87-114	
Xylene (Total)	ug/l	60.00	62.76	105	88-115	
a,a,a-Trifluorotoluene (S)				102	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606134096 606134104

Parameter	Units	606130391	Spike	MS	MSD	MS	MSD	% Rec	Max	Footnotes
		Result	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Benzene	ug/l	0.5444	20.00	22.13	23.04	108	112	82-121	4	16
Ethylbenzene	ug/l	0.8704	20.00	20.16	21.10	96	101	84-114	5	14
Toluene	ug/l	0	20.00	21.21	22.01	106	110	85-112	4	18
Xylene (Total)	ug/l	0.7608	60.00	60.03	62.88	99	104	83-115	5	16
a,a,a-Trifluorotoluene (S)						100	102	86-115		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6071176

Client Project ID: SJBGW-FLRN47X

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

September 26, 2003

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

RE: Lab Project Number: 6074785
Client Project ID: FLR47X

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 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: 6074785
Client Project ID: FLR47X

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>
6074785-001	606436236	101615SEP03	Water	09/15/03 10:16	09/19/03 08:30
6074785-002	606436293	105515SEP03	Water	09/15/03 10:55	09/19/03 08:30
6074785-003	606436301	103115SEP03	Water	09/15/03 10:31	09/19/03 08:30
6074785-004	606436319	104115SEP03	Water	09/15/03 10:41	09/19/03 08:30

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074785
Client Project ID: FLR47X

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6074785-001	606436236	101615SEP03	8020	WPAC	Aromatic Volatile Organics	5
6074785-002	606436293	105515SEP03	8020	WPAC	Aromatic Volatile Organics	5
6074785-003	606436301	103115SEP03	8020	WPAC	Aromatic Volatile Organics	5
6074785-004	606436319	104115SEP03	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074785
Client Project ID: FLR47X

Lab Sample No: 606436236 Project Sample Number: 6074785-001 Date Collected: 09/15/03 10:16
Client Sample ID: 101615SEP03 Matrix: Water Date Received: 09/19/03 08:30

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	2.3	ug/l	2.0	1.0	09/22/03 16:53 SHF	71-43-2	1		
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 16:53 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	09/22/03 16:53 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	09/22/03 16:53 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	100	%		1.0	09/22/03 16:53 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074785
Client Project ID: FLR47X

Lab Sample No: 606436293 Project Sample Number: 6074785-002 Date Collected: 09/15/03 10:55
Client Sample ID: 105515SEP03 Matrix: Water Date Received: 09/19/03 08:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	11000	ug/l	200	100	09/23/03 11:17 SHF		71-43-2		
Ethylbenzene	730	ug/l	200	100	09/23/03 11:17 SHF		100-41-4		
Toluene	ND	ug/l	200	100	09/23/03 11:17 SHF		108-88-3		
Xylene (Total)	7800	ug/l	500	100	09/23/03 11:17 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	09/23/03 11:17 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074785
Client Project ID: FLR47X

Lab Sample No: 606436301 Project Sample Number: 6074785-003 Date Collected: 09/15/03 10:31
Client Sample ID: 103115SEP03 Matrix: Water Date Received: 09/19/03 08:30

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

GC Volatiles

Aromatic Volatile Organics	Method: EPA 8021								
Benzene	6.2	ug/l	2.0	1.0	09/23/03 11:44 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 17:48 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	09/22/03 17:48 SHF	108-88-3			
Xylene (Total)	10.	ug/l	5.0	1.0	09/23/03 11:44 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	114	%		1.0	09/22/03 17:48 SHF	98-08-8			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6074785
Client Project ID: FLR47X

Lab Sample No: 606436319 Project Sample Number: 6074785-004 Date Collected: 09/15/03 10:41
Client Sample ID: 104115SEP03 Matrix: Water Date Received: 09/19/03 08:30

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	09/22/03 18:15 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/22/03 18:15 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/22/03 18:15 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/22/03 18:15 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	09/22/03 18:15 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
[1] Confirmed by second analysis.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6074785
Client Project ID: FLR47X

QC Batch: 153543 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606436236 606436293 606436301 606436319

METHOD BLANK: 606440816
Associated Lab Samples: 606436236 606436293 606436301 606436319

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)	%	101		

LABORATORY CONTROL SAMPLE: 606440824

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.35	102	85-120	
Ethylbenzene	ug/l	20.00	19.89	99	87-114	
Toluene	ug/l	20.00	19.79	99	87-114	
Xylene (Total)	ug/l	60.00	60.79	101	88-115	
a,a,a-Trifluorotoluene (S)				96	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606442028 606442036

Parameter	Units	606436095 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.1547	20.00	19.67	19.48	98	97	82-121	1	16	
Ethylbenzene	ug/l	0.2368	20.00	20.23	19.90	100	98	84-114	2	14	
Toluene	ug/l	0	20.00	19.87	19.42	99	97	85-112	2	18	
Xylene (Total)	ug/l	0.1032	60.00	61.51	60.78	102	101	83-115	1	16	
a,a,a-Trifluorotoluene (S)						99	97	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

December 15, 2003

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

RE: Lab Project Number: 6077258
Client Project ID: SJB-GQ FLR47X

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 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
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: 6077258
Client Project ID: SJB-GQ FLR47X

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>
6077258-001	606655892	155402DEC03	Water	12/02/03 15:54	12/05/03 09:20
6077258-002	606655900	151502DEC03	Water	12/02/03 15:15	12/05/03 09:20
6077258-003	606655918	154002DEC03	Water	12/02/03 15:40	12/05/03 09:20
6077258-004	606655926	153102DEC03	Water	12/02/03 15:31	12/05/03 09:20

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077258
Client Project ID: SJB-GQ FLR47X

Project			Analysis		Analytes	
<u>Sample Number</u>	<u>Sample No</u>	<u>Client Sample ID</u>	<u>Code</u>	<u>Analysis Description</u>	<u>Reported</u>	
6077258-001	606655892	155402DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077258-002	606655900	151502DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077258-003	606655918	154002DEC03	8020 WPAC	Aromatic Volatile Organics	5	
6077258-004	606655926	153102DEC03	8020 WPAC	Aromatic Volatile Organics	5	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077258
Client Project ID: SJB-GQ FLR47X

Lab Sample No: 606655892
Client Sample ID: 155402DEC03

Project Sample Number: 6077258-001
Matrix: Water
Date Collected: 12/02/03 15:54
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	11000	ug/l	200	100	12/11/03 11:08		71-43-2		
Ethylbenzene	540	ug/l	100	50.0	12/11/03 11:36		100-41-4		
Toluene	ND	ug/l	100	50.0	12/11/03 11:36		108-88-3		
Xylene (Total)	6400	ug/l	250	50.0	12/11/03 11:36		1330-20-7		
a,a,a-Trifluorotoluene (S)	108	%		1.0	12/11/03 11:36		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077258
Client Project ID: SJB-GQ FLR47X

Lab Sample No: 606655900 Project Sample Number: 6077258-002 Date Collected: 12/02/03 15:15
Client Sample ID: 151502DEC03 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	2.3	ug/l	2.0	1.0	12/11/03 14:20		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/11/03 14:20		100-41-4		
Toluene	2.7	ug/l	2.0	1.0	12/11/03 14:20		108-88-3		
Xylene (Total)	6.5	ug/l	5.0	1.0	12/11/03 14:20		1330-20-7		
a,a,a-Trifluorotoluene (S)	122	%		1.0	12/11/03 14:20		98-08-8	1	

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077258
Client Project ID: SJB-GQ FLR47X

Lab Sample No: 606655918 Project Sample Number: 6077258-003 Date Collected: 12/02/03 15:40
Client Sample ID: 154002DEC03 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	41.	ug/l	2.0	1.0	12/10/03 16:36		71-43-2		
Ethylbenzene	3.1	ug/l	2.0	1.0	12/10/03 16:36		100-41-4		
Toluene	7.9	ug/l	2.0	1.0	12/10/03 16:36		108-88-3		
Xylene (Total)	10.	ug/l	5.0	1.0	12/10/03 16:36		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		1.0	12/10/03 16:36		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6077258

Client Project ID: SJB-GQ FLR47X

Lab Sample No: 606655926
Client Sample ID: 153102DEC03

Project Sample Number: 6077258-004
Matrix: Water

Date Collected: 12/02/03 15:31
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	12/10/03 18:02		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/10/03 18:02		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/10/03 18:02		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/10/03 18:02		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	12/10/03 18:02		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
[1]	High surrogate recovery was confirmed as a matrix effect by a second analysis.

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: 6077258

Client Project ID: SJB-GQ FLR47X

QC Batch: 158788 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 606655892 606655900 606655918 606655926

METHOD BLANK: 606667962
Associated Lab Samples: 606655892 606655900 606655918 606655926

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)	%	100		

LABORATORY CONTROL SAMPLE: 606667970

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	18.75	94	85-120	
Ethylbenzene	ug/l	20.00	19.46	97	87-114	
Toluene	ug/l	20.00	19.01	95	87-114	
Xylene (Total)	ug/l	60.00	59.97	100	88-115	
a,a,a-Trifluorotoluene (S)				101	86-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 606668903 606668911

Parameter	Units	606654820 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.09628	20.00	19.38	19.17	96	95	82-121	1	16	
Ethylbenzene	ug/l	0	20.00	19.13	19.53	96	98	84-114	2	14	
Toluene	ug/l	0	20.00	18.94	19.26	95	96	85-112	2	18	
Xylene (Total)	ug/l	0	60.00	58.04	59.48	97	99	83-115	2	16	
a,a,a-Trifluorotoluene (S)						101	101	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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