

3RP-322

Reports

Date: 2002

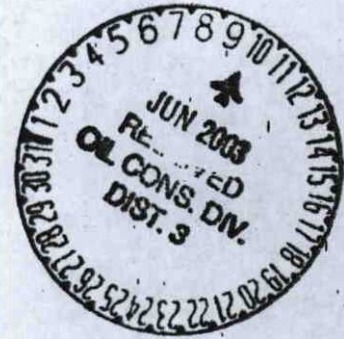


Environmental Services
188 County Road 4900
Bloomfield, New Mexico 87413
(505) 634-4956 (office)
(505) 632-4781 (fax)

June 6, 2003

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

District Copy
For Scanning Only
Has NOT been processed.



RE: 2002 GROUND WATER SUMMARY REPORT

Dear Mr. Olson:

Enclosed for your review is the 2002 Ground Water Summary Report. The report presents monitoring data for eleven sites having petroleum hydrocarbon impacted ground water, which resulted from the past use of unlined surface impoundments. The sites included in the report are listed in Table 1.

In 2002, seven sites achieved four or more consecutive quarters of water quality data meeting NMWQCC standards for BTEX. Williams submitted final closure reports for four of these sites and has received OCD closure approval on three of the sites. At your request, Williams has submitted a revised potentiometric surface map for the fourth site to allow completion of the OCD review. Final closure reports for the remaining three sites are currently being prepared and will be submitted soon. Table 2 lists the sites that have met the cleanup objectives in 2002.

Of the eleven active sites, seven have accumulations of LNAPL in one or more monitoring well. In 2002, passive collection devices were deployed in all wells containing measurable accumulations of LNAPL. Periodic emptying of the collection devices along with active bailing of LNAPL during the quarterly sampling events continues.

The remaining four active sites consist of three sites with concentrations of dissolved BTEX in excess of cleanup standards. At each of these sites, only the source area well exceeds the standards. The fourth site, Wilmerding 1M, has had dry wells since May 2001. The samples collected at that time contained no detectable BTEX. The hay field surrounding this site is being irrigated this season and it is anticipated that ground water levels will rise sufficiently to allow sample collection.

Thank you for your time to review this submittal. If you have any questions regarding the report, you may call me at (505) 634-4956.

Respectfully,

James P. Struhs 6/6/03
JAMES P. STRUHS
(FOR MARK B. HARVEY)

Mark B. Harvey
Project Manager

Attachments
Enclosure

c: Denny Foust, OCD Aztec District Office
Bill Liess, BLM Farmington District Office

Table 1. List of Active Sites for 2002 Report

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification
1	Chamberlain 1	F	14	32N	12W	-108.068853	36.990549	30-Sep-99
2	Davis 1	E	11	31N	12W	-108.068919	36.916257	2-Mar-99
3	Dogie East Pit	D	4	25N	6W	-107.478874	36.434196	7-Jul-97
4	Florance 40	G	21	30N	8W	-107.67775	36.800088	27-Jan-97
5	Florance M 47X	G	5	30N	9W	-107.799823	36.843166	27-Jan-97
6	Honolulu Drip	B	15	26N	4W	-107.238469	36.492341	18-Jun-96
7	Ice Canyon Drip	J	13	26N	7W	-107.52226	36.484972	1-Dec-97
8	Jicarilla Contract 147-6	C	6	25N	5W	-107.402363	36.433963	13-Aug-98
9	Patterson A Com A1	G	2	31N	12W	-108.061165	36.930755	2-Mar-99
10	Pritchard 2	J	6	30N	8W	-107.712068	36.837817	22-Feb-99
11	Wilmerding 1M	C	10	31N	13W	-108.193158	36.91846	5-Jun-98

Table 2. List of Sites Closed in 2002

Count	Site Name	Unit Letter	Section	Township	Range	Longitude	Latitude	OCD Initial Notification	Status
1	Blanco Wash Drip	J	31	27N	8W	-107.721574	36.530995	19-Feb-99	Approved
2	Dogie North Pit	D	4	25N	6W	-107.479158	36.435784	7-Jul-97	Report Pending
3	Florance 124	C	27	29N	9W	-107.76698	36.70209	12-Aug-96	Pending Approval
4	Grenier 4A	M	7	31N	11W	-108.036001	36.910167	18-Oct-99	Report Pending
5	Kaufman 1	H	33	31N	13W	-108.202128	36.860121	9-Mar-00	Approved
6	O' Shea 1M	F	3	31N	13W	-108.193596	36.932228	6-Jun-98	Report Pending
7	Zachry 18E	O	11	28N	10W	-107.860007	36.670885	6-Sep-96	Approved

Site Summary Report

Site Name: Ice Canyon Drip

Reporting Period: 2002

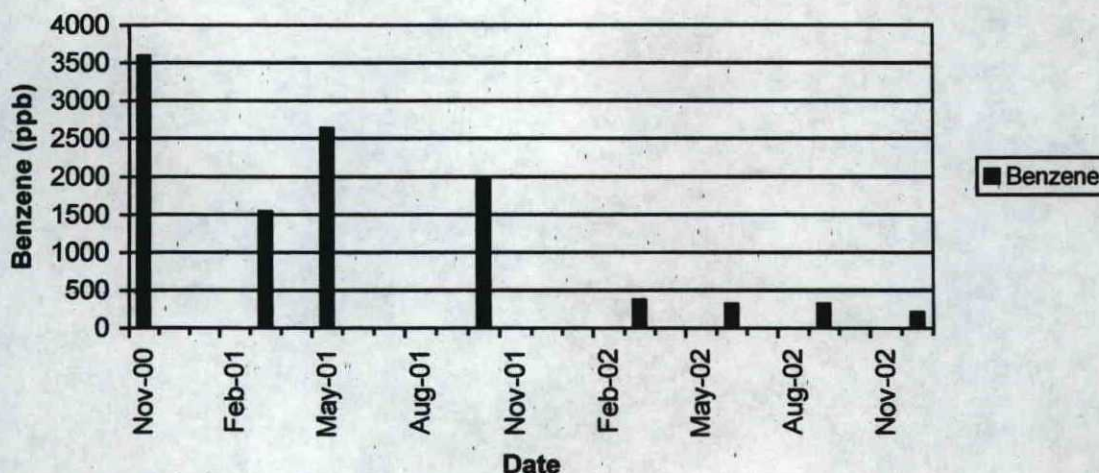
Location: Unit B, Sec 15, Twn 26N, Rng 6W
Canyon: Largo
Operator: Williams

Vulnerable Class: original
OCD Ranking: 40
Lead Agency: NMOCD

Status Narrative

This site has eight monitoring wells and one 4-inch well installed as part of a soil-vapor extraction pilot study conducted by PNM. To date, seventeen quarters of monitoring have been completed. Accumulations of LNAPL are present only in the 4-inch well. Approximately 2.7 liters of LNAPL have been recovered. A plot of LNAPL thickness in the 4-inch well over time is enclosed. The source area well, MW-2, contains dissolved benzene at levels in excess of WQCC cleanup standards. The chart below shows the reduction in benzene levels over the last two years.

Benzene Concentrations in MW-2

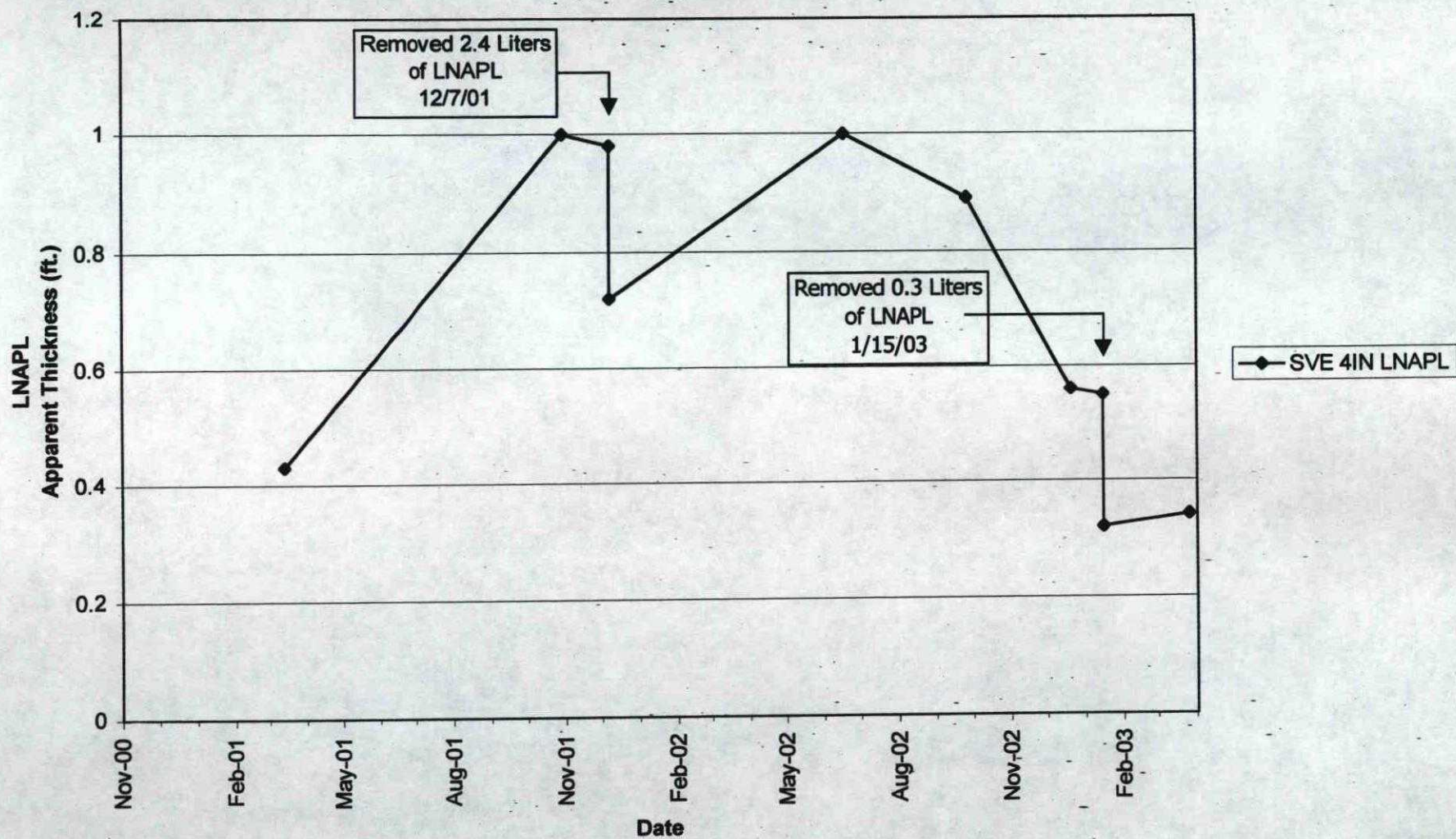


In the last quarter, downgradient well MW-4 and MW-6 both contained benzene at levels in excess of WQCC standards. Samples from well MW-8, the furthest downgradient well, have never had any of the BTEX constituents detected. Concentrations of BTEX in well MW-5 have remained below the cleanup standards for the past five quarters.

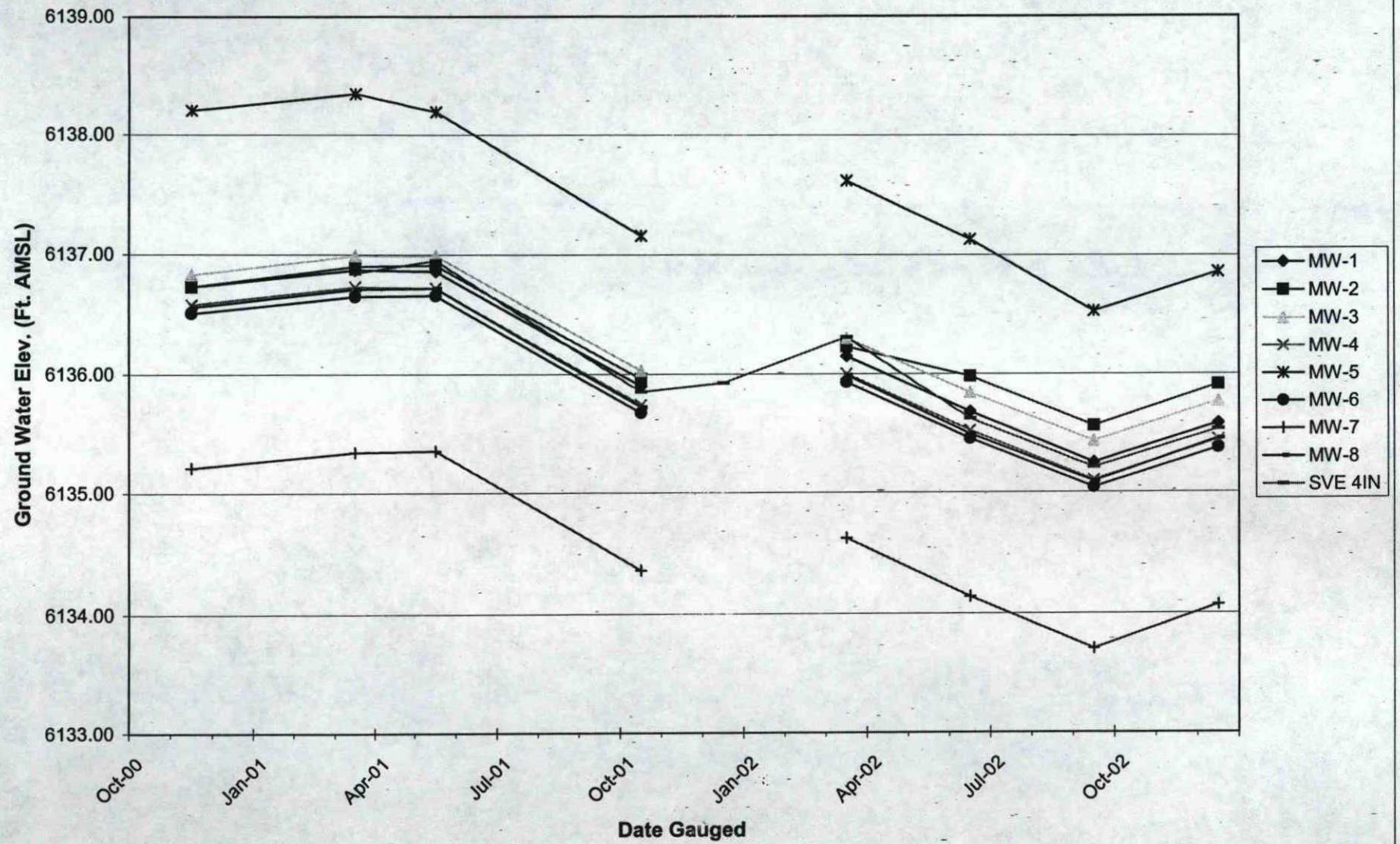
Potentiometric surface maps (Figure 2) depict a south by west ground water flow direction at an average hydraulic gradient of 0.003. No significant seasonal variations in flow direction or gradient are evident. The hydrograph for the monitoring period illustrates the seasonal fluctuations in water-table elevations.



**Ice Canyon Drip
LNAPL Thickness**



Ice Canyon Drip Hydrograph



Analytical Data Summary

Site Name:

Ice Canyon Drip

Reporting Period:

1/1/02 To 12/31/02

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	3/25/02	130825MAR02	ND	ND	ND	ND
	6/17/02	121417JUN02	ND	ND	ND	ND
	12/20/02	140520DEC02	ND	ND	ND	ND
MW-2						
	3/25/02	132025MAR02	370	16.	70.	330
	6/17/02	131017JUN02	320	ND	65.	150
	9/26/02	135426SEP02	320	4.6	49.	210
	12/20/02	143220DEC02	210	16.	43.	300
MW-3						
	3/25/02	131625MAR02	ND	ND	ND	ND
	6/17/02	125417JUN02	ND	ND	ND	ND
	12/20/02	142720DEC02	ND	ND	ND	ND
MW-4						
	3/25/02	130325MAR02	5.1	2.0	ND	ND
	6/17/02	125917JUN02	ND	ND	ND	ND
	9/26/02	133326SEP02	29.	20.	2.5	28.
	12/20/02	142220DEC02	16.	18.	2.3	28.
MW-5						
	3/25/02	125725MAR02	2.0	ND	ND	ND
	6/17/02	130417JUN02	ND	ND	ND	ND
	9/26/02	132626SEP02	ND	3.6	ND	ND
	12/20/02	141820DEC02	6.0	4.9	ND	ND
MW-6						
	3/25/02	124725MAR02	280	7.3	170	1700
	6/17/02	124217JUN02	220	2.1	140	670
	12/20/02	143920DEC02	89.	8.1	110	1300
MW-7						
	3/25/02	125325MAR02	ND	ND	ND	ND
	6/17/02	124817JUN02	ND	ND	ND	11.
	12/20/02	141420DEC02	ND	ND	ND	ND
MW-8						
	3/25/02	124225MAR02	ND	ND	ND	ND
	6/17/02	123417JUN02	ND	ND	ND	ND
	9/26/02	131526SEP02	ND	ND	ND	ND
	12/20/02	140920DEC02	ND	ND	ND	ND

January 06, 2003

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

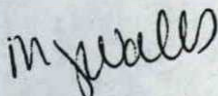
RE: Lab Project Number: 6066149
Client Project ID: SJB-GW/ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 26, 2002. 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
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: 6066149

Client Project ID: SJB-GW/ICE

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6066149-001	605710193	140920DEC02	Water	12/20/02 14:09	12/26/02 08:55
6066149-002	605710201	141420DEC02	Water	12/20/02 14:14	12/26/02 08:55
6066149-003	605710219	142720DEC02	Water	12/20/02 14:27	12/26/02 08:55
6066149-004	605710227	141820DEC02	Water	12/20/02 14:18	12/26/02 08:55
6066149-005	605710235	140520DEC02	Water	12/20/02 14:05	12/26/02 08:55
6066149-006	605710243	143220DEC02	Water	12/20/02 14:32	12/26/02 08:55
6066149-007	605710250	143920DEC02	Water	12/20/02 14:39	12/26/02 08:55
6066149-008	605710268	142220DEC02	Water	12/20/02 14:22	12/26/02 08:55

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149
Client Project ID: SJB-GW/ICE

Lab Sample No: 605710193
Client Sample ID: 140920DEC02

Project Sample Number: 6066149-001
Matrix: Water

Date Collected: 12/20/02 14:09
Date Received: 12/26/02 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	12/31/02 17:27	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 17:27	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/31/02 17:27	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 17:27	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		1.0	12/31/02 17:27	JPR	98-08-8		

Date: 01/06/03

Page: 1 of 11

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149
Client Project ID: SJB-GW/ICE

Lab Sample No: 605710201
Client Sample ID: 141420DEC02

Project Sample Number: 6066149-002
Matrix: Water

Date Collected: 12/20/02 14:14
Date Received: 12/26/02 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	12/31/02 18:01 JPR	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 18:01 JPR	100-41-4			
Toluene	ND	ug/l	2.0	1.0	12/31/02 18:01 JPR	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 18:01 JPR	1330-20-7			
a,a,a-Trifluorotoluene (S)	96	%		1.0	12/31/02 18:01 JPR	98-08-8			

Date: 01/06/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149

Client Project ID: SJB-GW/ICE

Lab Sample No: 605710219
Client Sample ID: 142720DEC02

Project Sample Number: 6066149-003
Matrix: Water

Date Collected: 12/20/02 14:27
Date Received: 12/26/02 08:55

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	12/31/02 18:35	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 18:35	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/31/02 18:35	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 18:35	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	12/31/02 18:35	JPR	98-08-8		

Date: 01/06/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149

Client Project ID: SJB-GW/ICE

Lab Sample No: 605710227

Project Sample Number: 6066149-004

Date Collected: 12/20/02 14:18

Client Sample ID: 141820DEC02

Matrix: Water

Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	6.0	ug/l	2.0	1.0	12/31/02 19:08	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 19:08	JPR	100-41-4		
Toluene	4.9	ug/l	2.0	1.0	12/31/02 19:08	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 19:08	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		1.0	12/31/02 19:08	JPR	98-08-8		

Date: 01/06/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149
Client Project ID: SJB-GW/ICE

Lab Sample No: 605710235
Client Sample ID: 140520DEC02

Project Sample Number: 6066149-005
Matrix: Water

Date Collected: 12/20/02 14:05
Date Received: 12/26/02 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	12/31/02 20:50	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/31/02 20:50	JPR	100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/31/02 20:50	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/31/02 20:50	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	12/31/02 20:50	JPR	98-08-8		

Date: 01/06/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149

Client Project ID: SJB-GW/ICE

Lab Sample No: 605710243

Project Sample Number: 6066149-006

Date Collected: 12/20/02 14:32

Client Sample ID: 143220DEC02

Matrix: Water

Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	210	ug/l	2.0	1.0	12/31/02 21:24	JPR	71-43-2		
Ethylbenzene	43.	ug/l	2.0	1.0	12/31/02 21:24	JPR	100-41-4		
Toluene	16.	ug/l	2.0	1.0	12/31/02 21:24	JPR	108-88-3		
Xylene (Total)	300	ug/l	5.0	1.0	12/31/02 21:24	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		1.0	12/31/02 21:24	JPR	98-08-8		

Date: 01/06/03

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6066149

Client Project ID: SJB-GW/ICE

Lab Sample No: 605710250
Client Sample ID: 143920DEC02Project Sample Number: 6066149-007
Matrix: WaterDate Collected: 12/20/02 14:39
Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	89.	ug/l	2.0	1.0	12/31/02 21:57		71-43-2		
Ethylbenzene	110	ug/l	2.0	1.0	12/31/02 21:57		100-41-4		
Toluene	8.1	ug/l	2.0	1.0	12/31/02 21:57		108-88-3		
Xylene (Total)	1300	ug/l	12.	2.5	01/03/03 17:19		1330-20-7		
a,a,a-Trifluorotoluene (S)	140	%		1.0	12/31/02 21:57		98-08-8	1	

Date: 01/06/03

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REPORT OF LABORATORY ANALYSISThis report shall not be reproduced, except in full,
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Lab Project Number: 6066149

Client Project ID: SJB-GW/ICE

Lab Sample No: 605710268

Client Sample ID: 142220DEC02

Project Sample Number: 6066149-008

Matrix: Water

Date Collected: 12/20/02 14:22

Date Received: 12/26/02 08:55

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics		Method: EPA 8021							
Benzene	16.	ug/l	2.0		1.0 12/31/02 22:31	JPR	71-43-2		
Ethylbenzene	2.3	ug/l	2.0		1.0 12/31/02 22:31	JPR	100-41-4		
Toluene	18.	ug/l	2.0		1.0 12/31/02 22:31	JPR	108-88-3		
Xylene (Total)	28.	ug/l	5.0		1.0 12/31/02 22:31	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%			1.0 12/31/02 22:31	JPR	98-08-8		

Date: 01/06/03

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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] Surrogate recovery outside of acceptance window confirmed as a matrix effect by the analysis of a duplicate or MS/MSD on this sample.

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: 6066149
Client Project ID: SJB-GW/ICE

QC Batch: 136603
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605710193 605710201 605710219 605710227 605710235
605710243 605710250 605710268

METHOD BLANK: 605717461

Associated Lab Samples: 605710193 605710201 605710219 605710227 605710235 605710243 605710250
605710268

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)	%	95		

LABORATORY CONTROL SAMPLE: 605717479

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.58	103	84-122	
Ethylbenzene	ug/l	20.00	20.49	102	85-117	
Toluene	ug/l	20.00	20.49	102	87-117	
Xylene (Total)	ug/l	60.00	62.19	104	85-119	
a,a,a-Trifluorotoluene (S)				93	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605718600 605718618

Parameter	Units	605710342 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0.6713	20.00	21.91	23.05	106	112	82-123	5	10	
Ethylbenzene	ug/l	0	20.00	20.10	20.35	100	102	84-118	1	10	
Toluene	ug/l	0.3722	20.00	21.38	21.06	105	103	82-117	2	10	
Xylene (Total)	ug/l	0.9013	60.00	58.14	59.48	95	98	84-121	2	13	
a,a,a-Trifluorotoluene (S)						97	100	83-115			

Date: 01/06/03

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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

October 18, 2002

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

RE: Lab Project Number: 6063375
Client Project ID: ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on October 2, 2002. 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: 6063375

Client Project ID: ICE

<u>Project</u>	<u>Sample</u>				
<u>Sample Number</u>	<u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6063375-001	605485689	131526SEP02	Water	09/26/02 13:15	10/02/02 10:15
6063375-002	605485697	132626SEP02	Water	09/26/02 13:26	10/02/02 10:15
6063375-003	605485705	133326SEP02	Water	09/26/02 13:33	10/02/02 10:15
6063375-004	605485713	135426SEP02	Water	09/26/02 13:54	10/02/02 10:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063375
Client Project ID: ICE

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6063375-001	605485689	131526SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063375-002	605485697	132626SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063375-003	605485705	133326SEP02	8020	WPAC	Aromatic Volatile Organics	5
6063375-004	605485713	135426SEP02	8020	WPAC	Aromatic Volatile Organics	5

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063375
Client Project ID: ICE

Lab Sample No: 605485689
Client Sample ID: 131526SEP02

Project Sample Number: 6063375-001
Matrix: Water

Date Collected: 09/26/02 13:15
Date Received: 10/02/02 10:15

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 10/08/02 01:08		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 10/08/02 01:08		100-41-4		
Toluene	ND	ug/l	2.0		1.0 10/08/02 01:08		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 10/08/02 01:08		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%			1.0 10/08/02 01:08		98-08-8		

Date: 10/18/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063375
Client Project ID: ICE

Lab Sample No: 605485697
Client Sample ID: 132626SEP02

Project Sample Number: 6063375-002
Matrix: Water

Date Collected: 09/26/02 13:26
Date Received: 10/02/02 10:15

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	10/08/02 01:36		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/08/02 01:36		100-41-4		
Toluene	3.6	ug/l	2.0	1.0	10/08/02 01:36		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/08/02 01:36		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	10/08/02 01:36		98-08-8		

Date: 10/18/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063375
Client Project ID: ICE

Lab Sample No: 605485705
Client Sample ID: 133326SEP02

Project Sample Number: 6063375-003
Matrix: Water

Date Collected: 09/26/02 13:33
Date Received: 10/02/02 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	29.	ug/l	2.0	1.0	10/08/02 02:04		71-43-2		
Ethylbenzene	2.5	ug/l	2.0	1.0	10/08/02 02:04		100-41-4		
Toluene	20.	ug/l	2.0	1.0	10/08/02 02:04		108-88-3		
Xylene (Total)	28.	ug/l	5.0	1.0	10/08/02 02:04		1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		1.0	10/08/02 02:04		98-08-8		

Date: 10/18/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063375
Client Project ID: ICE

Lab Sample No: 605485713
Client Sample ID: 135426SEP02

Project Sample Number: 6063375-004
Matrix: Water

Date Collected: 09/26/02 13:54
Date Received: 10/02/02 10:15

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	320	ug/l	10.	5.0	10/08/02		71-43-2		
Ethylbenzene	49.	ug/l	2.0	1.0	10/08/02 02:32		100-41-4		
Toluene	4.6	ug/l	2.0	1.0	10/08/02 02:32		108-88-3		
Xylene (Total)	210	ug/l	5.0	1.0	10/08/02 02:32		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		1.0	10/08/02 02:32		98-08-8		

Date: 10/18/02

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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

Date: 10/18/02

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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: 6063375
Client Project ID: ICE

QC Batch: 131179 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605485689 605485697 605485705 605485713

METHOD BLANK: 605496066
Associated Lab Samples: 605485689 605485697 605485705 605485713

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: 605496074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	22.39	112	84-122	
Ethylbenzene	ug/l	20.00	19.77	99	85-117	
Toluene	ug/l	20.00	20.16	101	87-117	
Xylene (Total)	ug/l	60.00	61.69	103	85-119	
a,a,a-Trifluorotoluene (S)				103	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605499128 605499136

Parameter	Units	605485689 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	20.58	22.34	103	112	82-123	8	10	
Ethylbenzene	ug/l	0	20.00	19.12	19.23	96	96	84-118	1	10	
Toluene	ug/l	0	20.00	19.50	20.08	98	100	82-117	3	10	
Xylene (Total)	ug/l	0	60.00	58.88	55.99	98	93	84-121	5	13	
a,a,a-Trifluorotoluene (S)						102	100	83-115			

Date: 10/18/02

Page: 6 of 7

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 25, 2002

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

RE: Lab Project Number: 6059941
Client Project ID: ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 2002. 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

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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: 6059941

Client Project ID: ICE

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>
6059941-001	605212034	121417JUN02	Water	06/17/02 12:14	06/20/02 09:00
6059941-002	605212042	131017JUN02	Water	06/17/02 13:10	06/20/02 09:00
6059941-003	605212059	125417JUN02	Water	06/17/02 12:54	06/20/02 09:00
6059941-004	605212067	125917JUN02	Water	06/17/02 12:59	06/20/02 09:00
6059941-005	605212075	130417JUN02	Water	06/17/02 13:04	06/20/02 09:00
6059941-006	605212083	124217JUN02	Water	06/17/02 12:42	06/20/02 09:00
6059941-007	605212091	124817JUN02	Water	06/17/02 12:48	06/20/02 09:00
6059941-008	605212109	123417JUN02	Water	06/17/02 12:34	06/20/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212034
Client Sample ID: 121417JUN02

Project Sample Number: 6059941-001
Matrix: Water

Date Collected: 06/17/02 12:14
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/25/02 03:00 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 03:00 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 03:00 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/25/02 03:00 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		06/25/02 03:00 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212042
Client Sample ID: 131017JUN02

Project Sample Number: 6059941-002
Matrix: Water

Date Collected: 06/17/02 13:10
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	320	ug/l	5.0	06/25/02 03:29 SHF		71-43-2	1	
Ethylbenzene	65.	ug/l	2.0	06/25/02 03:29 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 03:29 SHF		108-88-3		
Xylene (Total)	150	ug/l	5.0	06/25/02 03:29 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	88	%		06/25/02 03:29 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212059

Project Sample Number: 6059941-003

Date Collected: 06/17/02 12:54

Client Sample ID: 125417JUN02

Matrix: Water

Date Received: 06/20/02 09:00

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

GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	06/25/02 03:58 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 03:58 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 03:58 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/25/02 03:58 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	97	%		06/25/02 03:58 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212067
Client Sample ID: 125917JUN02

Project Sample Number: 6059941-004
Matrix: Water

Date Collected: 06/17/02 12:59
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/25/02 05:55 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 05:55 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 05:55 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/25/02 05:55 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		06/25/02 05:55 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212075

Client Sample ID: 130417JUN02

Project Sample Number: 6059941-005

Matrix: Water

Date Collected: 06/17/02 13:04

Date Received: 06/20/02 09:00

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

GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	06/25/02 06:24 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 06:24 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 06:24 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/25/02 06:24 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		06/25/02 06:24 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212083

Client Sample ID: 124217JUN02

Project Sample Number: 6059941-006

Matrix: Water

Date Collected: 06/17/02 12:42

Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	ReqLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	220	ug/l	5.0	06/25/02 06:53 SHF		71-43-2	1	
Ethylbenzene	140	ug/l	2.0	06/25/02 06:53 SHF		100-41-4		
Toluene	2.1	ug/l	2.0	06/25/02 06:53 SHF		108-88-3		
Xylene (Total)	670	ug/l	12.	06/25/02 06:53 SHF		1330-20-7	1	
a,a,a-Trifluorotoluene (S)	94	%		06/25/02 06:53 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212091

Project Sample Number: 6059941-007

Date Collected: 06/17/02 12:48

Client Sample ID: 124817JUN02

Matrix: Water

Date Received: 06/20/02 09:00

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

GC Volatiles

Aromatic Volatile Organics

Method: EPA 8021

Benzene	ND	ug/l	2.0	06/25/02 07:22 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 07:22 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 07:22 SHF		108-88-3		
Xylene (Total)	11.	ug/l	5.0	06/25/02 07:22 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		06/25/02 07:22 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059941

Client Project ID: ICE

Lab Sample No: 605212109

Project Sample Number: 6059941-008

Date Collected: 06/17/02 12:34

Client Sample ID: 123417JUN02

Matrix: Water

Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/25/02 07:52 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/25/02 07:52 SHF		100-41-4		
Toluene	ND	ug/l	2.0	06/25/02 07:52 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/25/02 07:52 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		06/25/02 07:52 SHF		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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PARAMETER FOOTNOTES

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] Result from a 1:2.5 dilution on 6-25-02.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6059941
Client Project ID: ICE

QC Batch: 124870
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605212034 605212042 605212059 605212067 605212075
605212083 605212091 605212109

METHOD BLANK: 605219237
Associated Lab Samples: 605212034 605212042 605212059 605212067 605212075 605212083 605212091
605212109

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: 605219245

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	20.29	101	84-122	
Ethylbenzene	ug/l	20.00	19.37	97	85-117	
Toluene	ug/l	20.00	19.32	97	87-117	
Xylene (Total)	ug/l	60.00	56.87	95	85-119	
a,a,a-Trifluorotoluene (S)				98	83-115	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] The Matrix Spike and Matrix Spike Duplicate (MS/MSD) compound recovery information is not available, due to interference from the sample matrix. Acceptable recovery of the LCS indicates the analytical system is in control.

REPORT OF LABORATORY ANALYSIS

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April 09, 2002

Mr. Jim Struhs
MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

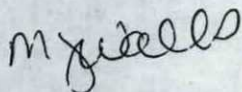
RE: Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 27, 2002. 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

Lab Project Number: 6057444

Client Project ID: SJB-GW ICE

Project Sample Number	Sample Number	Client Sample ID	Matrix	Date Collected	Date Received
6057444-016	605003557	130325MAR02	Water	03/25/02 13:03	03/27/02 09:40
6057444-017	605003581	132025MAR02	Water	03/25/02 13:20	03/27/02 09:40
6057444-018	605003599	131625MAR02	Water	03/25/02 13:16	03/27/02 09:40
6057444-019	605003615	130825MAR02	Water	03/25/02 13:08	03/27/02 09:40
6057444-020	605003623	125725MAR02	Water	03/25/02 12:57	03/27/02 09:40
6057444-021	605003649	125325MAR02	Water	03/25/02 12:53	03/27/02 09:40
6057444-022	605003664	124225MAR02	Water	03/25/02 12:42	03/27/02 09:40
6057444-023	605003680	124725MAR02	Water	03/25/02 12:47	03/27/02 09:40

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Lab Project Number: 6057444

Client Project ID: SJB-GW ICE

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6057444-016	605003557	130325MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-017	605003581	132025MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-018	605003599	131625MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-019	605003615	130825MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-020	605003623	125725MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-021	605003649	125325MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-022	605003664	124225MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057444-023	605003680	124725MAR02	8020	WPAC	Aromatic Volatile Organics	5

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MILE HIGH ENVIRONMENTAL
187 C.R. 4980
Bloomfield, NM 87413

Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Attn: Mr. Jim Struhs
Phone: (505)632-4457

Lab Sample No: 605003557
Client Sample ID: 130325MAR02

Project Sample Number: 6057444-016
Matrix: Water

Date Collected: 03/25/02 13:03
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	5.1	ug/l	2.0	03/30/02 05:30	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/30/02 05:30	JPR	100-41-4		
Toluene	2.0	ug/l	2.0	03/30/02 05:30	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/30/02 05:30	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		03/30/02 05:30	JPR	2164-17-2		

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Lab Project Number: 6057444

Client Project ID: SJB-GW ICE

Lab Sample No: 605003581
Client Sample ID: 132025MAR02

Project Sample Number: 6057444-017
Matrix: Water

Date Collected: 03/25/02 13:20
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	370	ug/l	10.	03/30/02 05:59	JPR	71-43-2		
Ethylbenzene	70.	ug/l	10.	03/30/02 05:59	JPR	100-41-4		
Toluene	16.	ug/l	10.	03/30/02 05:59	JPR	108-88-3		
Xylene (Total)	330	ug/l	25.	03/30/02 05:59	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		03/30/02 05:59	JPR	2164-17-2	1	

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Lab Sample No: 605003599
Client Sample ID: 131625MAR02

Project Sample Number: 6057444-018
Matrix: Water

Date Collected: 03/25/02 13:16
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics		Prep/Method: EPA 8021 / EPA 8021						
Benzene	ND	ug/l	2.0	03/30/02 06:28	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/30/02 06:28	JPR	100-41-4		
Toluene	ND	ug/l	2.0	03/30/02 06:28	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/30/02 06:28	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		03/30/02 06:28	JPR	2164-17-2		

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Lab Sample No: 605003615
Client Sample ID: 130825MAR02

Project Sample Number: 6057444-019
Matrix: Water

Date Collected: 03/25/02 13:08
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Req Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/30/02 06:57	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/30/02 06:57	JPR	100-41-4		
Toluene	ND	ug/l	2.0	03/30/02 06:57	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/30/02 06:57	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	90	%		03/30/02 06:57	JPR	2164-17-2		

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Lab Sample No: 605003623
Client Sample ID: 125725MAR02

Project Sample Number: 6057444-020
Matrix: Water

Date Collected: 03/25/02 12:57
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Req Limit
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GC Volatiles

Aromatic Volatile Organics

Prep/Method: EPA 8021 / EPA 8021

Benzene	2.0	ug/l	2.0	03/30/02 07:26	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/30/02 07:26	JPR	100-41-4		
Toluene	ND	ug/l	2.0	03/30/02 07:26	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/30/02 07:26	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		03/30/02 07:26	JPR	2164-17-2		

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Lab Sample No: 605003649
Client Sample ID: 125325MAR02

Project Sample Number: 6057444-021
Matrix: Water

Date Collected: 03/25/02 12:53
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Req Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	04/02/02 09:22	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/02/02 09:22	JPR	100-41-4		
Toluene	ND	ug/l	2.0	04/02/02 09:22	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/02/02 09:22	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%		04/02/02 09:22	JPR	2164-17-2		

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

Lab Sample No: 605003664
Client Sample ID: 124225MAR02

Project Sample Number: 6057444-022
Matrix: Water

Date Collected: 03/25/02 12:42
Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	04/01/02 16:12	JPR	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/01/02 16:12	JPR	100-41-4		
Toluene	ND	ug/l	2.0	04/01/02 16:12	JPR	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/01/02 16:12	JPR	1330-20-7		
a,a,a-Trifluorotoluene (S)	89	%		04/01/02 16:12	JPR	2164-17-2		

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Lab Project Number: 6057444

Client Project ID: SJB-GW ICE

Lab Sample No: 605003680

Client Sample ID: 124725MAR02

Project Sample Number: 6057444-023

Matrix: Water

Date Collected: 03/25/02 12:47

Date Received: 03/27/02 09:40

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
GC Volatiles								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	280	ug/l	4.0	04/01/02 16:41	JPR	71-43-2		
Ethylbenzene	170	ug/l	4.0	04/01/02 16:41	JPR	100-41-4		
Toluene	7.3	ug/l	4.0	04/01/02 16:41	JPR	108-88-3		
Xylene (Total)	1700	ug/l	25.	04/01/02 16:41	JPR	1330-20-7	2	
a,a,a-Trifluorotoluene (S)	108	%		04/01/02 16:41	JPR	2164-17-2	1	

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

PARAMETER FOOTNOTES

- 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
(S) Surrogate
[1] Elevated quantitation limits resulting from a dilution.
[2] Result from a 1:5 dilution run on 4-2-02, file #2.

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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: 6057444
Client Project ID: SJB-GW ICE

QC Batch: 120003
QC Batch Method: EPA 8021
Associated Lab Samples: 605003557 605003581 605003599 605003615 605003623
605003649 605003664 605003680

METHOD BLANK: 605008705
Associated Lab Samples: 605003557 605003581 605003599 605003615 605003623 605003649 605003664
605003680

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)	%	94		

LABORATORY CONTROL SAMPLE: 605008713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20	20.00	100	84-122	
Ethylbenzene	ug/l	20	19.52	98	85-117	
Toluene	ug/l	20	20.49	102	87-117	
Xylene (Total)	ug/l	60	61.51	103	85-119	
a,a,a-Trifluorotoluene (S)				96	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605014117 605014125

Parameter	Units	605003649 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Footnotes
Benzene	ug/l	0.1012	20.00	18.92	18.98	94	94	82-123	0	10	
Ethylbenzene	ug/l	0	20.00	20.17	19.31	101	97	84-118	4	10	
Toluene	ug/l	0.1551	20.00	18.70	18.54	93	92	82-117	1	10	
Xylene (Total)	ug/l	1.572	60.00	68.04	59.42	111	96	84-121	14	13	1
a,a,a-Trifluorotoluene (S)						92	93	83-115			

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Lab Project Number: 6057444
Client Project ID: SJB-GW ICE

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

RPD Relative Percent Difference

(S) Surrogate

[1] The calculated RPD was outside QC acceptance limits. Acceptable recovery of the LCS indicates the analytical system is in control.

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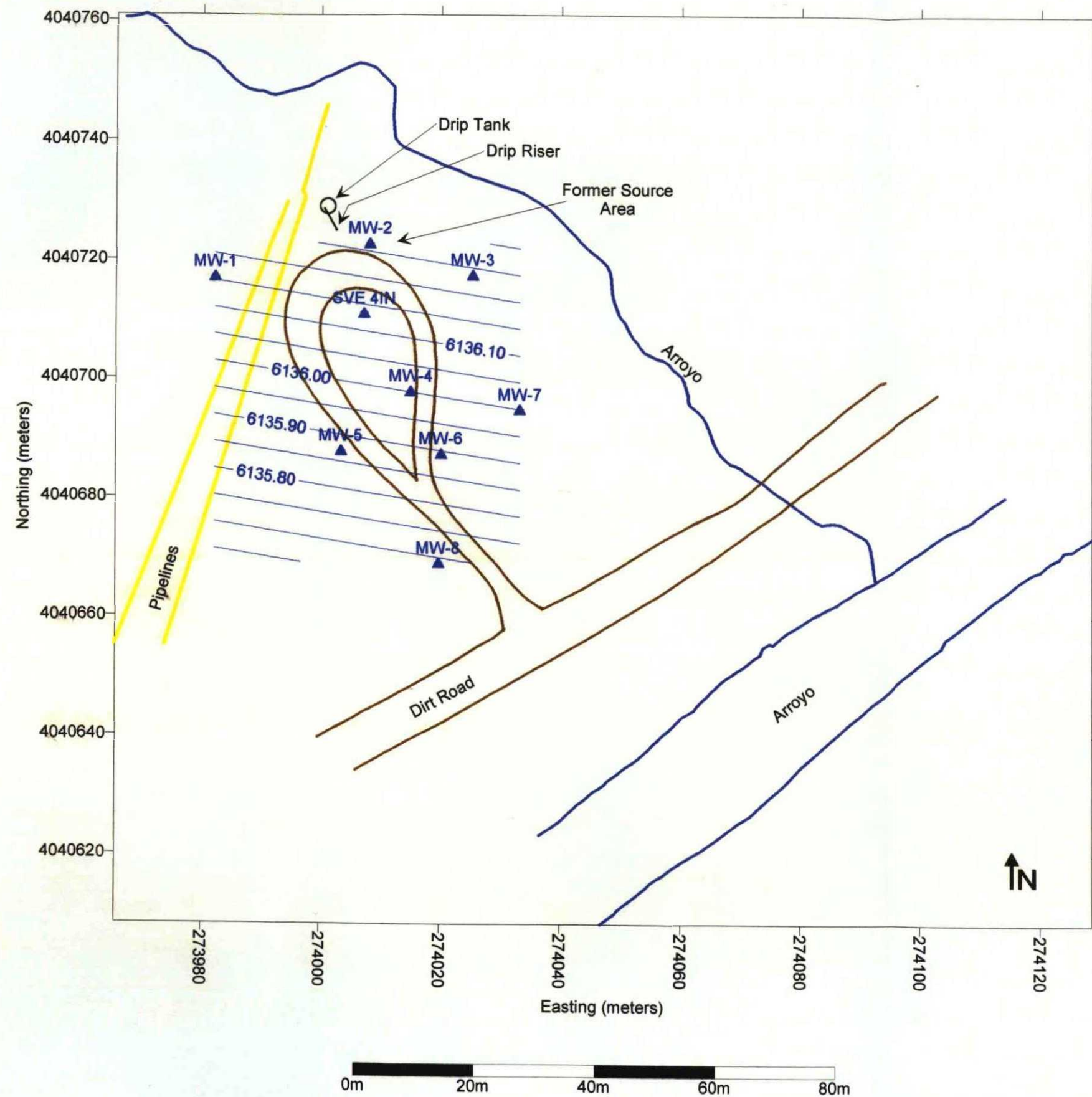


Figure 2
Potentiometric
Surface Map
Ice Canyon Line Drip
(March 25, 2002)

LEGEND

MW-2



Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)

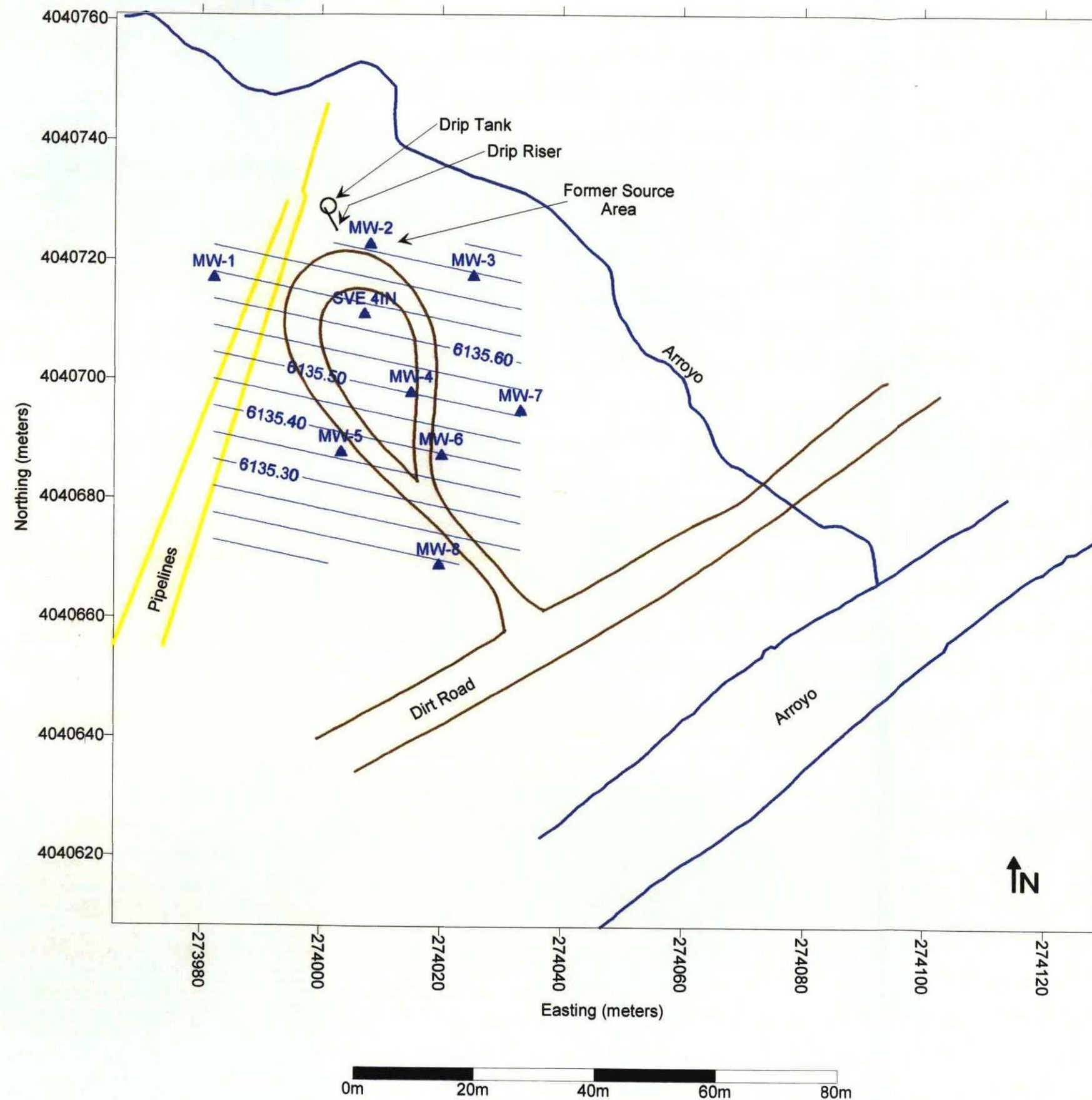


Figure 2
Potentiometric
Surface Map
Ice Canyon Line Drip
(June 17, 2002)

LEGEND

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

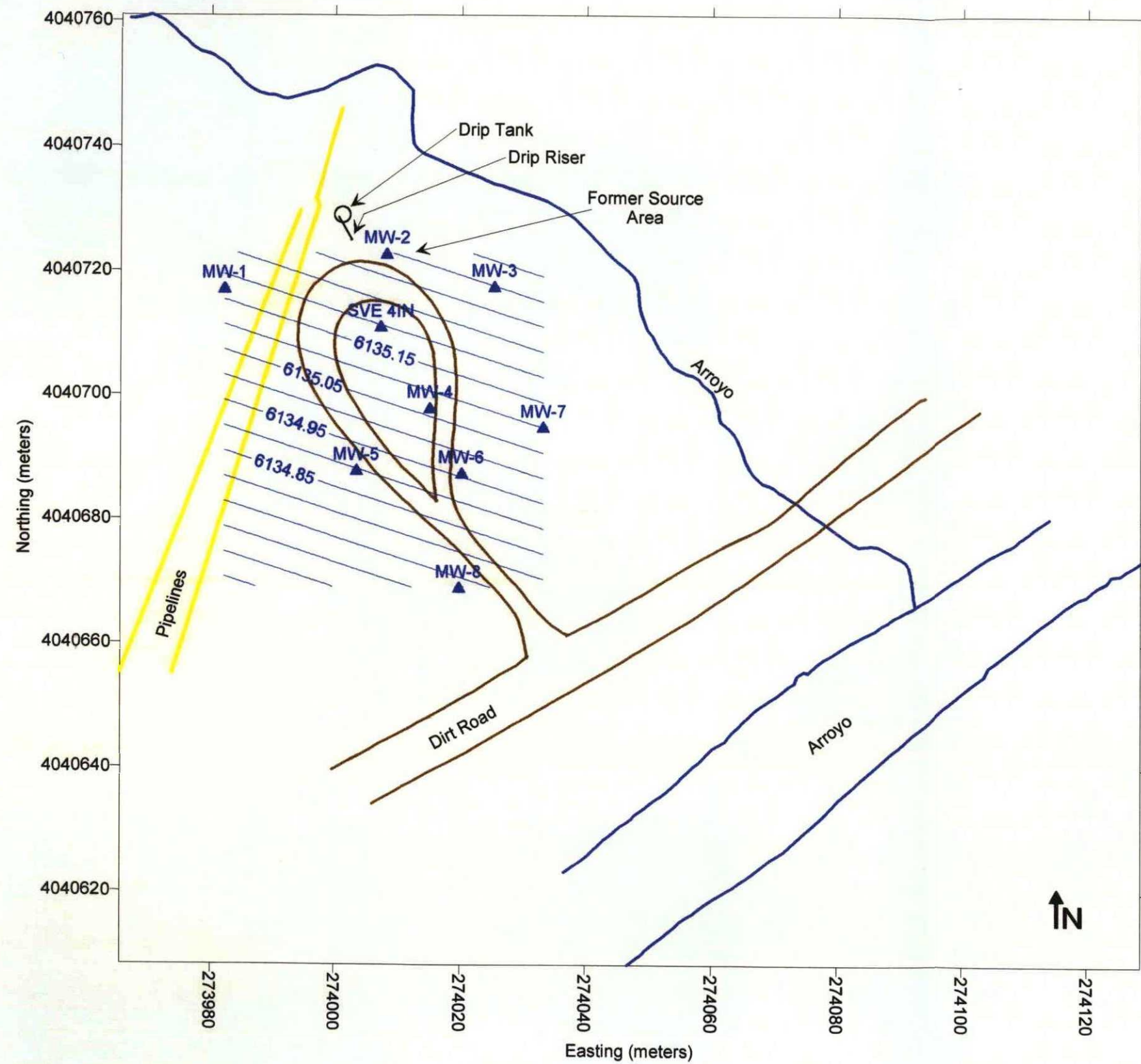


Figure 2
Potentiometric
Surface Map
Ice Canyon Line Drip
(September 26, 2002)

LEGEND

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

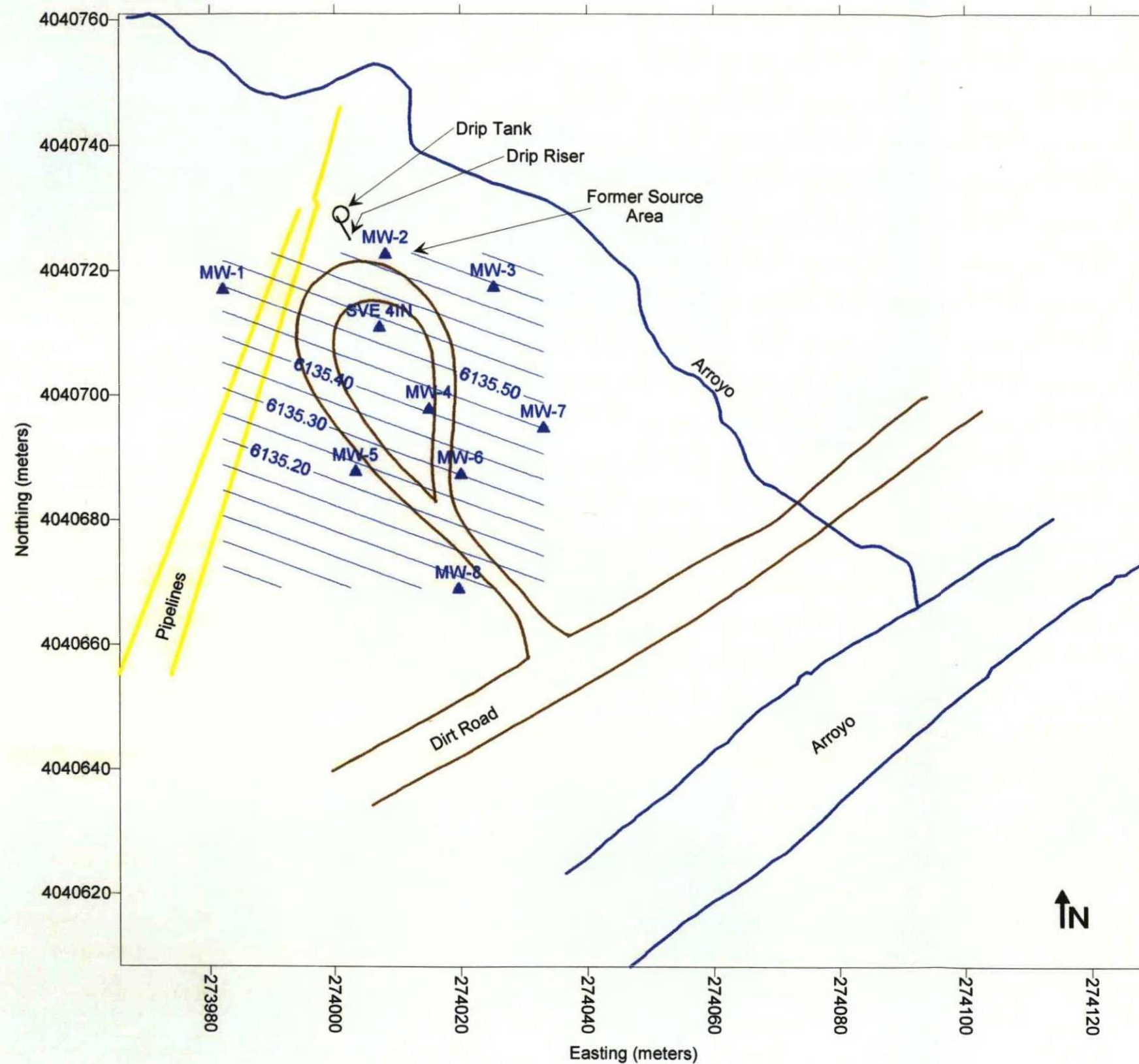


Figure 2
Potentiometric
Surface Map
Ice Canyon Line Drip
(December 20, 2002)

LEGEND

MW-2



Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)