

3RP-321

Reports

Date: 2002

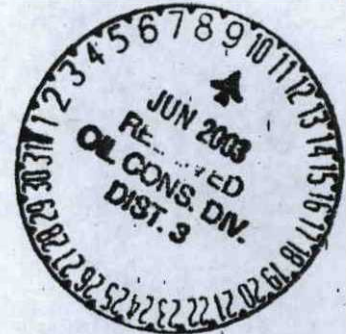


Environmental Services
188 County Road 4900
Bloomfield, New Mexico 87413
(505) 634-4956 (office)
(505) 632-4781 (fax)

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: Honolulu Line Drip

Reporting Period: 2002

Location: Unit B, Sec 15, Twn 26N, Rng 4W
Canyon: Tapicito
Operator: Williams

Vulnerable Class: sensitive
OCD Ranking: 40
Lead Agency: NMOCD / JAEPO

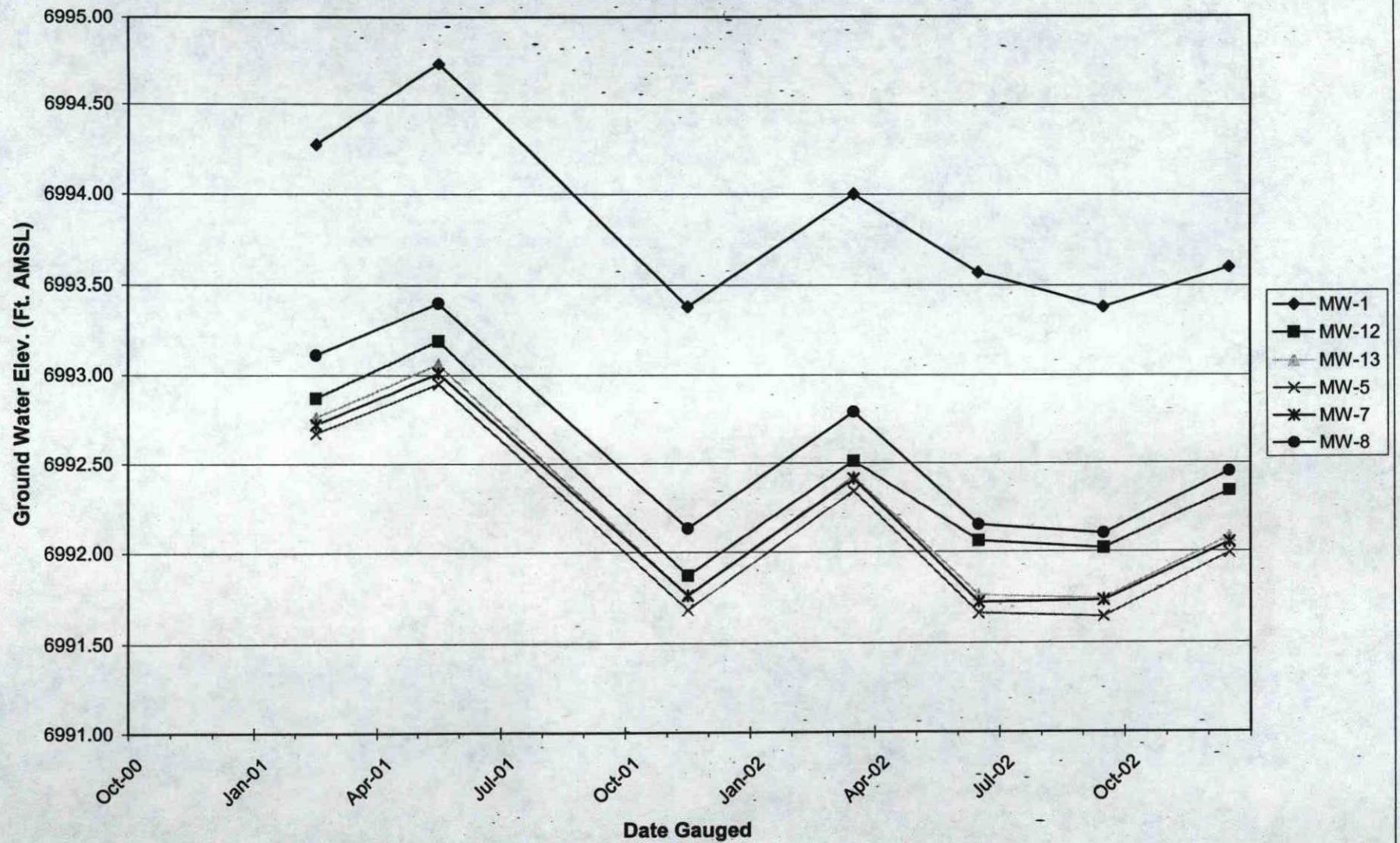
Status Narrative

Twenty-three quarters of water quality data have been collected at this site. Six monitoring wells are installed, of which five have been sampled. The sixth well, MW-8, which is located cross-gradient to the former source area, has not been sampled in recent years due to an obstruction in the well. Still, samples collected from MW-8 in late 1997 and early 1998 demonstrated four quarters of BTEX concentrations below WQCC and Federal cleanup standards. Currently, only well MW-12, located immediately downgradient of the former source area, has failed to demonstrate four consecutive quarters of water quality data below the cleanup standards. In the first and fourth quarters of the period, benzene concentrations were less than 5 ppb. However, in the second and third quarters benzene levels were 92 and 100 ppb, respectively.

Potentiometric surface maps (Figure 2) depict a west by north ground water flow direction at an average hydraulic gradient of 0.01. No significant seasonal variations in flow direction or gradient are evident. The enclosed hydrograph illustrates seasonal fluctuations in water-table elevations.



Honolulu Drip Hydrograph



Analytical Data Summary

Site Name:

Honolulu 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						
	3/29/02	112629MAR02	ND	ND	ND	ND
	6/18/02	072718JUN02	ND	ND	ND	ND
	9/27/02	094327SEP02	ND	ND	ND	ND
	12/12/02	143612DEC02	ND	ND	ND	ND
MW-12						
	3/29/02	113229MAR02	ND	ND	ND	ND
	6/18/02	082418JUN02	92.	ND	3.3	20.
	9/27/02	105927SEP02	100	ND	3.8	20.
	12/12/02	145712DEC02	4.1	ND	ND	ND
MW-13						
	3/29/02	113429MAR02	ND	ND	ND	ND
	6/18/02	081618JUN02	ND	ND	ND	ND
	9/27/02	104927SEP02	ND	ND	ND	ND
	12/12/02	145012DEC02	ND	ND	ND	ND
MW-5						
	3/29/02	113729MAR02	ND	ND	ND	ND
	6/18/02	080718JUN02	ND	ND	ND	ND
	9/27/02	103727SEP02	ND	ND	ND	ND
	12/12/02	144512DEC02	ND	ND	ND	ND
MW-7						
	3/29/02	114129MAR02	ND	ND	ND	ND
	6/18/02	074018JUN02	ND	ND	ND	ND
	9/27/02	102627SEP02	ND	ND	ND	ND
	12/12/02	143912DEC02	ND	ND	ND	ND

December 23, 2002

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

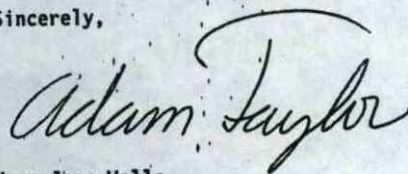
RE: Lab Project Number: 6065818
Client Project ID: SJB-GW HON

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on December 17, 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,



For: Mary Jane Wallis
mjwallis@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: 6065818
Client Project ID: SJB-GW HON

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>
6065818-001	605680552	145012DEC02	Water	12/12/02 14:50	12/17/02 08:00
6065818-002	605680560	143912DEC02	Water	12/12/02 14:39	12/17/02 08:00
6065818-003	605680578	143612DEC02	Water	12/12/02 14:36	12/17/02 08:00
6065818-004	605680586	144512DEC02	Water	12/12/02 14:45	12/17/02 08:00
6065818-005	605680594	145712DEC02	Water	12/12/02 14:57	12/17/02 08:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065818

Client Project ID: SJB-GW HON

Lab Sample No: 605680552

Client Sample ID: 145012DEC02

Project Sample Number: 6065818-001

Matrix: Water

Date Collected: 12/12/02 14:50

Date Received: 12/17/02 08:00

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	12/20/02 00:07 SHF	71-43-2			
Ethylbenzene	ND	ug/l	2.0	1.0	12/20/02 00:07 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	12/20/02 00:07 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	12/20/02 00:07 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	97	%		1.0	12/20/02 00:07 SHF	98-08-8			

Date: 12/23/02

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REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605680560
Client Sample ID: 143912DEC02

Project Sample Number: 6065818-002
Matrix: Water

Date Collected: 12/12/02 14:39
Date Received: 12/17/02 08:00

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	12/20/02 00:36 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/20/02 00:36 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/20/02 00:36 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/20/02 00:36 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		1.0	12/20/02 00:36 SHF		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065818

Client Project ID: SJB-GW HON

Lab Sample No: 605680578
Client Sample ID: 143612DEC02Project Sample Number: 6065818-003
Matrix: WaterDate Collected: 12/12/02 14:36
Date Received: 12/17/02 08:00

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 12/20/02 01:04 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/20/02 01:04 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/20/02 01:04 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/20/02 01:04 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%			1.0 12/20/02 01:04 SHF		98-08-8		

Date: 12/23/02

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Lab Project Number: 6065818

Client Project ID: SJB-GW HON

Lab Sample No: 605680586
Client Sample ID: 144512DEC02

Project Sample Number: 6065818-004

Matrix: Water

Date Collected: 12/12/02 14:45

Date Received: 12/17/02 08:00

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 12/20/02 01:33 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/20/02 01:33 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/20/02 01:33 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/20/02 01:33 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 12/20/02 01:33 SHF		98-08-8		

Date: 12/23/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065818
Client Project ID: SJB-GW HON

Lab Sample No: 605680594
Client Sample ID: 145712DEC02

Project Sample Number: 6065818-005
Matrix: Water

Date Collected: 12/12/02 14:57
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
GC Volatiles									
Aromatic Volatile Organics		Method: EPA 8021							
Benzene	4.1	ug/l	2.0	1.0	12/20/02 12:29 SHF	71-43-2	1		
Ethylbenzene	ND	ug/l	2.0	1.0	12/20/02 02:01 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	12/20/02 02:01 SHF	108-88-3			
Xylene (Total)	ND	ug/l	5.0	1.0	12/20/02 02:01 SHF	1330-20-7			
a,a,a-Trifluorotoluene (S)	96	%		1.0	12/20/02 02:01 SHF	98-08-8			

Date: 12/23/02

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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
[1]	Confirmed by second analysis.

Date: 12/23/02

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6065818
Client Project ID: SJB-GW HON

QC Batch: 135909
QC Batch Method: EPA 8021
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605680552 605680560 605680578 605680586 605680594

METHOD BLANK: 605687649
Associated Lab Samples: 605680552 605680560 605680578 605680586 605680594

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)	%	96		

LABORATORY CONTROL SAMPLE: 605687656

Parameter	Units	Spike	LCS	LCS	% Rec	Footnotes
		Conc.	Result	% Rec	Limits	
Benzene	ug/l	20.00	19.84	99	84-122	
Ethylbenzene	ug/l	20.00	20.44	102	85-117	
Toluene	ug/l	20.00	23.03	115	87-117	
Xylene (Total)	ug/l	60.00	65.34	109	85-119	
a,a,a-Trifluorotoluene (S)				94	83-115	

Date: 12/23/02

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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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October 10, 2002

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

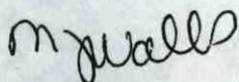
RE: Lab Project Number: 6063380
Client Project ID: HON

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: 6063380
Client Project ID: HON

<u>Project</u> <u>Sample Number</u>	<u>Sample</u> <u>Number</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Collected</u>	<u>Date Received</u>
6063380-001	605486018	094327SEP02	Water	09/27/02 09:43	10/02/02 10:15
6063380-002	605486026	102627SEP02	Water	09/27/02 10:26	10/02/02 10:15
6063380-003	605486034	103727SEP02	Water	09/27/02 10:37	10/02/02 10:15
6063380-004	605486042	104927SEP02	Water	09/27/02 10:49	10/02/02 10:15
6063380-005	605486059	105927SEP02	Water	09/27/02 10:59	10/02/02 10:15

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063380
Client Project ID: HON

Lab Sample No: 605486018
Client Sample ID: 094327SEP02

Project Sample Number: 6063380-001
Matrix: Water

Date Collected: 09/27/02 09:43
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	ND	ug/l	2.0	1.0	10/08/02 13:25		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/08/02 13:25		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/08/02 13:25		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/08/02 13:25		1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		1.0	10/08/02 13:25		98-08-8		

Date: 10/10/02

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REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605486026

Project Sample Number: 6063380-002

Date Collected: 09/27/02 10:26

Client Sample ID: 102627SEP02

Matrix: Water

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	ND	ug/l	2.0	1.0	10/08/02 13:55		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/08/02 13:55		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/08/02 13:55		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/08/02 13:55		1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		1.0	10/08/02 13:55		98-08-8		

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063380

Client Project ID: H0N

Lab Sample No: 605486034

Project Sample Number: 6063380-003

Date Collected: 09/27/02 10:37

Client Sample ID: 103727SEP02

Matrix: Water

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	ND	ug/l	2.0	1.0	10/09/02 14:03 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/09/02 14:03 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/09/02 14:03 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/09/02 14:03 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	10/09/02 14:03 SHF		98-08-8		

Date: 10/10/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063380
Client Project ID: HON

Lab Sample No: 605486042
Client Sample ID: 104927SEP02

Project Sample Number: 6063380-004
Matrix: Water

Date Collected: 09/27/02 10:49
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	10/09/02 14:32 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	10/09/02 14:32 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	10/09/02 14:32 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	10/09/02 14:32 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		1.0	10/09/02 14:32 SHF		98-08-8		

Date: 10/10/02

Page: 4 of 9

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6063380

Client Project ID: HON

Lab Sample No: 605486059

Client Sample ID: 105927SEP02

Project Sample Number: 6063380-005

Matrix: Water

Date Collected: 09/27/02 10:59

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	100	ug/l	2.0	1.0	10/09/02 15:01 SHF	71-43-2			
Ethylbenzene	3.8	ug/l	2.0	1.0	10/09/02 15:01 SHF	100-41-4			
Toluene	ND	ug/l	2.0	1.0	10/09/02 15:01 SHF	108-88-3			
Xylene (Total)	20.	ug/l	5.0	1.0	10/09/02 15:01 SHF	1330-20-7			
a,a,a-Trifluorotoluene, (S)	103	%		1.0	10/09/02 15:01 SHF	98-08-8			

Date: 10/10/02

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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

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: 6063380

Client Project ID: HON

QC Batch: 131179
QC Batch Method: EPA 8021
Associated Lab Samples:

Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics
605486018 605486026

METHOD BLANK: 605496066

Associated Lab Samples: 605486018 605486026

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	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: 10/10/02

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Lab Project Number: 6063380

Client Project ID: HON

QC Batch: 131381
QC Batch Method: EPA 8021
Associated Lab Samples: 605486034 605486042 605486059
Analysis Method: EPA 8021
Analysis Description: Aromatic Volatile Organics

METHOD BLANK: 605503531
Associated Lab Samples: 605486034 605486042 605486059

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: 605503549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.31	107	84-122	
Ethylbenzene	ug/l	20.00	20.93	105	85-117	
Toluene	ug/l	20.00	20.98	105	87-117	
Xylene (Total)	ug/l	60.00	64.43	107	85-119	
a,a,a-Trifluorotoluene (S)				102	83-115	

Date: 10/10/02

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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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June 25, 2002

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

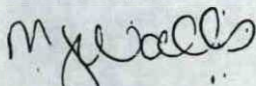
RE: Lab Project Number: 6059952
Client Project ID: HON

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

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: 6059952
Client Project ID: HON

<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>
6059952-001	605212802	072718JUN02	Water	06/18/02 07:27	06/20/02 09:00
6059952-002	605212836	081618JUN02	Water	06/18/02 08:16	06/20/02 09:00
6059952-003	605212844	080718JUN02	Water	06/18/02 08:07	06/20/02 09:00
6059952-004	605212851	074018JUN02	Water	06/18/02 07:40	06/20/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059952
Client Project ID: HON

Lab Sample No: 605212802
Client Sample ID: 072718JUN02

Project Sample Number: 6059952-001
Matrix: Water

Date Collected: 06/18/02 07:27
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	06/24/02 19:55		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/24/02 19:55		100-41-4		
Toluene	ND	ug/l	2.0	06/24/02 19:55		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/24/02 19:55		1330-20-7		
a,a,a-Trifluorotoluene (S)	108	%		06/24/02 19:55		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059952
Client Project ID: HON

Lab Sample No: 605212836
Client Sample ID: 081618JUN02

Project Sample Number: 6059952-002
Matrix: Water

Date Collected: 06/18/02 08:16
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	06/24/02 20:23		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/24/02 20:23		100-41-4		
Toluene	ND	ug/l	2.0	06/24/02 20:23		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/24/02 20:23		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		06/24/02 20:23		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059952
Client Project ID: HON

Lab Sample No: 605212844
Client Sample ID: 080718JUN02

Project Sample Number: 6059952-003
Matrix: Water

Date Collected: 06/18/02 08:07
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	06/24/02 21:19		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/24/02 21:19		100-41-4		
Toluene	ND	ug/l	2.0	06/24/02 21:19		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/24/02 21:19		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		06/24/02 21:19		98-08-8		

Date: 06/25/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059952
Client Project ID: HON

Lab Sample No: 605212851
Client Sample ID: 074018JUN02

Project Sample Number: 6059952-004
Matrix: Water

Date Collected: 06/18/02 07:40
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	06/24/02 21:47		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/24/02 21:47		100-41-4		
Toluene	ND	ug/l	2.0	06/24/02 21:47		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/24/02 21:47		1330-20-7		
a,a,a-Trifluorotoluene (S)	106	%		06/24/02 21:47		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

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: 6059952
Client Project ID: HON

QC Batch: 124843 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605212802 605212836 605212844 605212851

METHOD BLANK: 605217652
Associated Lab Samples: 605212802 605212836 605212844 605212851

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)	%	108		

LABORATORY CONTROL SAMPLE: 605217660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	21.32	107	84-122	
Ethylbenzene	ug/l	20.00	19.90	100	85-117	
Toluene	ug/l	20.00	21.44	107	87-117	
Xylene (Total)	ug/l	60.00	62.25	104	85-119	
a,a,a-Trifluorotoluene (S)				107	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605218668 605218676

Parameter	Units	605212265 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	6.520	20.00	25.43	25.82	94	96	82-123	2	10	
Ethylbenzene	ug/l	151.2	20.00	173.1	171.4	110	101	84-118	1	10	
Toluene	ug/l	0.7522	20.00	20.01	20.23	96	97	82-117	1	10	
Xylene (Total)	ug/l	28.35	60.00	84.44	85.16	94	95	84-121	1	13	
a,a,a-Trifluorotoluene (S)						98	97	83-115			

Date: 06/25/02

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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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April 04, 2002

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

RE: Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

Dear Mr. Struhs:

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

mjwalls

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: 6057616

Client Project ID: SJB-GW/ HDN

<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>
6057616-001	605018464	TRIPBLANK	Water	03/29/02	04/02/02 09:00
6057616-002	605018472	113729MAR02	Water	03/29/02 11:37	04/02/02 09:00
6057616-003	605018480	113229MAR02	Water	03/29/02 11:32	04/02/02 09:00
6057616-004	605018498	112629MAR02	Water	03/29/02 11:26	04/02/02 09:00
6057616-005	605018506	113429MAR02	Water	03/29/02 11:34	04/02/02 09:00
6057616-006	605018514	114129MAR02	Water	03/29/02 11:41	04/02/02 09:00

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616

Client Project ID: SJB-GW/ HDN

Project			Analysis		Analysis Description	Analytes Reported
Sample Number	Sample No	Client Sample ID	Code			
6057616-001	605018464	TRIPBLANK	8020	WPAC	Aromatic Volatile Organics	5
6057616-002	605018472	113729MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057616-003	605018480	113229MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057616-004	605018498	112629MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057616-005	605018506	113429MAR02	8020	WPAC	Aromatic Volatile Organics	5
6057616-006	605018514	114129MAR02	8020	WPAC	Aromatic Volatile Organics	5

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

Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

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

Lab Sample No: 605018464
Client Sample ID: TRIPBLANK

Project Sample Number: 6057616-001
Matrix: Water

Date Collected: 03/29/02 00:00
Date Received: 04/02/02 09:00

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	04/03/02 15:44	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 15:44	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 15:44	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 15:44	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		04/03/02 15:44	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616

Client Project ID: SJB-GW/ HDN

Lab Sample No: 605018472
Client Sample ID: 113729MAR02

Project Sample Number: 6057616-002
Matrix: Water

Date Collected: 03/29/02 11:37
Date Received: 04/02/02 09:00

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	04/03/02 16:41	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 16:41	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 16:41	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 16:41	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		04/03/02 16:41	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616

Client Project ID: SJB-GW/ HDN

Lab Sample No: 605018480
Client Sample ID: 113229MAR02

Project Sample Number: 6057616-003

Matrix: Water

Date Collected: 03/29/02 11:32

Date Received: 04/02/02 09:00

Parameters	Results	Units	Report Limit	Analyzed by	CAS No.	Footnote	Reg Limit
GC Volatiles							
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021						
Benzene	ND	ug/l	2.0	04/04/02 00:14	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/04/02 00:14	100-41-4		
Toluene	ND	ug/l	2.0	04/04/02 00:14	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/04/02 00:14	1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		04/04/02 00:14	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616

Client Project ID: SJB-GW/ HDN

Lab Sample No: 605018498

Project Sample Number: 6057616-004

Date Collected: 03/29/02 11:26

Client Sample ID: 112629MAR02

Matrix: Water

Date Received: 04/02/02 09:00

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	04/03/02 17:38	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 17:38	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 17:38	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 17:38	1330-20-7		
a,a,a-Trifluorotoluene (S)	100	%		04/03/02 17:38	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

Lab Sample No: 605018506
Client Sample ID: 113429MAR02

Project Sample Number: 6057616-005
Matrix: Water

Date Collected: 03/29/02 11:34
Date Received: 04/02/02 09:00

Parameters	Results	Units	Report Limit	Analyzed by	CAS No.	Fnote	Reg Limit
GC Volatiles							
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021						
Benzene	ND	ug/l	2.0	04/03/02 18:06	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 18:06	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 18:06	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 18:06	1330-20-7		
a,a,a-Trifluorotoluene (S)	102	%		04/03/02 18:06	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

Lab Sample No: 605018514
Client Sample ID: 114129MAR02

Project Sample Number: 6057616-006
Matrix: Water

Date Collected: 03/29/02 11:41
Date Received: 04/02/02 09:00

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	04/03/02 18:34	71-43-2		
Ethylbenzene	ND	ug/l	2.0	04/03/02 18:34	100-41-4		
Toluene	ND	ug/l	2.0	04/03/02 18:34	108-88-3		
Xylene (Total)	ND	ug/l	5.0	04/03/02 18:34	1330-20-7		
a,a,a-Trifluorotoluene (S)	101	%		04/03/02 18:34	2164-17-2		

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616

Client Project ID: SJB-GW/ HDN

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

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

QC Batch: 120213 Analysis Method: EPA 8021
QC Batch Method: EPA 8021 Analysis Description: Aromatic Volatile Organics
Associated Lab Samples: 605018464 605018472 605018480 605018498 605018506
605018514

METHOD BLANK: 605020601
Associated Lab Samples: 605018464 605018472 605018480 605018498 605018506 605018514

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)	%	99		

LABORATORY CONTROL SAMPLE: 605020619

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20	19.71	98	84-122	
Ethylbenzene	ug/l	20	19.23	96	85-117	
Toluene	ug/l	20	19.89	100	87-117	
Xylene (Total)	ug/l	60	60.51	101	85-119	
a,a,a-Trifluorotoluene (S)				98	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605020627 605020635

Parameter	Units	605018779 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	20.74	19.64	104	98	82-123	5	10	
Ethylbenzene	ug/l	0.6828	20.00	19.32	18.37	93	88	84-118	5	10	
Toluene	ug/l	0.1304	20.00	20.07	19.08	100	95	82-117	5	10	
Xylene (Total)	ug/l	0.5255	60.00	61.29	58.45	101	96	84-121	5	13	
a,a,a-Trifluorotoluene (S)						96	99	83-115			

REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057616
Client Project ID: SJB-GW/ HDN

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

Date: 04/04/02

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REPORT OF LABORATORY ANALYSIS

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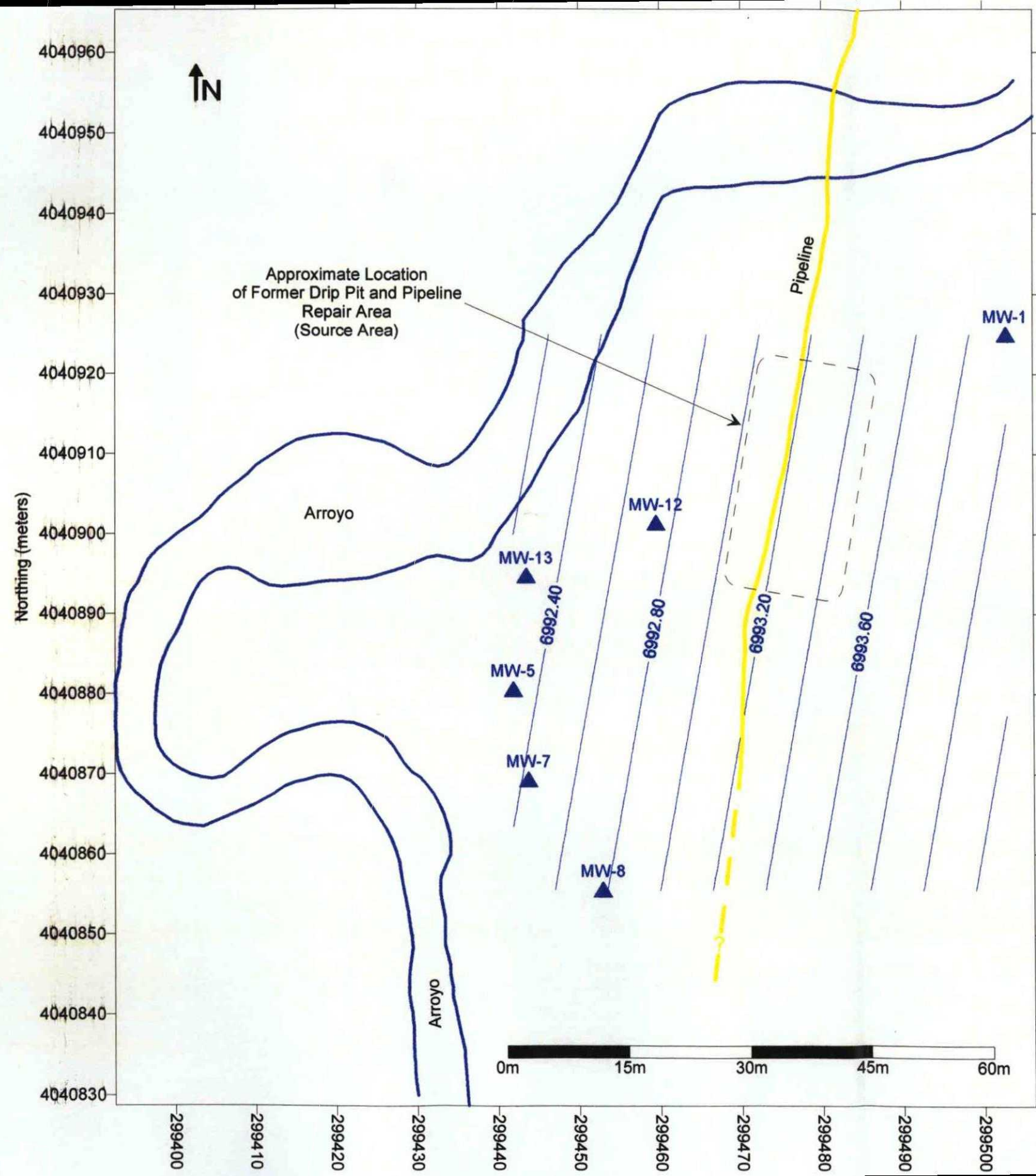


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(March 29, 2002)

LEGEND

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

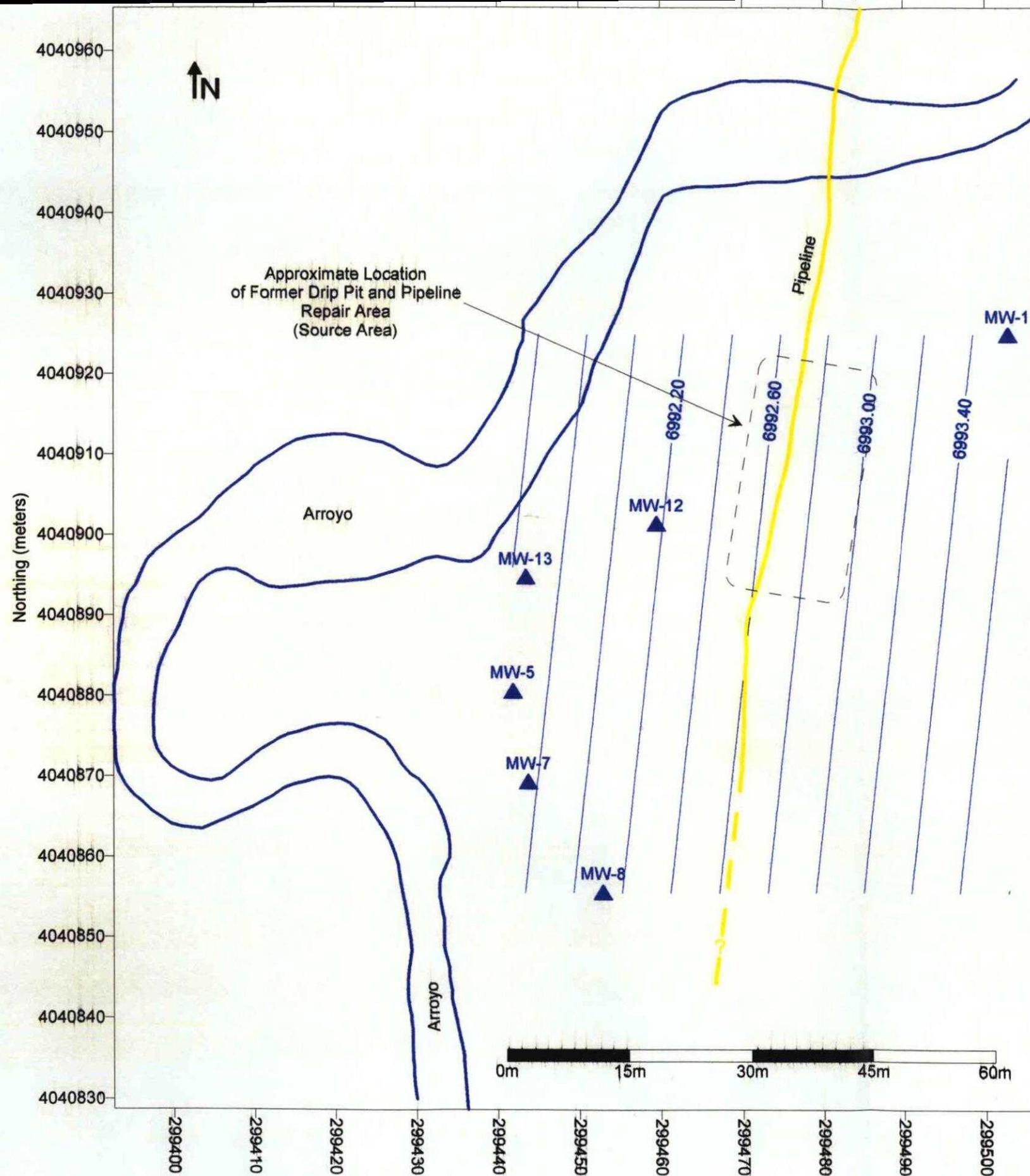


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(June 18, 2002)

LEGEND

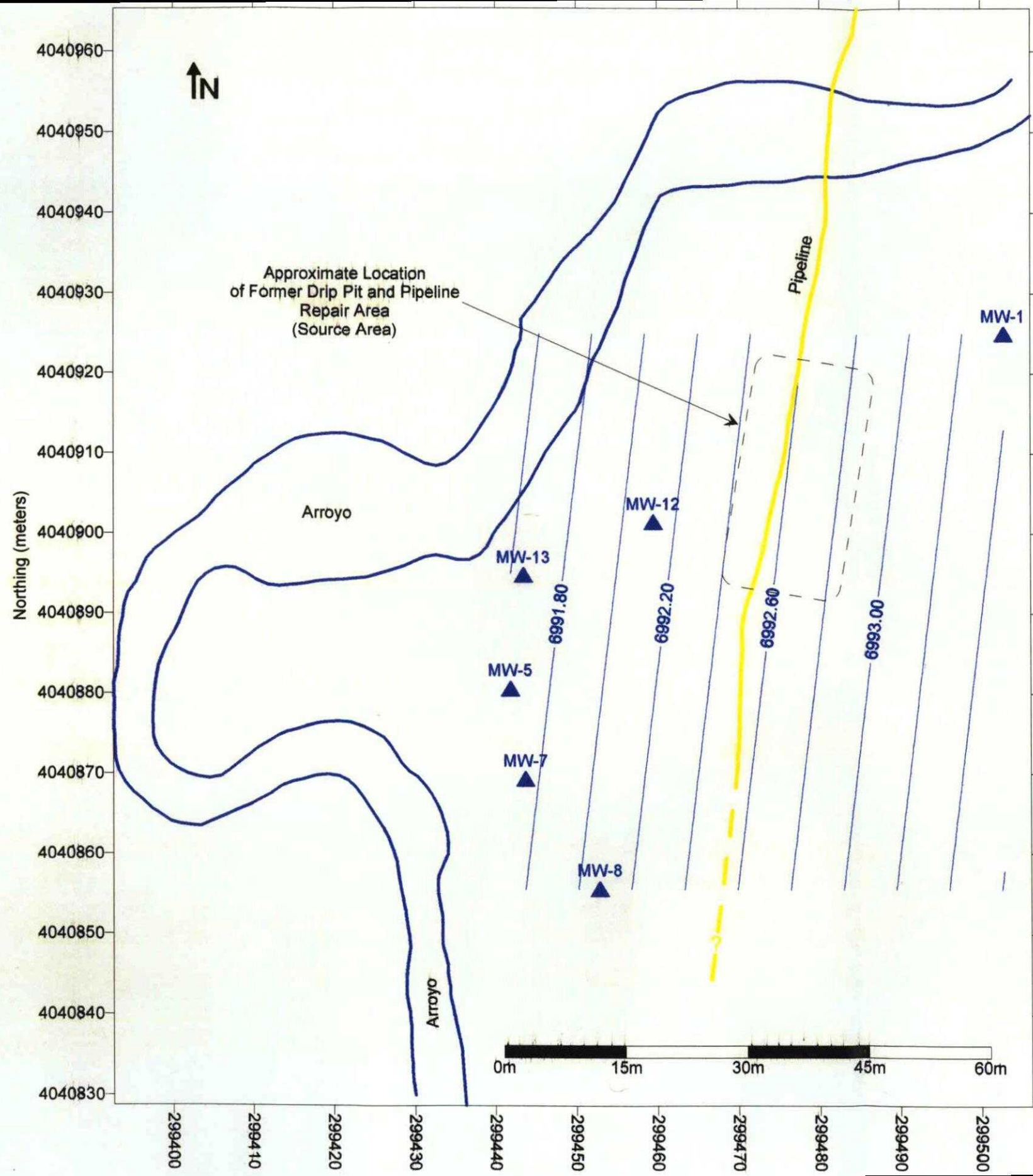
MW-2



Monitoring Well

5585.20

Ground Water Elevation (ft. AMSL)



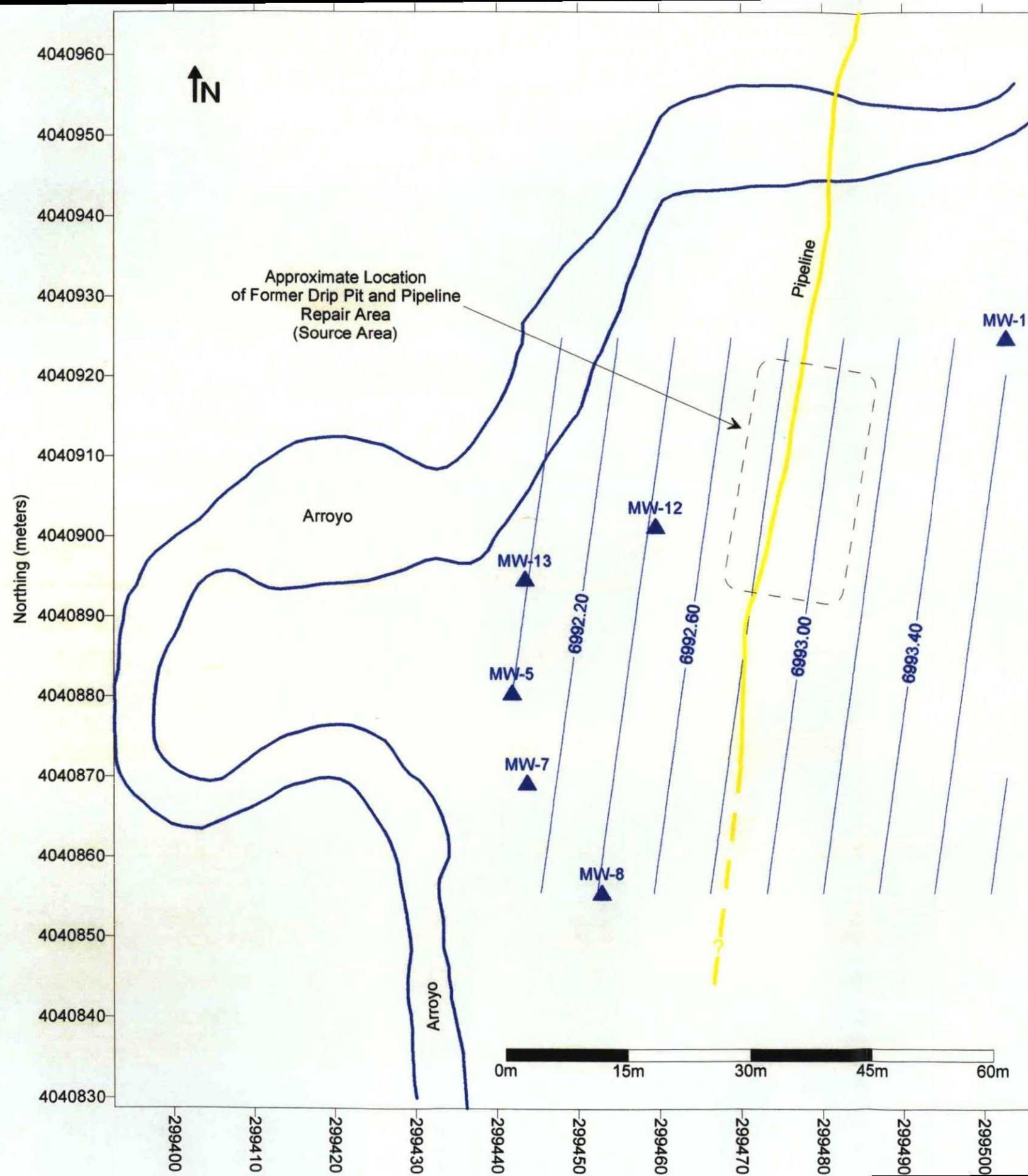


Figure 2
Potentiometric
Surface Map
Honolulu Line Drip
(December 12, 2002)

LEGEND

MW-2
▲

Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)