

**3RP-338**

**Reports**

**Date: 2002**

Done  
10-23-15KC  
SD



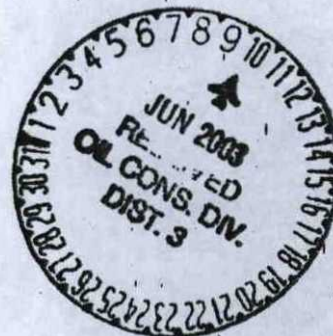


*Environmental Services*  
188 County Road 4900  
Bloomfield, New Mexico 87413  
(505) 634-4956 (office)  
(505) 632-4781 (fax)

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

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Site Name: Patterson A Com A1

Reporting Period: 2002

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Location: Unit G, Sec 2, Twn 31N, Rng 12W  
Canyon: Farmington Glade  
Operator: Burlington

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

### Status Narrative

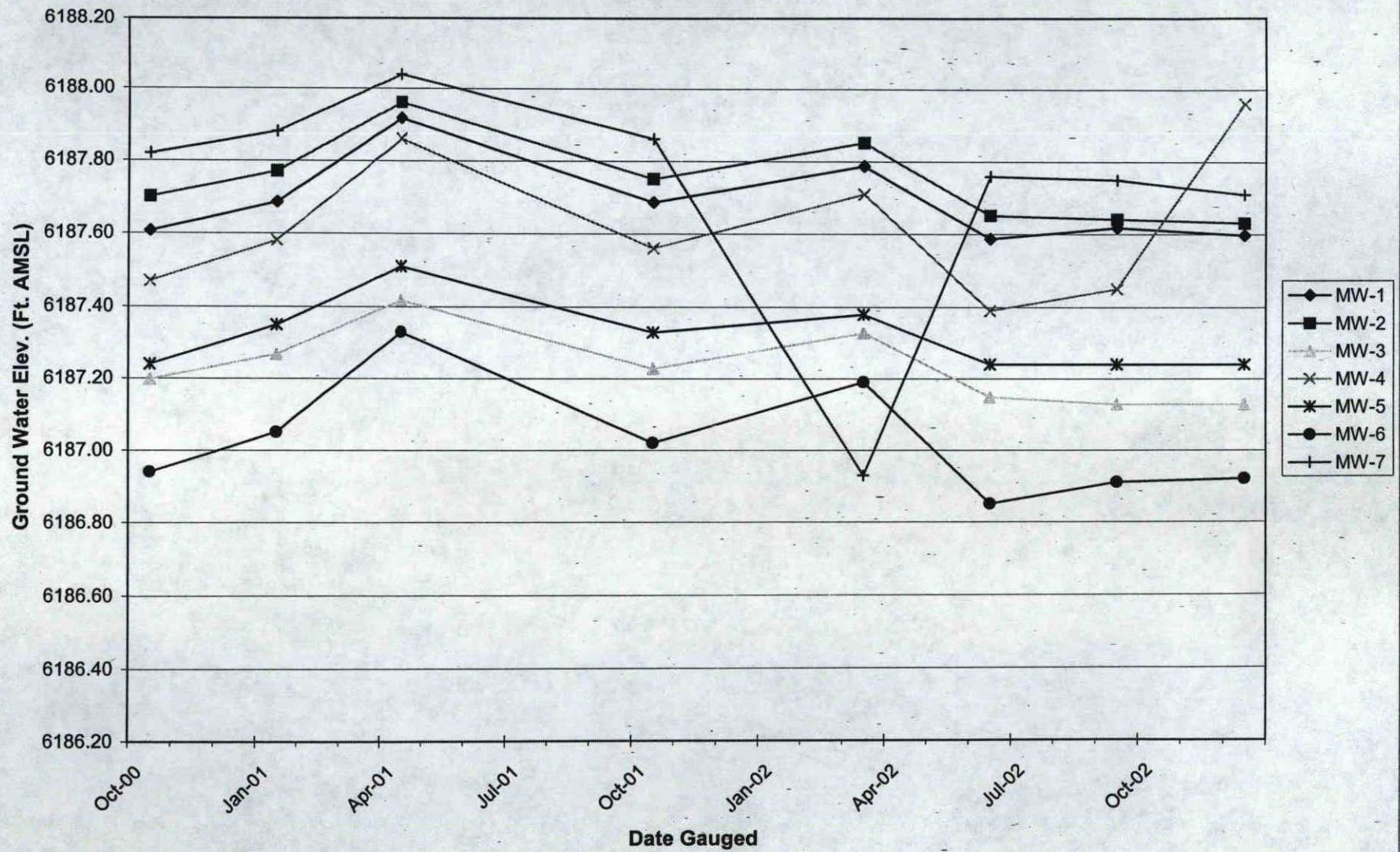
Thirteen quarters of water quality data have been collected from the seven monitoring wells located at this site. Currently, only the source area well, MW-2, contains benzene at concentrations in excess of WQCC standards. Total BTEX levels in MW-2 decreased from 974 ppb in the first quarter to 412.7 ppb in the fourth quarter.

Potentiometric surface maps (Figure 2) depict slight seasonal variations in the direction of ground water flow. In the first quarter, flow was to the south-southeast. In the second and third quarters flow was southeast by south. Ground water flowed in a southeast by east direction in the fourth quarter. The hydraulic gradient was 0.004 to 0.006 throughout the year. Seasonal fluctuations in the water-table elevation are illustrated on the enclosed hydrograph.





Patterson #1A Hydrograph





# Analytical Data Summary

Site Name:

Patterson A Com A1

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						
	3/14/02	105614MAR02	ND	ND	ND	ND
	6/14/02	093014JUN02	ND	ND	ND	ND
	9/12/02	120212SEP02	ND	ND	ND	ND
	12/10/02	111410DEC02	ND	ND	ND	ND
MW-2						
	3/14/02	110914MAR02	880	13.	ND	81.
	6/14/02	100314JUN02	440	24.	ND	37.
	9/12/02	122012SEP02	390	21.	ND	17.
	12/10/02	120010DEC02	410	2.7	ND	ND
MW-3						
	3/14/02	111914MAR02	ND	ND	ND	ND
	6/14/02	094514JUN02	ND	ND	ND	ND
	9/12/02	113512SEP02	ND	ND	ND	ND
	12/10/02	113210DEC02	ND	ND	ND	ND
MW-4						
	12/10/02	114010DEC02	ND	ND	ND	ND
MW-5						
	12/10/02	112310DEC02	ND	ND	ND	ND
MW-6						
	12/10/02	114910DEC02	ND	ND	ND	ND
MW-7						
	3/14/02	112914MAR02	ND	ND	ND	ND
	6/14/02	091314JUN02	ND	ND	ND	ND
	9/12/02	114912SEP02	ND	ND	ND	ND
	12/10/02	110610DEC02	ND	ND	ND	ND



December 23, 2002

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

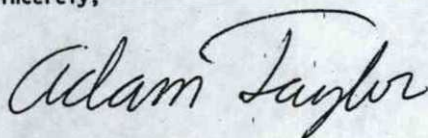
RE: Lab Project Number: 6065822  
Client Project ID: SJB-GW *PTRSN1A*

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 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: 6065822

Client Project ID: SJB-GW

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>	
6065822-001	605680818	113210DEC02	Water	12/10/02 11:32	12/17/02 08:00	
6065822-002	605680826	112310DEC02	Water	12/10/02 11:23	12/17/02 08:00	
6065822-003	605680834	111410DEC02	Water	12/10/02 11:14	12/17/02 08:00	
6065822-004	605680842	110610DEC02	Water	12/10/02 11:06	12/17/02 08:00	
6065822-005	605680859	120010DEC02	Water	12/10/02 12:00	12/17/02 08:00	
6065822-006	605680867	114910DEC02	Water	12/10/02 11:49	12/17/02 08:00	
6065822-007	605680875	114010DEC02	Water	12/10/02 11:40	12/17/02 08:00	

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065822  
Client Project ID: SJB-GW

Lab Sample No: 605680818  
Client Sample ID: 113210DEC02

Project Sample Number: 6065822-001  
Matrix: Water

Date Collected: 12/10/02 11:32  
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0		1.0 12/19/02 17:57 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/19/02 17:57 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/19/02 17:57 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/19/02 17:57 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 12/19/02 17:57 SHF		98-08-8		

Date: 12/23/02

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Lab Sample No: 605680826  
Client Sample ID: 112310DEC02

Project Sample Number: 6065822-002  
Matrix: Water

Date Collected: 12/10/02 11:23  
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0		1.0 12/19/02 18:26 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/19/02 18:26 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/19/02 18:26 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/19/02 18:26 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 12/19/02 18:26 SHF		98-08-8		

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Lab Project Number: 6065822

Client Project ID: SJB-GW

Lab Sample No: 605680834  
Client Sample ID: 111410DEC02

Project Sample Number: 6065822-003  
Matrix: Water

Date Collected: 12/10/02 11:14  
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/19/02 18:54 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 18:54 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/19/02 18:54 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 18:54 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	94	%		1.0	12/19/02 18:54 SHF		98-08-8		

Date: 12/23/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065822

Client Project ID: SJB-GW

Lab Sample No: 605680842  
Client Sample ID: 110610DEC02

Project Sample Number: 6065822-004

Matrix: Water

Date Collected: 12/10/02 11:06

Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	12/19/02 19:23 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 19:23 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	12/19/02 19:23 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 19:23 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	95	%		1.0	12/19/02 19:23 SHF		98-08-8		

Date: 12/23/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065822  
Client Project ID: SJB-GW

Lab Sample No: 605680859  
Client Sample ID: 120010DEC02

Project Sample Number: 6065822-005  
Matrix: Water

Date Collected: 12/10/02 12:00  
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	410	ug/l	10.	5.0	12/20/02 09:38 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	12/19/02 19:51 SHF		100-41-4		
Toluene	2.7	ug/l	2.0	1.0	12/19/02 19:51 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	12/19/02 19:51 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	91	%		1.0	12/19/02 19:51 SHF		98-08-8		

Date: 12/23/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065822

Client Project ID: SJB-GW

Lab Sample No: 605680867  
Client Sample ID: 114910DEC02

Project Sample Number: 6065822-006

Matrix: Water

Date Collected: 12/10/02 11:49

Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics		Method: EPA 8021							
Benzene	ND	ug/l	2.0		1.0 12/19/02 20:20 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/19/02 20:20 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/19/02 20:20 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/19/02 20:20 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 12/19/02 20:20 SHF		98-08-8		

Date: 12/23/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6065822  
Client Project ID: SJB-GW

Lab Sample No: 605680875  
Client Sample ID: 114010DEC02

Project Sample Number: 6065822-007  
Matrix: Water  
Date Collected: 12/10/02 11:40  
Date Received: 12/17/02 08:00

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0		1.0 12/19/02 20:48 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0		1.0 12/19/02 20:48 SHF		100-41-4		
Toluene	ND	ug/l	2.0		1.0 12/19/02 20:48 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0		1.0 12/19/02 20:48 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	96	%			1.0 12/19/02 20:48 SHF		98-08-8		

Date: 12/23/02

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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: 6065822  
Client Project ID: SJB-GW

QC Batch: 135909      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      605680818      605680826      605680834      605680842      605680859  
   605680867      605680875

METHOD BLANK: 605687649  
Associated Lab Samples:      605680818      605680826      605680834      605680842      605680859      605680867      605680875

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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## 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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September 19, 2002

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

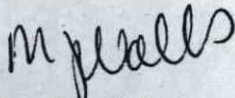
RE: Lab Project Number: 6062690  
Client Project ID: PTRSN

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on September 13, 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: 6062690

Client Project ID: PTRSN

<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>
6062690-001	605429810	120212SEP02	Water	09/12/02 12:02	09/13/02 09:30
6062690-002	605429828	122012SEP02	Water	09/12/02 12:20	09/13/02 09:30
6062690-003	605429836	113512SEP02	Water	09/12/02 11:35	09/13/02 09:30
6062690-004	605429844	114912SEP02	Water	09/12/02 11:49	09/13/02 09:30

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6062690  
Client Project ID: PTRSN

Lab Sample No: 605429810  
Client Sample ID: 120212SEP02

Project Sample Number: 6062690-001  
Matrix: Water

Date Collected: 09/12/02 12:02  
Date Received: 09/13/02 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/18/02 13:09 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/18/02 13:09 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/18/02 13:09 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/18/02 13:09 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/18/02 13:09 SHF		98-08-8		

Date: 09/19/02

Page: 1

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6062690  
Client Project ID: PTRSN

Lab Sample No: 605429828  
Client Sample ID: 122012SEP02

Project Sample Number: 6062690-002  
Matrix: Water

Date Collected: 09/12/02 12:20  
Date Received: 09/13/02 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	ReqLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	390	ug/l	4.0	2.0	09/19/02 08:59	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/18/02 13:38	SHF	100-41-4		
Toluene	21.	ug/l	2.0	1.0	09/18/02 13:38	SHF	108-88-3		
Xylene (Total)	17.	ug/l	5.0	1.0	09/18/02 13:38	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	86	%		1.0	09/18/02 13:38	SHF	98-08-8		

Date: 09/19/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6062690

Client Project ID: PTRSN

Lab Sample No: 605429836  
Client Sample ID: 113512SEP02

Project Sample Number: 6062690-003  
Matrix: Water

Date Collected: 09/12/02 11:35  
Date Received: 09/13/02 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/18/02 14:07 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/18/02 14:07 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/18/02 14:07 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/18/02 14:07 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		1.0	09/18/02 14:07 SHF		98-08-8		

Date: 09/19/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6062690  
Client Project ID: PTRSN

Lab Sample No: 605429844  
Client Sample ID: 114912SEP02

Project Sample Number: 6062690-004  
Matrix: Water

Date Collected: 09/12/02 11:49  
Date Received: 09/13/02 09:30

Parameters	Results	Units	Report Limit	DF	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>									
Aromatic Volatile Organics	Method: EPA 8021								
Benzene	ND	ug/l	2.0	1.0	09/18/02 14:36 SHF		71-43-2		
Ethylbenzene	ND	ug/l	2.0	1.0	09/18/02 14:36 SHF		100-41-4		
Toluene	ND	ug/l	2.0	1.0	09/18/02 14:36 SHF		108-88-3		
Xylene (Total)	ND	ug/l	5.0	1.0	09/18/02 14:36 SHF		1330-20-7		
a,a,a-Trifluorotoluene (S)	98	%		1.0	09/18/02 14:36 SHF		98-08-8		

Date: 09/19/02

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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: 09/19/02

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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: 6062690

Client Project ID: PTRSN

QC Batch: 129934      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      605429810      605429828      605429836      605429844

METHOD BLANK: 605437227  
Associated Lab Samples:      605429810      605429828      605429836      605429844

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: 605437235

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	22.13	111	84-122	
Ethylbenzene	ug/l	20.00	21.49	107	85-117	
Toluene	ug/l	20.00	21.88	109	87-117	
Xylene (Total)	ug/l	60.00	66.64	111	85-119	
a,a,a-Trifluorotoluene (S)				98	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605438290      605438308

Parameter	Units	605419928 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	23.79	23.00	119	115	82-123	3	10	
Ethylbenzene	ug/l	0.6860	20.00	22.53	21.14	109	102	84-118	6	10	
Toluene	ug/l	0	20.00	23.56	22.30	118	112	82-117	5	10	1
Xylene (Total)	ug/l	0.5736	60.00	66.52	65.62	110	108	84-121	1	13	
a,a,a-Trifluorotoluene (S)						98	98	83-115			

Date: 09/19/02

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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.

## REPORT OF LABORATORY ANALYSIS

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June 24, 2002

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

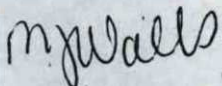
RE: Lab Project Number: 6059949  
Client Project ID: PTRSN1A

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: 6059949

Client Project ID: PTRSN1A

---

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>
6059949-001	605212638	093014JUN02	Water	06/14/02 09:30	06/20/02 09:00
6059949-002	605212646	100314JUN02	Water	06/14/02 10:03	06/20/02 09:00
6059949-003	605212661	094514JUN02	Water	06/14/02 09:45	06/20/02 09:00
6059949-004	605212679	091314JUN02	Water	06/14/02 09:13	06/20/02 09:00

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059949

Client Project ID: PTRSN1A

Lab Sample No: 605212638  
Client Sample ID: 093014JUN02Project Sample Number: 6059949-001  
Matrix: WaterDate Collected: 06/14/02 09:30  
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	06/21/02 16:26		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 16:26		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 16:26		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 16:26		1330-20-7		
a,a,a-Trifluorotoluene (S)	107	%		06/21/02 16:26		98-08-8		

**REPORT OF LABORATORY ANALYSIS**

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Lab Project Number: 6059949

Client Project ID: PTRSN1A

Lab Sample No: 605212646

Client Sample ID: 100314JUN02

Project Sample Number: 6059949-002

Matrix: Water

Date Collected: 06/14/02 10:03

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	440	ug/l	10.	06/24/02 10:22		71-43-2		
Ethylbenzene	ND	ug/l	10.	06/24/02 10:22		100-41-4		
Toluene	24.	ug/l	10.	06/24/02 10:22		108-88-3		
Xylene (Total)	37.	ug/l	25.	06/24/02 10:22		1330-20-7		
a,a,a-Trifluorotoluene (S)	99	%		06/24/02 10:22		98-08-8	1	

Date: 06/24/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6059949

Client Project ID: PTRSN1A

Lab Sample No: 605212661  
Client Sample ID: 094514JUN02

Project Sample Number: 6059949-003  
Matrix: Water

Date Collected: 06/14/02 09:45  
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>								
Aromatic Volatile Organics		Method: EPA 8021						
Benzene	ND	ug/l	2.0	06/21/02 17:24		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 17:24		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 17:24		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 17:24		1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		06/21/02 17:24		98-08-8		

Date: 06/24/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Sample No: 605212679  
Client Sample ID: 091314JUN02

Project Sample Number: 6059949-004  
Matrix: Water

Date Collected: 06/14/02 09:13  
Date Received: 06/20/02 09:00

Parameters	Results	Units	Report Limit	Analyzed	By	CAS No.	Qual	RegLmt
<b>GC Volatiles</b>								
Aromatic Volatile Organics	Method: EPA 8021							
Benzene	ND	ug/l	2.0	06/21/02 18:51		71-43-2		
Ethylbenzene	ND	ug/l	2.0	06/21/02 18:51		100-41-4		
Toluene	ND	ug/l	2.0	06/21/02 18:51		108-88-3		
Xylene (Total)	ND	ug/l	5.0	06/21/02 18:51		1330-20-7		
a,a,a-Trifluorotoluene (S)	105	%		06/21/02 18:51		98-08-8		

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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]	Elevated quantitation limits resulting from a dilution.

**REPORT OF LABORATORY ANALYSIS**

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## QUALITY CONTROL DATA

Lab Project Number: 6059949

Client Project ID: PTRSN1A

QC Batch: 124756      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      605212638      605212646      605212661      605212679

METHOD BLANK: 605213867  
Associated Lab Samples:      605212638      605212646      605212661      605212679

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)	%	105		

LABORATORY CONTROL SAMPLE: 605213875

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Footnotes
Benzene	ug/l	20.00	20.84	104	84-122	
Ethylbenzene	ug/l	20.00	19.43	97	85-117	
Toluene	ug/l	20.00	20.90	104	87-117	
Xylene (Total)	ug/l	60.00	61.51	103	85-119	
a,a,a-Trifluorotoluene (S)				105	83-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 605214295      605214303

Parameter	Units	605212448 Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Footnotes
Benzene	ug/l	0	20.00	20.87	20.86	104	104	82-123	0	10	
Ethylbenzene	ug/l	0.6632	20.00	19.57	19.59	94	95	84-118	0	10	
Toluene	ug/l	0.1954	20.00	20.97	20.92	104	104	82-117	0	10	
Xylene (Total)	ug/l	0.3424	60.00	61.58	61.48	102	102	84-121	0	13	
a,a,a-Trifluorotoluene (S)						104	106	83-115			

Date: 06/24/02

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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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March 27, 2002

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

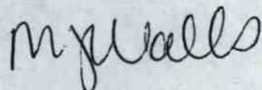
RE: Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

Dear Mr. Struhs:

Enclosed are the analytical results for sample(s) received by the laboratory on March 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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MILE HIGH ENVIRONMENTAL  
187 C.R. 4980  
Bloomfield, NM 87413

Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

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

Lab Sample No: 604988105  
Client Sample ID: 105614MAR02

Project Sample Number: 6057268-001  
Matrix: Water

Date Collected: 03/14/02 10:56  
Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
<b>GC Volatiles</b>								
Aromatic Volatile Organics								
Prep/Method: EPA 8021 / EPA 8021								
Benzene	ND	ug/l	2.0	03/26/02 11:00	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 11:00	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 11:00	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 11:00	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	104	%		03/26/02 11:00	SHF	2164-17-2		

Date: 03/27/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

Lab Sample No: 604988113      Project Sample Number: 6057268-002      Date Collected: 03/14/02 11:19  
Client Sample ID: 111914MAR02      Matrix: Water      Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
<b>GC Volatiles</b>								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	ND	ug/l	2.0	03/26/02 11:29	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 11:29	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 11:29	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 11:29	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		03/26/02 11:29	SHF	2164-17-2		

Date: 03/27/02

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Lab Project Number: 6057268

Client Project ID: SJB-GW PTRNIA

Lab Sample No: 604988121

Project Sample Number: 6057268-003

Date Collected: 03/14/02 11:29

Client Sample ID: 112914MAR02

Matrix: Water

Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
<b>GC Volatiles</b>								
Aromatic Volatile Organics								
Prep/Method: EPA 8021 / EPA 8021								
Benzene	ND	ug/l	2.0	03/26/02 11:58	SHF	71-43-2		
Ethylbenzene	ND	ug/l	2.0	03/26/02 11:58	SHF	100-41-4		
Toluene	ND	ug/l	2.0	03/26/02 11:58	SHF	108-88-3		
Xylene (Total)	ND	ug/l	5.0	03/26/02 11:58	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	103	%		03/26/02 11:58	SHF	2164-17-2		

Date: 03/27/02

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## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

Lab Sample No: 604988139  
Client Sample ID: 110914MAR02

Project Sample Number: 6057268-004  
Matrix: Water

Date Collected: 03/14/02 11:09  
Date Received: 03/20/02 10:35

Parameters	Results	Units	Report Limit	Analyzed	by	CAS No.	Ftnote	Reg Limit
<b>GC Volatiles</b>								
Aromatic Volatile Organics	Prep/Method: EPA 8021 / EPA 8021							
Benzene	880	ug/l	10.	03/26/02 12:27	SHF	71-43-2	1	
Ethylbenzene	ND	ug/l	2.0	03/26/02 12:27	SHF	100-41-4		
Toluene	13.	ug/l	2.0	03/26/02 12:27	SHF	108-88-3		
Xylene (Total)	81.	ug/l	5.0	03/26/02 12:27	SHF	1330-20-7		
a,a,a-Trifluorotoluene (S)	91	%		03/26/02 12:27	SHF	2164-17-2		

Date: 03/27/02

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Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

---

**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] Result from a 1:5 dilution on 3-26-02.

Date: 03/27/02

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**REPORT OF LABORATORY ANALYSIS**

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Lab Project Number: 6057268

Client Project ID: SJB-GW PTRNIA

QC Batch: 119682      Analysis Method: EPA 8021  
QC Batch Method: EPA 8021      Analysis Description: Aromatic Volatile Organics  
Associated Lab Samples:      604988105      604988113      604988121      604988139

METHOD BLANK: 604997049  
Associated Lab Samples:      604988105      604988113      604988121      604988139

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)	%	104		

LABORATORY CONTROL SAMPLE: 604997056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	Footnotes
Benzene	ug/l	20	22.56	113	
Ethylbenzene	ug/l	20	22.20	111	
Toluene	ug/l	20	22.39	112	
Xylene (Total)	ug/l	60	70.10	117	
a,a,a-Trifluorotoluene (S)				103	1

## REPORT OF LABORATORY ANALYSIS

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Lab Project Number: 6057268  
Client Project ID: SJB-GW PTRNIA

---

### 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] Insufficient sample volume received for the MS/MSD. Acceptable recovery of the LCS indicates the analytical system is in control.

Date: 03/27/02

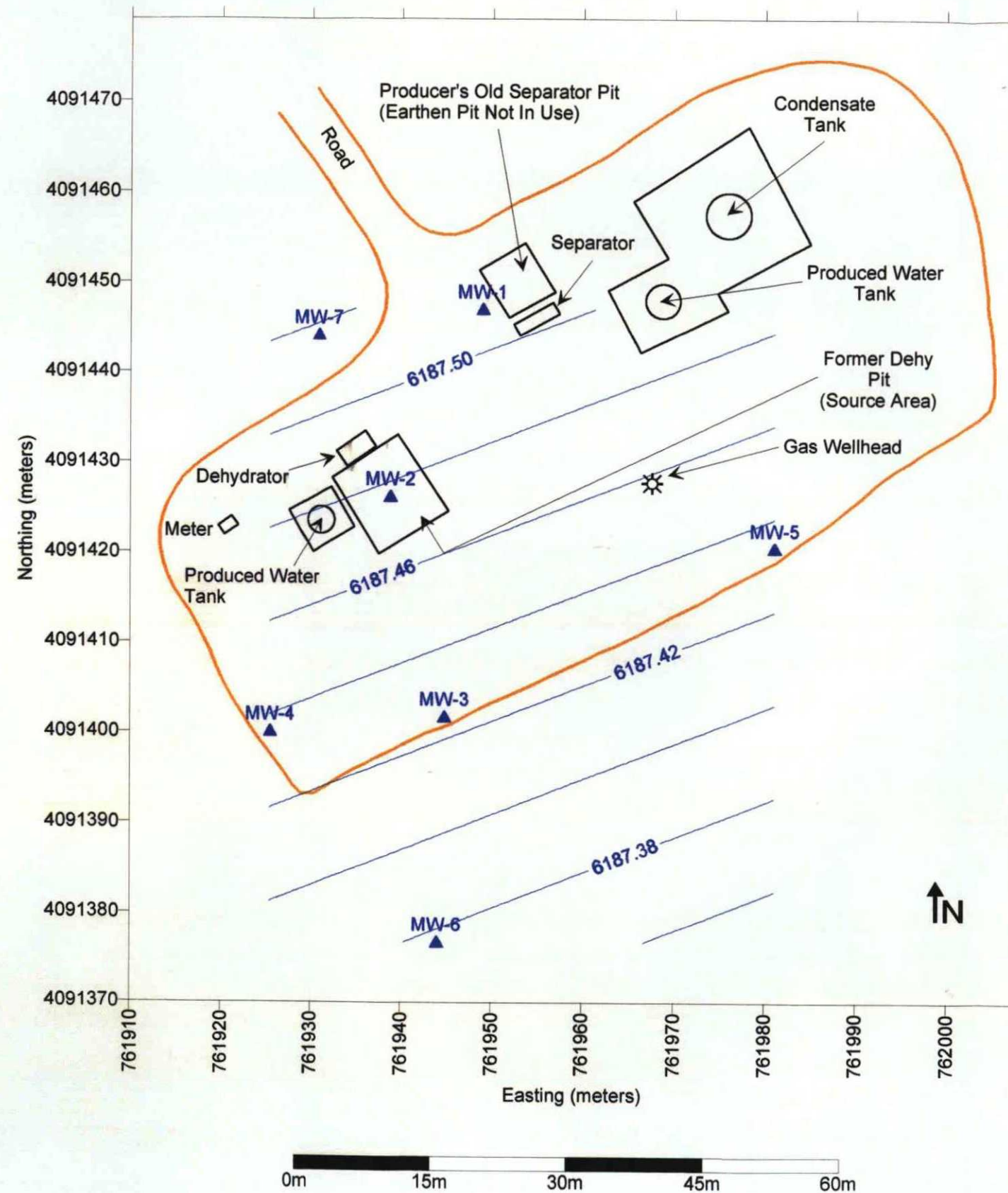
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## REPORT OF LABORATORY ANALYSIS

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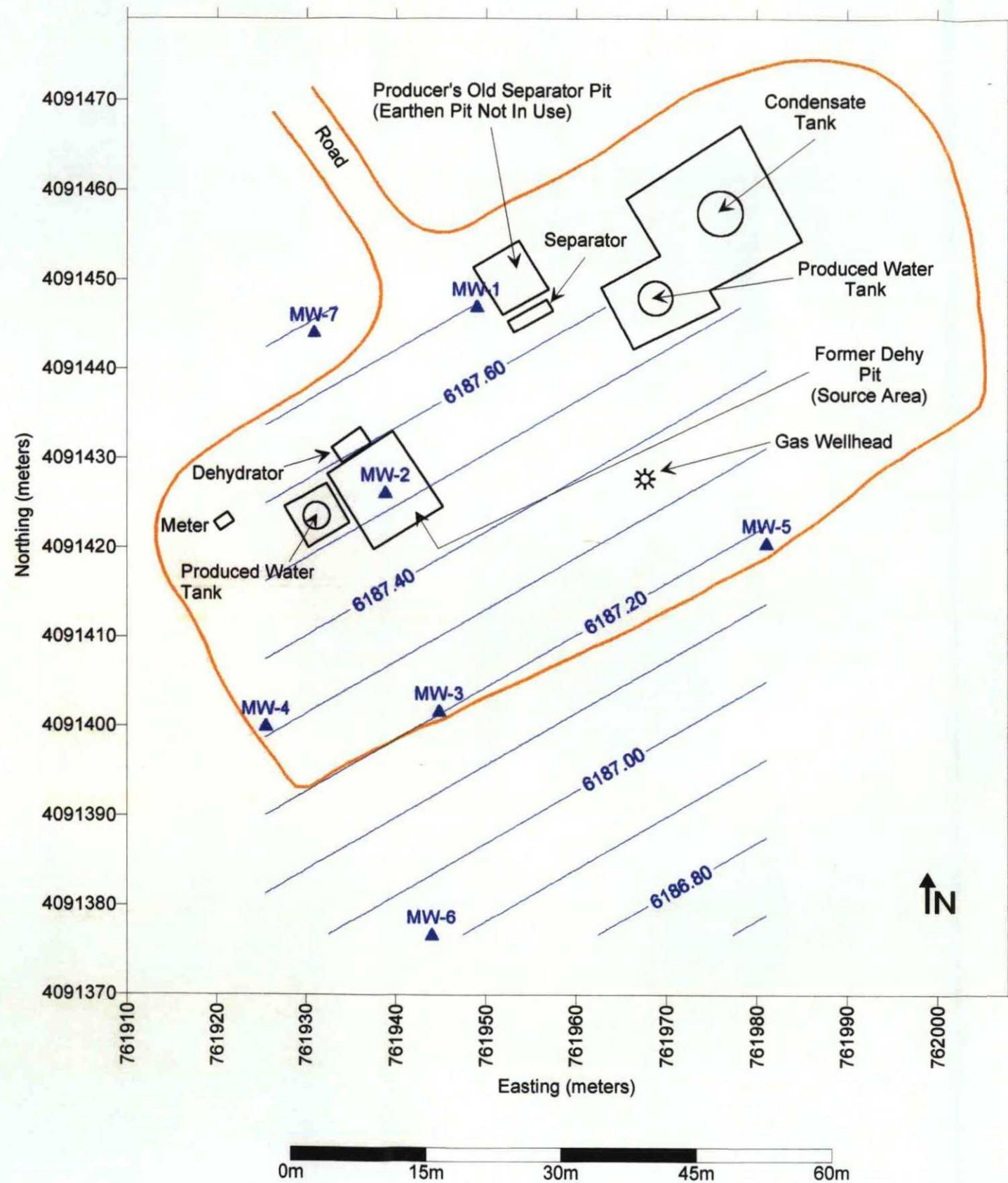


**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Patterson #1A**  
**(March 14, 2002)**

**LEGEND**

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



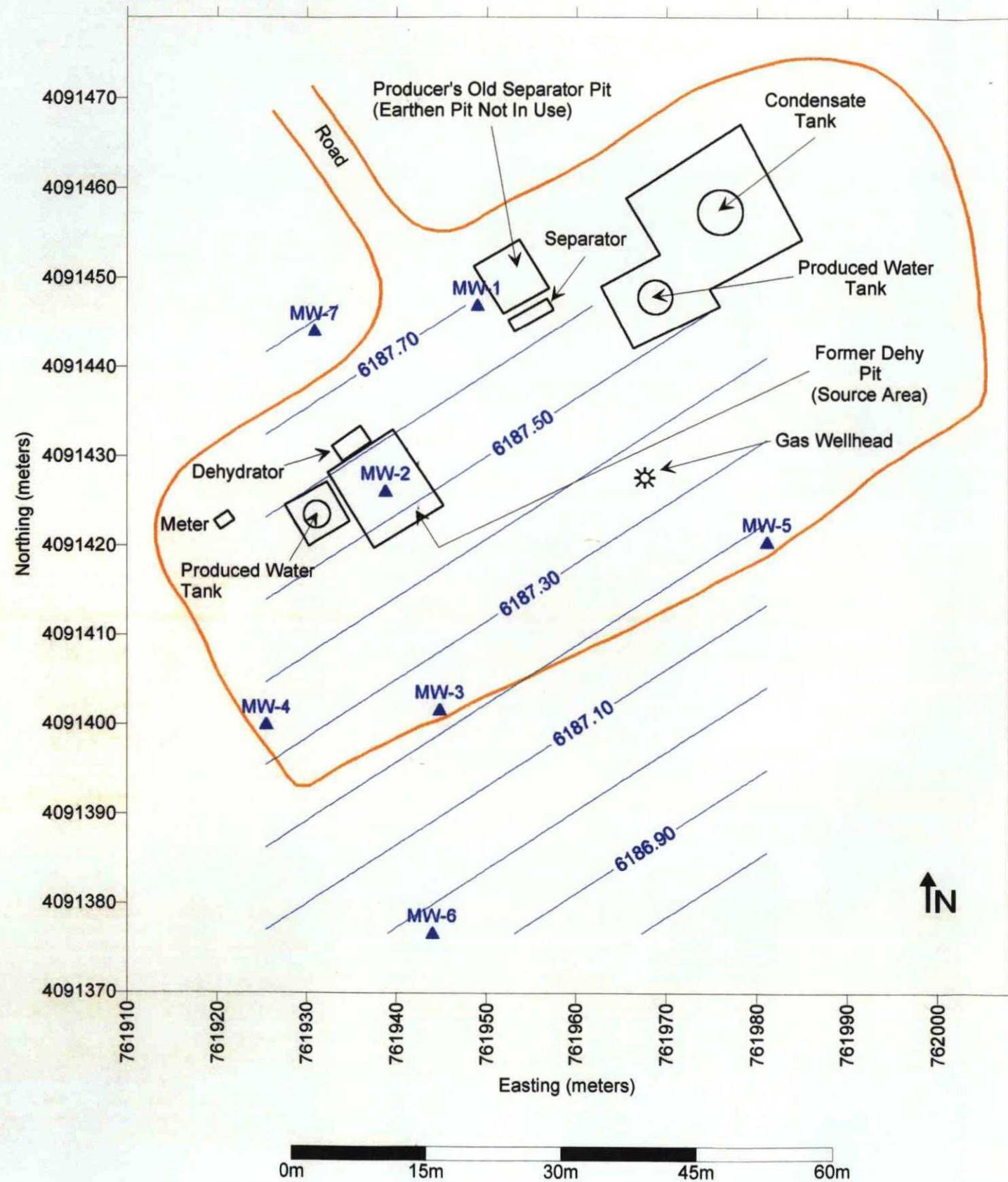


**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Patterson #1A**  
**(June 14, 2002)**

**LEGEND**

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





**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Patterson #1A**  
**(September 12, 2002)**

**LEGEND**

MW-2

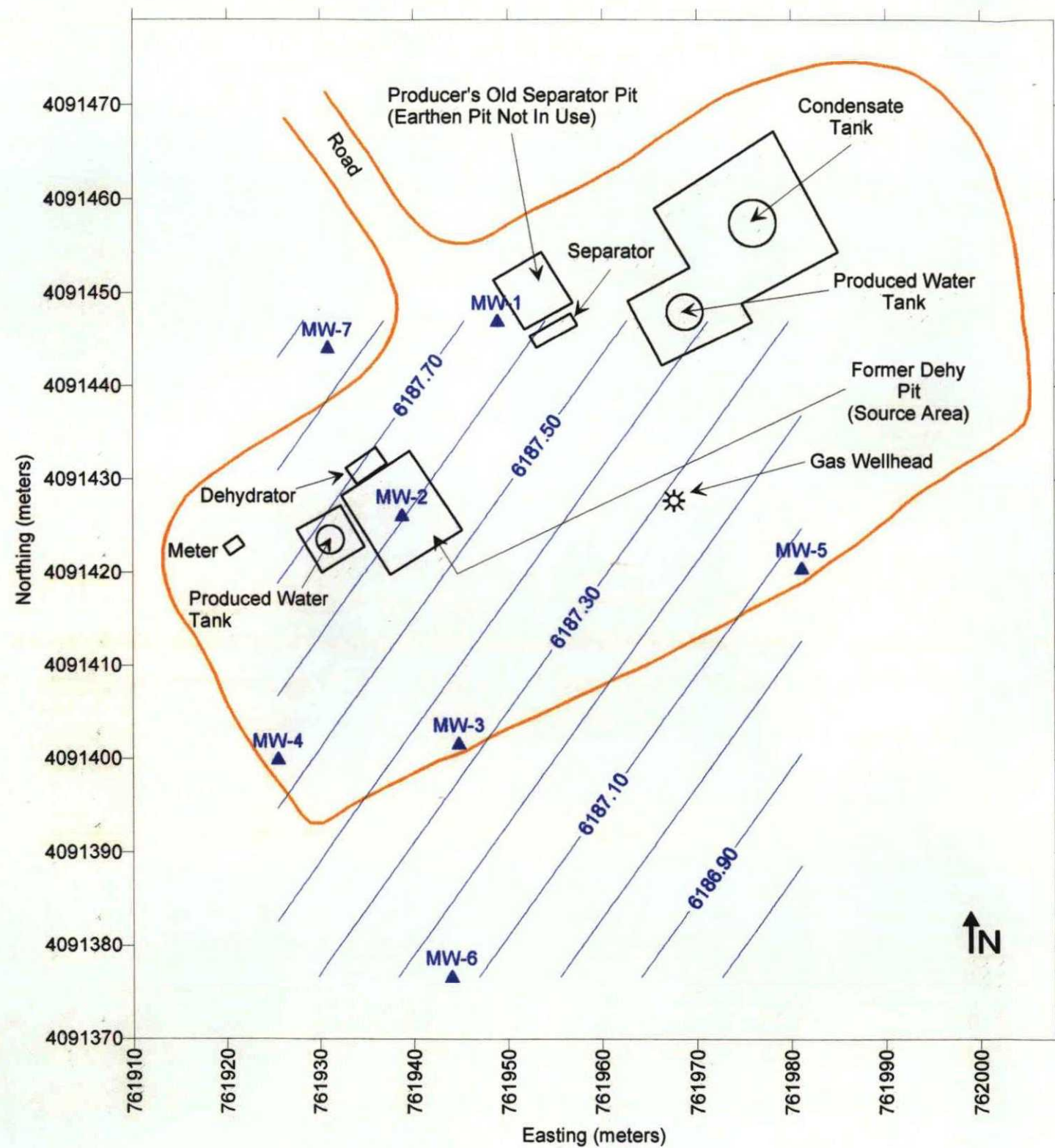


Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)





**Figure 2**  
**Potentiometric**  
**Surface Map**  
**Patterson #1A**  
**(December 10, 2002)**

**LEGEND**

MW-2

Monitoring Well

— 5585.20 —

Ground Water Elevation (ft. AMSL)