## SURFACE WATER AND GROUNDWATER MONITORING PROGRAM FALL 2002 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

ARCH CHEMICALS, INC. CHARLESTON, TENNESSEE

February 2003

## SURFACE WATER AND GROUNDWATER MONITORING PROGRAM FALL 2002 MONITORING REPORT

#### ARCH CHEMICALS ROCHESTER PLANT SITE ROCHESTER, NEW YORK

Prepared by

MACTEC Engineering & Consulting, Inc. Portland, Maine

for

ARCH CHEMICALS, INC. Charleston, Tennessee

February 2003

This document was prepared for the sole use of Arch Chemicals, Inc., the only intended beneficiary(ies) of our work. No other party shall rely on the information contained herein without prior written consent of MACTEC Engineering & Consulting, Inc..

This document meets standards prescribed in project planning documents and has been properly reviewed by qualified professionals.

Nelson M. Breton, C.G.

**Project Geologist** 

Aeffrey/E. Brandow, P.E.

Mality Control Reviewer

#### **TABLE OF CONTENTS**

				Page				
Execut	ive Sur	nmary		1				
1.0	Introdu	ıction		2				
2.0	Sample	e Collect	tion and Analysis	2				
	2.1	Ground	water	2				
	2.2	Surface Water						
	2.3	Analytical Procedures						
	2.4	Quality Control						
3.0	Analytical Results							
	3.1	Ground	lwater	4				
		3.1.1	Chloropyridines	4				
		3.1.2	Selected VOCs	5				
	3.2	Surface	e Water	5				
		3.2.1	Quarry	5				
		3.2.2	Barge Canal	6				
4.0	Extrac	tion Sys	tem Performance and Maintenance	6				
5.0	Other	Issues		6				
6.0	Next N	<b>1</b> onitorin	g Event	7				
APPEI	NDICES	6						

Appendix A	Groundwater Field Sampling Data Sheets
Appendix B	Well Trend Data

#### **LIST OF FIGURES**

Figure 1	Off-Site Groundwater Monitoring Well Locations
Figure 2	On-Site Monitoring Well Locations
Figure 3	Fall 2002 Overburden Groundwater Interpreted Piezometric Contours
Figure 4	Fall 2002 Bedrock Groundwater Interpreted Piezometric Contours
Figure 5	Fall 2002 Deep Bedrock Groundwater Interpreted Piezometric Contours
Figure 6	Sample Locations - Erie Barge Canal
Figure 7	Sample Locations - Dolomite Products Quarry
Figure 8	Fall 2002 Selected Chloropyridine Concentration Contours for Groundwater
Figure 9	Fall 2002 Selected Volatile Organic Compound Concentration Contours for Groundwater

#### LIST OF TABLES

Table 1	Fall 2002 Sampling and Analytical Program
Table 2	Fall 2002 Groundwater Monitoring Results - Chloropyridines
Table 3	Fall 2002 Groundwater Monitoring Results – Volatile Organic Compounds
Table 4	Comparison of Fall 2002 Chloropyridines and Volatile Organic Concentrations in Groundwater to Previous Results
Table 5	Fall 2002 Canal/Quarry Monitoring Results
Table 6	Extraction Well Weekly Flow Measurements – July 2002 through December 2002
Table 7	Mass Removal Summary, Period: 6/1/01 – 11/29/02
Table 8	2003 Sampling Schedule

#### **EXECUTIVE SUMMARY**

This monitoring report presents the results of an on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility. Results in this report include surface and groundwater samples collected from November 18, 2002 through November 21, 2002.

During this monitoring event, samples from a total of 20 groundwater monitoring or pumping wells and three locations associated with the Dolomite Products Quarry seep and outfall were collected and analyzed by Severn Trent Laboratories in Amherst, New York. This included a sample from monitoring well MW-16, located on the former General Circuits facility.

As in prior reports, groundwater monitoring results were compared with previous average concentrations for the on-site and off-site monitoring wells. Several monitoring wells had contaminant concentrations exceeding their respective 5-year prior averages. Contaminant contour plots are generally consistent with past observations, except for a limited extent of off-site migration of volatile organic compounds that appears in shallow bedrock groundwater in this sampling event. This area is targeted for installation of an additional bedrock extraction well as part of the selected remedy for the site.

Samples from the quarry seep and outfall remained below historical averages. The sample collected from the Erie Barge Canal contained trace levels of 2-chloropyridine and acetone.

The on-site groundwater extraction system continues to function well. During the period from June 1 through November 29, 2002, approximately 6.4 million gallons of groundwater was pumped to the on-site treatment system, containing an estimated 530 pounds of chloropyridines and 200 pounds of target volatile organic compounds. Repair work is planned in the Spring of 2003 at pumping well BR-6A to replace a clogged discharge line. Reduced yield from pumping well PW10 will be evaluated in the first half of 2003. Rehabilitation efforts may be necessary at this well to improve pumping rates.

Arch Chemicals expects to sign a new Administrative Order on Consent in the near future that will establish additional remedial measures for the site. These measures will include the additional bedrock extraction well mentioned above, an overburden groundwater interceptor trench in the southeast corner of the plant, and other actions as described in the site's Record of Decision, issued on March 29, 2002.

#### 1.0 INTRODUCTION

In accordance with the Order on Consent executed between Olin Corporation and the New York State Department of Environmental Conservation (NYSDEC), effective August 23, 1993 and transferred to Arch Chemicals, Inc. (Arch) on February 15, 1999, Arch has completed a Remedial Investigation and Feasibility Study at its facility on McKee Road in Rochester, New York. As part of this program, Arch conducts twice-yearly monitoring events consisting of sampling and chemical analysis of groundwater and surface water in the vicinity of the Rochester facility.

The Fall 2002 sampling event included the collection and analysis of a total of twenty-three groundwater, surface water, and seep samples from off-site and on-site locations. Samples were collected from November 18 through November 21, 2002, for analysis of selected chloropyridines and volatile organic compounds (VOCs).

This report presents the full results of the Fall 2002 monitoring event.

#### 2.0 SAMPLE COLLECTION AND ANALYSIS

#### 2.1 GROUNDWATER

Groundwater samples were collected from off-site wells, on-site wells and piezometers for analysis of selected chloropyridines (2-chloropyridine, 2,6-dichloropyridine, 3-chloropyridine, 4-chloropyridine, pyridine, and p-fluoroaniline) and target compound list (TCL) VOCs, except that the sample from monitoring well MW-16, located on the former General Circuits property, was analyzed for chloropyridines only. Samples were collected by Severn Trent Laboratories and transported to their laboratory in Amherst, New York for analysis. The off-site and on-site locations of these sampling points are shown in Figures 1 and 2, respectively. Table 1 lists the wells that were sampled and the requested analyses. Groundwater sampling data sheets are provided in Appendix A.

Groundwater was collected with the low flow/low stress purging technique from most of the wells using bladder or peristaltic pumps. Samples from pumping wells (BR-5A, BR-6A, BR-9, PW10, PW11, and PW12) were collected from the discharge lines.

Groundwater piezometric elevations were measured on November 18, 2002. Piezometric contour maps were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented in Figures 3, 4, and 5.

#### 2.2 SURFACE WATER

Surface water and quarry samples were collected as part of the on-going monitoring program for the Arch Rochester site. The location of the quarry and its outfall in relation to the site is shown on Figure 6. Samples of the quarry seep, the quarry outfall, and the Barge Canal were collected by Severn Trent Laboratories on November 18, 2002. Samples were analyzed for selected chloropyridines and TCL VOCs. The three locations sampled during this event are listed below and are shown on Figure 7.

#### 2.3 ANALYTICAL PROCEDURES

The analytical procedures, data review findings, and validated data for the Fall 2002 groundwater monitoring event are discussed in the following paragraphs.

Samples were analyzed for the Arch suite of selected chloropyridines and TCL VOCs by USEPA SW-846 Methods 8270C and 8260B, respectively. The reporting limits for the chloropyridines and VOCs are 10 micrograms per liter ( $\mu$ g/L) and 5 to 25  $\mu$ g/L, respectively, for undiluted samples.

#### 2.4 QUALITY CONTROL

All laboratory analytical results were reviewed and qualified following USEPA Region II modifications to "Laboratory Data Validation Functional Guidelines for Validating Organic Analyses" (USEPA, 9/1994). Analytical results were evaluated for the following parameters:

- Collection and Preservation
- \* Holding Times
   Surrogate Recoveries
   Blanks
   Duplicates
- Laboratory Control Samples
   Matrix Spike/Matrix Spike Duplicates
  - \* all criteria were met for this parameter

With the exception of the following items discussed below, results are determined to be usable without qualifying statements as reported by the laboratory.

Collection and Preservation. Two of the sample coolers were received by the laboratory at temperatures above the 4°C (+/-2°) QC limit. All coolers were verified by the laboratory to contain ice. Since samples were collected and were received by the laboratory on the same day, it was not possible for the samples to cool to the required 4°C. There is no impact on the sample data and no qualifications were necessary.

<u>Surrogates Recoveries.</u> One SVOC surrogate standard (2-fluorobiphenyl) recovery was below the QC limits in sample PZ-101. Validation guidelines indicate corrective action should be taken by the laboratory only if two or more SVOC surrogates are outside QC limits, therefore, since all other surrogate recoveries for PZ-101 were within QC limits, no qualifications were necessary.

<u>Blanks</u>. No trip blank was received by the laboratory with the VOC samples delivered on November 20<sup>th</sup> although the chain of custody had one listed. No contamination was observed in the rinsate blank, method blanks, or other trip blanks; therefore, no qualifications were necessary.

<u>Field Duplicate Pairs</u>. No field duplicate samples were collected or submitted to the laboratory for the November 2002 sampling event.

<u>Matrix Spike/Matrix Spike Duplicate</u>. The relative percent difference (RPD) for p-fluoroaniline was outside the QC control limits for the MS/MSD analyses on PW-11; therefore, the p-fluoroaniline result in the original un-spiked sample was qualified as estimated (J).

#### 3.0 ANALYTICAL RESULTS

#### 3.1 GROUNDWATER

The validated results from the Fall 2002 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the Fall 2002 analytical results for selected chloropyridines and VOCs in representative wells to mean concentrations of the prior five years (Fall 1997 through Spring 2002). Long term trends for both selected chloropyridines and VOCs are also presented as time-series plots for representative wells in Appendix B. A summary of the analytical findings is presented below by parameter class.

#### 3.1.1 Chloropyridines

<u>On-Site.</u> Chloropyridines were detected above sample quantitation limits in each of the eleven on-site monitoring wells sampled in the Fall 2002 event. Concentrations of chloropyridines ranged from 197 micrograms per liter (μg/L) to 43,000 μg/L (sum of all chloropyridine isomer concentrations). Pumping wells BR-5A and PW-12, along with monitoring wells PZ-107, E-1, and S-3 show selected chloropyridines concentrations above the mean from monitoring events over the previous five years.

<u>Off-Site.</u> Chloropyridines were detected above sample quantitation limits in each of the nine off-site wells that were sampled. Concentrations of total selected chloropyridines ranged from 360  $\mu$ g/L (MW-16) to approximately 12,000  $\mu$ g/L (MW-106). Two of the off-site wells (PZ-104 and MW-16) contained total chloropyridines concentrations in exceedance of their 5-year prior means.

Concentration Contours. Chloropyridine distribution in groundwater is shown as a set of concentration contours on Figure 8. The contours were developed using data from both overburden and bedrock monitoring wells. As shown on Figure 8, and consistent with previous sampling rounds, total chloropyridine concentrations exceeding 10,000 µg/L extend slightly west of the Site property boundary. In addition, based on the continued detection of chloropyridines in MW-16 due east of the site, Figure 8 shows a distribution pattern in which chloropyridines are interpreted to have migrated eastward in bedrock groundwater.

#### 3.1.2 Selected VOCs.

<u>On-Site.</u> Concentrations of VOCs ranged from 3.1 to 30,000 μg/L for the sum of several site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). One of the eleven on-site wells sampled in the Fall 2002 event (PW-11) had VOC concentrations greater than its 5-year prior mean. In addition to the selected VOCs, other notable constituents detected in on-site wells include chlorobenzene (in 10 out of 11 wells), benzene (8 of 11), 1,2-DCE (8 of 11), vinyl chloride (8 of 11), toluene (7 of 11), and carbon disulfide (4 of 11).

Off-Site. Selected VOCs were detected in all eight off-site wells sarripled for VOCs in the Fall 2002 event. Total concentrations of selected VOCs ranged from an estimated 1.6 ug/L to approximately 27,000 ug/L (PZ-103). Six of the eight off-site wells had selected VOC concentrations above their prior 5-year mean. In addition to the selected VOCs, other notable constituents detected in off-site wells include benzene (in 8 out of 8 wells), chlorobenzene (7 of 8), 1,2-DCE (4 of 8), toluene (4 of 8), and carbon disulfide (4 of 8).

Concentration Contours. Selected VOCs distribution in groundwater is shown as a set of concentration contours on Figure 9. These contours were developed using both overburden and bedrock groundwater data. In contrast to previous monitoring events, the VOC contours show a limited extent of off-site migration in shallow bedrock groundwater from the southwest portion of the plant. This area is targeted for installation of an additional bedrock extraction well as part of the selected remedial action for the site (see Section 5). The concentrations and distribution of VOCs over the remainder of the site resemble those from recent prior sampling events.

#### 3.2 SURFACE WATER

Results from the Fall 2002 canal and quarry monitoring event are presented in Table 5.

#### 3.2.1 Quarry

For samples collected from the Dolomite products quarry seep (QS-4) and discharge outfall (QO-2) the following chloropyridines and VOCs were detected:

	LOCATION	QO-2	QS-4
PARAMETER <sup>1</sup>	_	-	
2,6-Dichloropyridine		1J	57
2-Chloropyridine		2 J	290
3-Chloropyridine		ND	ND
p-Fluoroanaline		ND	ND
Toluene		ND	ND

#### Notes:

- J = The positive result reported for this analyte is a quantitative estimate (below sample quantitation limit, but above method detection limit).
- = Concentrations reported in micrograms per liter (µg/L)

The total reported chloropyridine concentrations are below historical averages.

#### 3.2.2 Barge Canal

A trace level of 2-chloropyridine (0.5J  $\mu$ g/L) was detected in QO-2S1, the only sample collected from the Erie Barge Canal. A low-level detection of acetone, a common laboratory contaminant, was also reported in this sample.

#### 4.0 EXTRACTION SYSTEM PERFORMANCE AND MAINTENANCE

Table 6 is a summary of the system flow measurements for the seven extraction wells from June 29 through December 27, 2002. The total volume pumped during the sixmonth period is approximately 6.1 million gallons. Maintenance activities during the period included pump repairs and/or replacements in wells PW-12 and BR-9, and meter repairs/replacements at wells BR-6A, PW-11, and PW-12. In addition, the discharge line from well BR-6A was found to be clogged with black precipitate in December. A temporary discharge line has been hooked up until the line can be permanently replaced. The yield of pumping well PW10 has declined steadily over its operating life. This mass removal well will be evaluated in the Spring of 2003 to determine if well rehabilitation efforts are needed to attempt to improve yield.

Substantial contaminant mass removal was observed during the period. Table 7 provides a calculation of mass removal rates since the previous groundwater monitoring event (i.e., from June through November 2002). Arch estimates that approximately 200 pounds of target VOCs and 530 pounds of chloropyridine compounds were removed by the groundwater extraction system and treated by the plant's activated carbon adsorption units over that time period.

#### 5.0 OTHER ISSUES

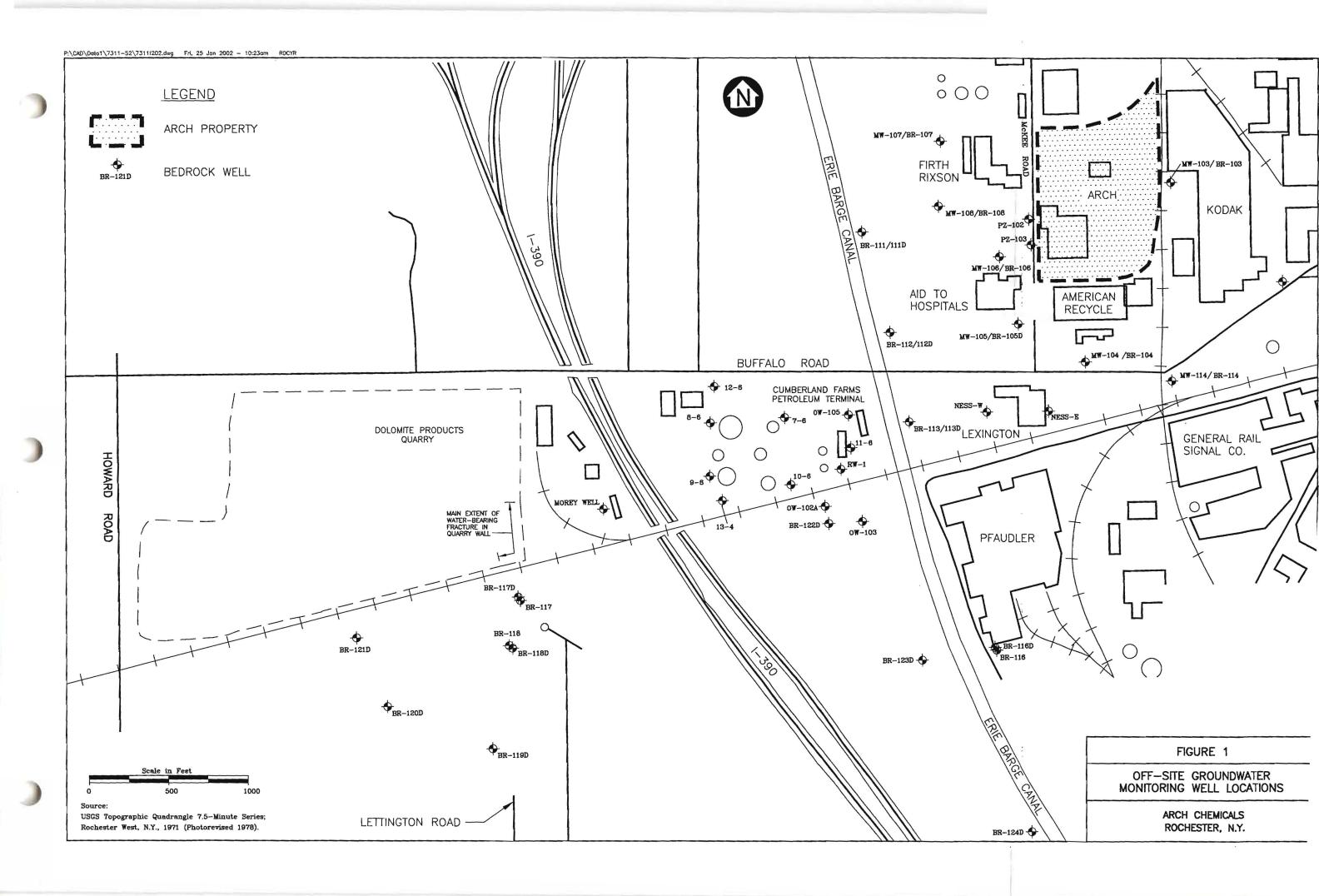
Arch Chemicals expects to sign a new Administrative Order on Consent in the near future that will establish requirements for additional remedial measures at the site. These measures will include a new bedrock extraction well along the western plant property boundary and an overburden groundwater interceptor trench in the southeast corner of the plant that are expected to improve groundwater capture in those areas of the site. In addition, an off-site extraction well will be installed near the southeast corner of the Dolomite Products quarry to capture low levels of chloropyridines currently discharging from a seepage zone in the quarry wall. These and other new remedial measures are documented in the site Record of Decision, which was finalized on March 29, 2002.

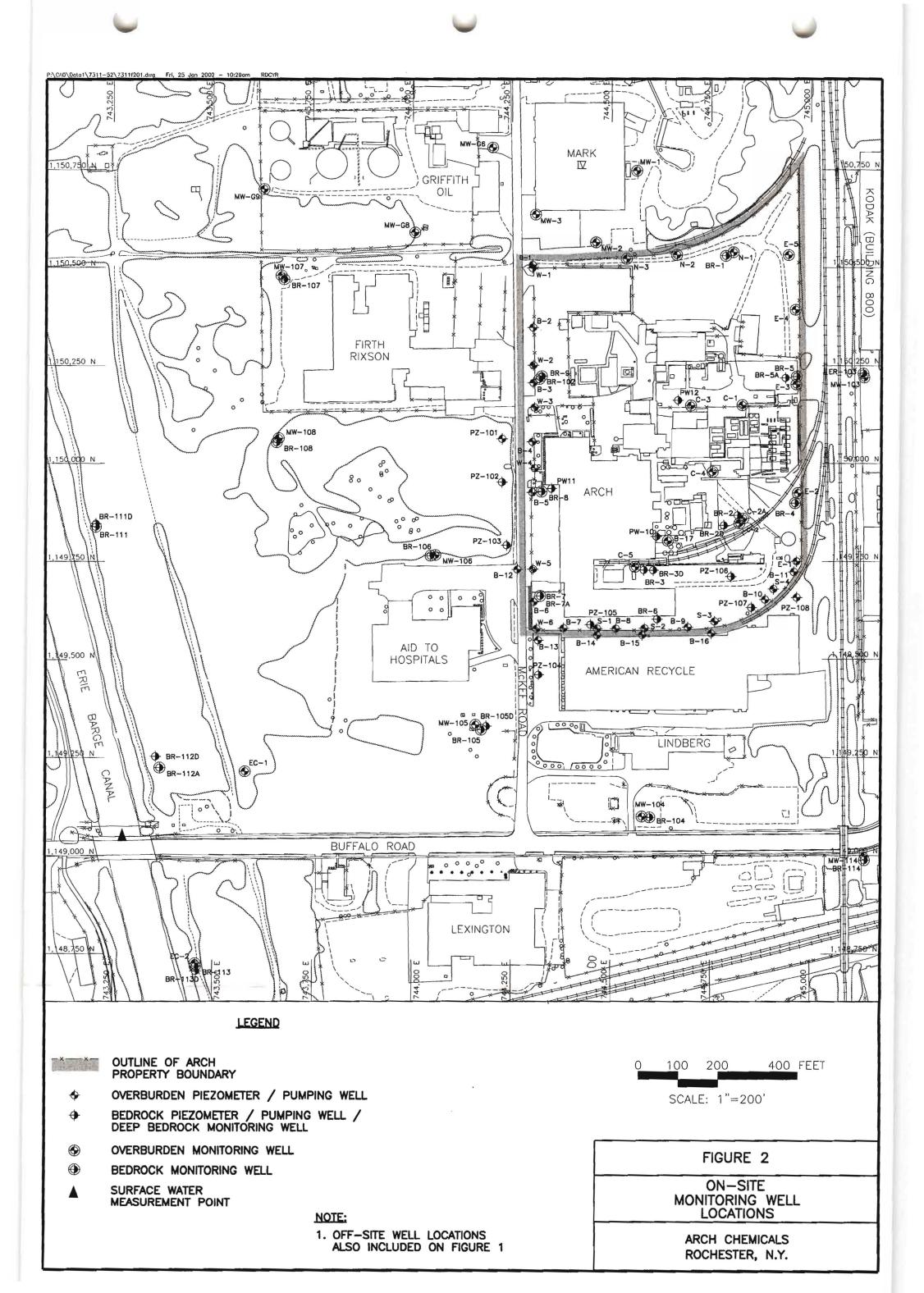
Monitoring well MW-16 located on the former General Circuits facility east of the Arch plant continues to exhibit low levels of chloropyridines. Arch will continue monitoring this well on an annual basis.

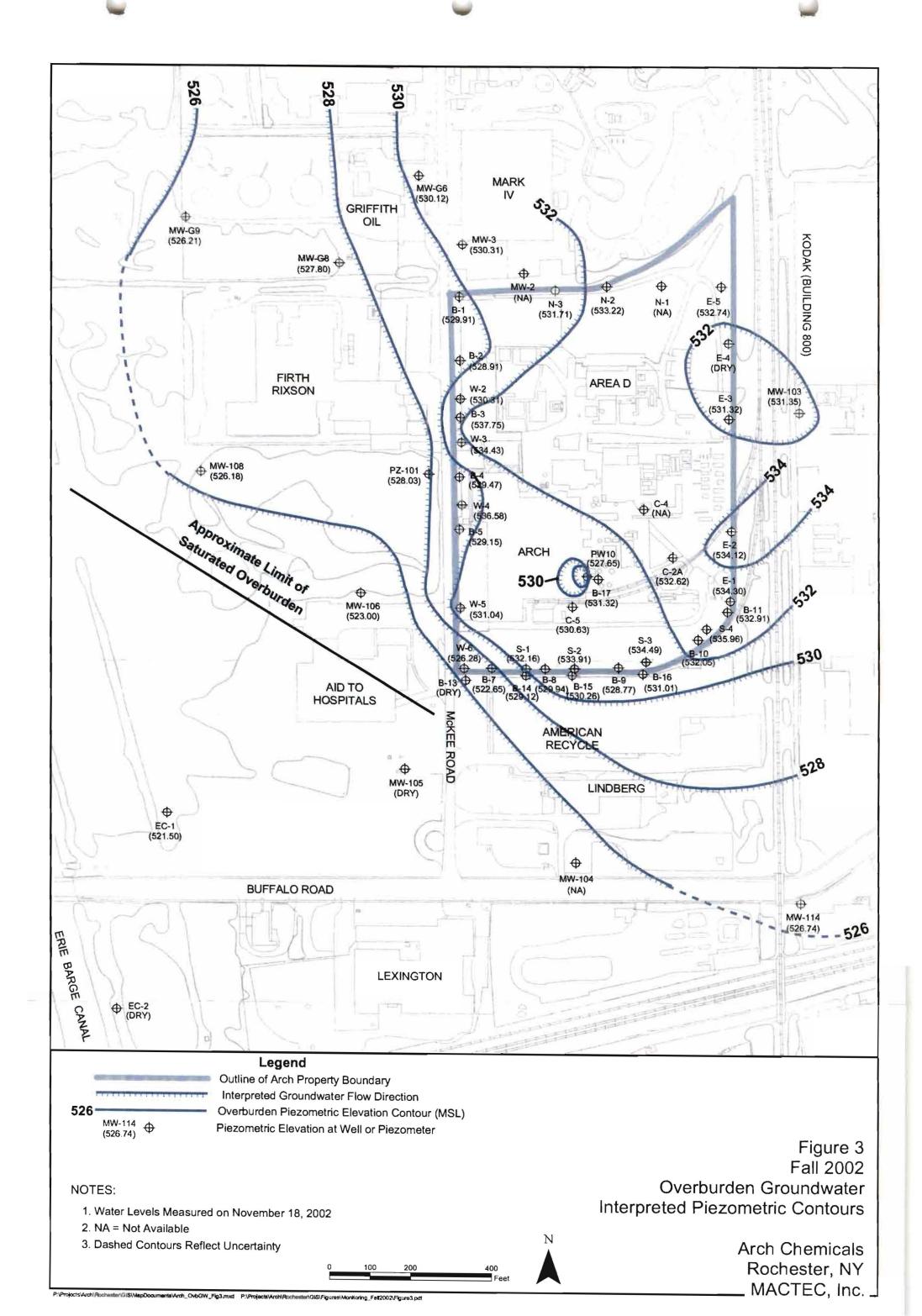
#### 6.0 NEXT MONITORING EVENT

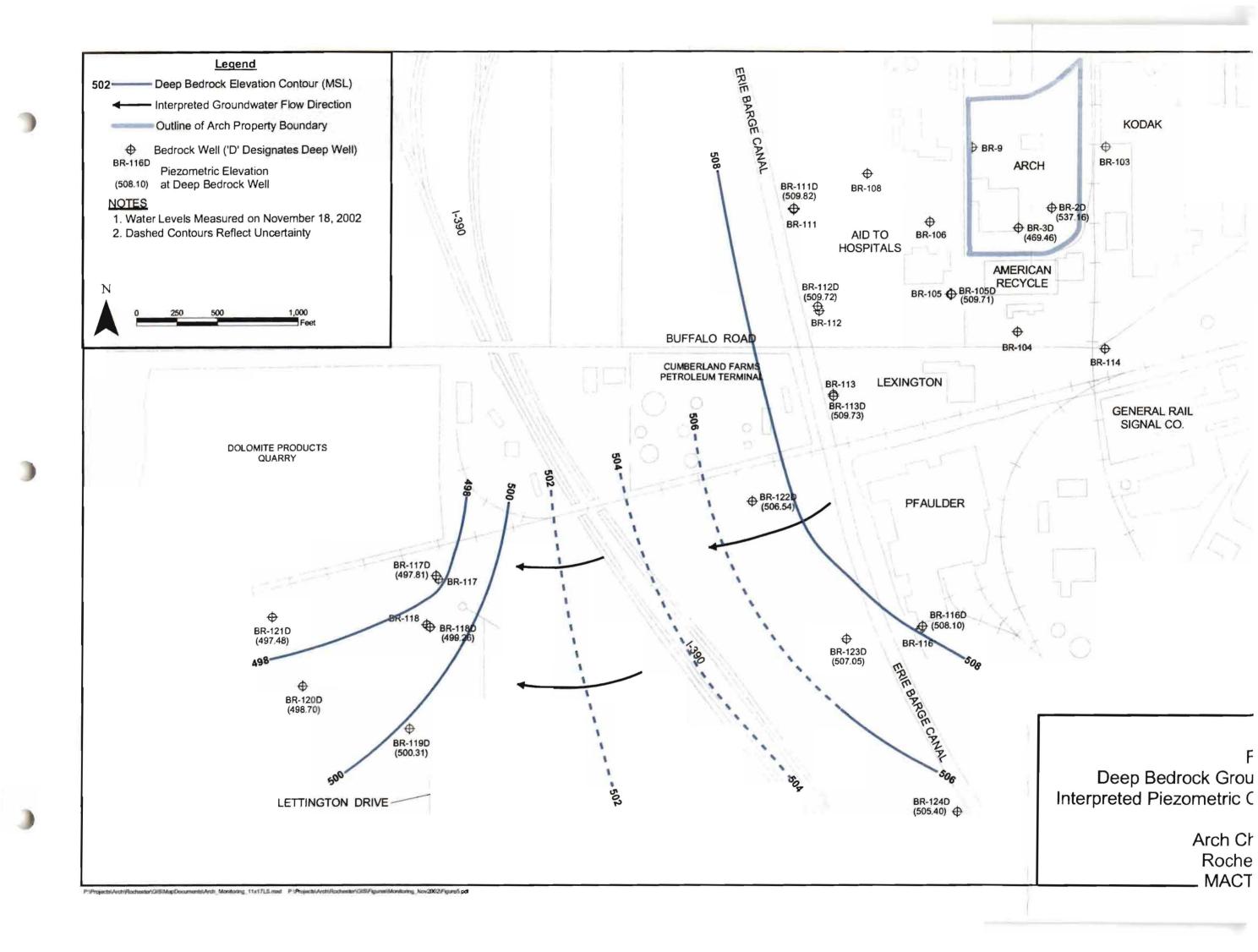
The next monitoring event will occur in May 2003 and will include groundwater, surface water, and seep sampling.

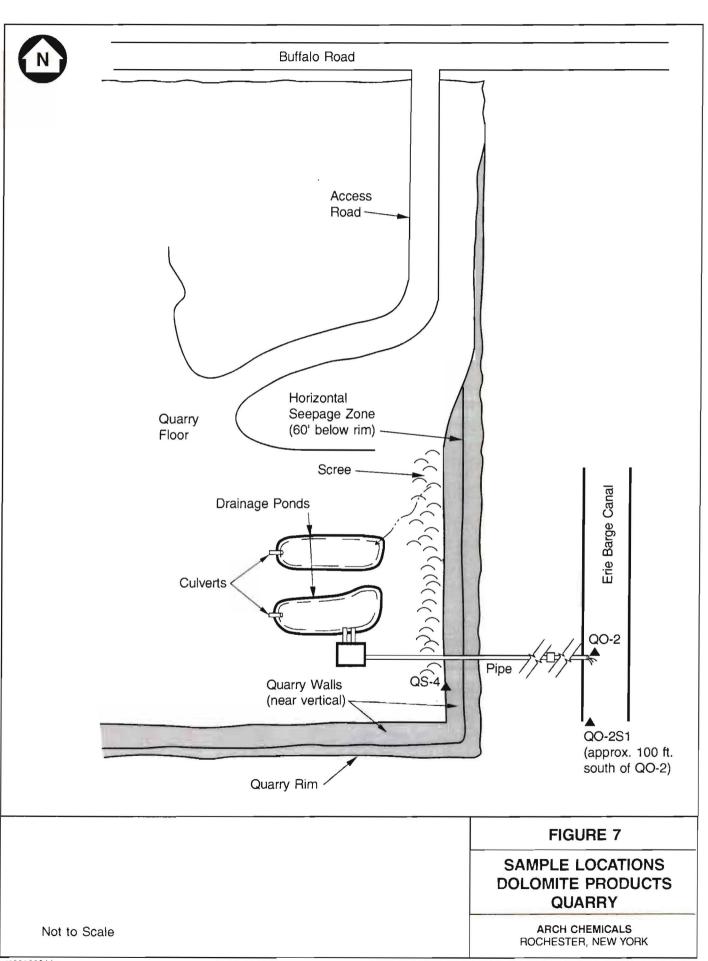
Table 8 shows the current monitoring program for the Arch Rochester site.

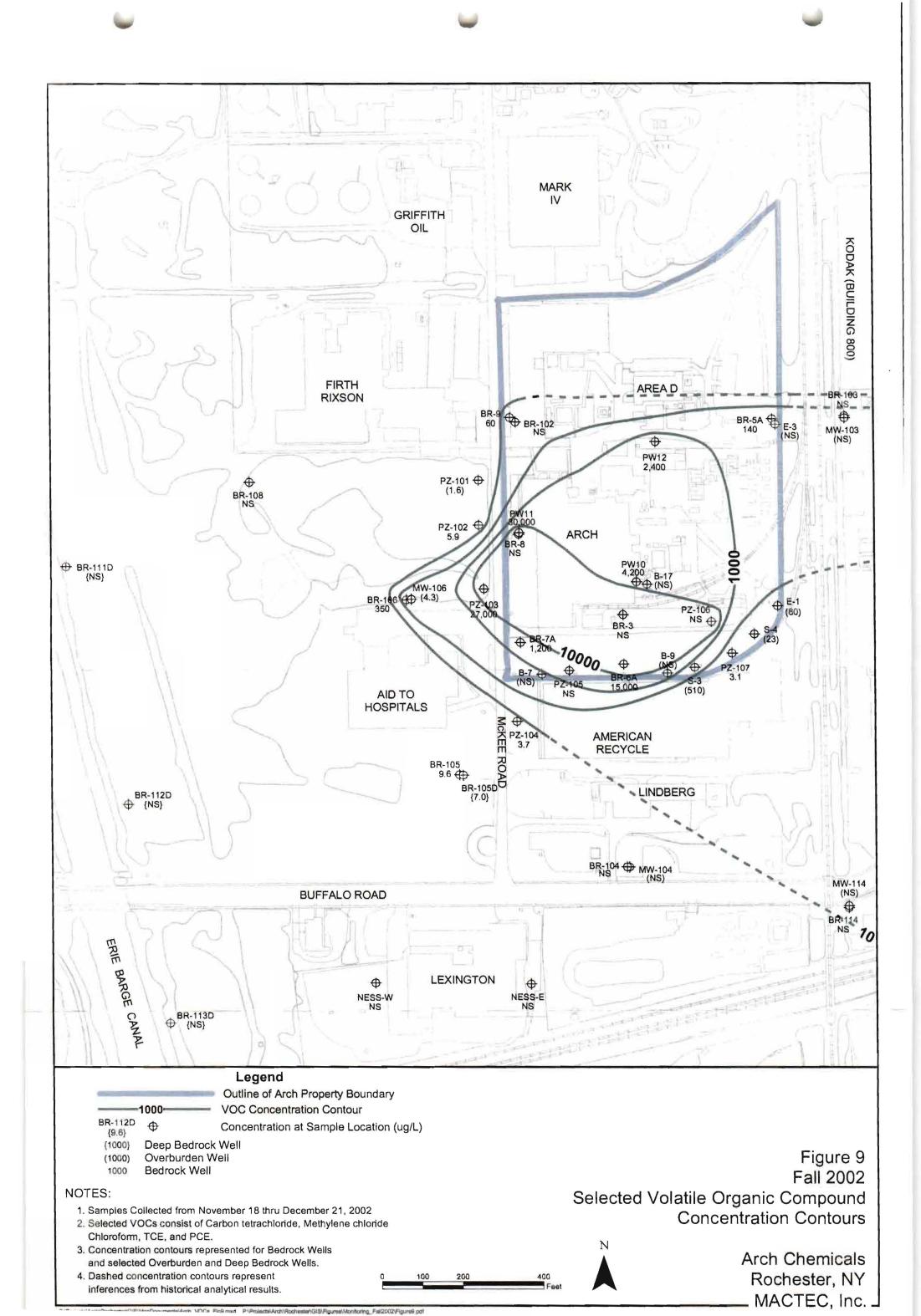


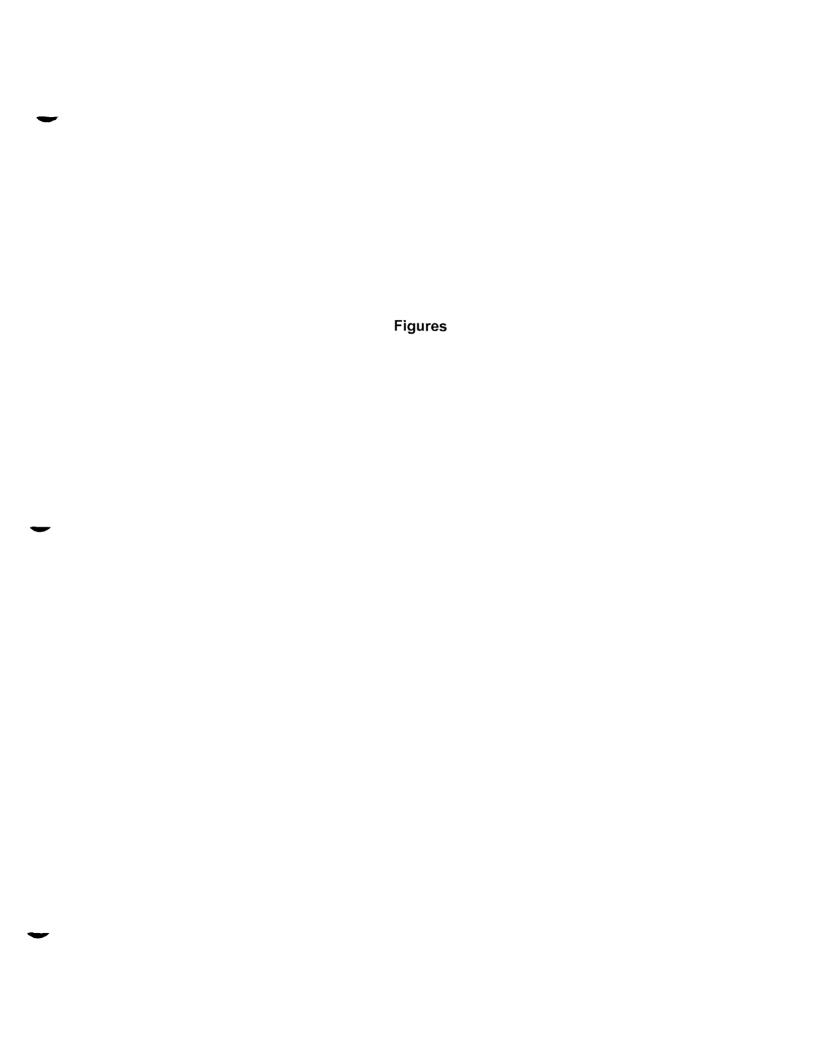


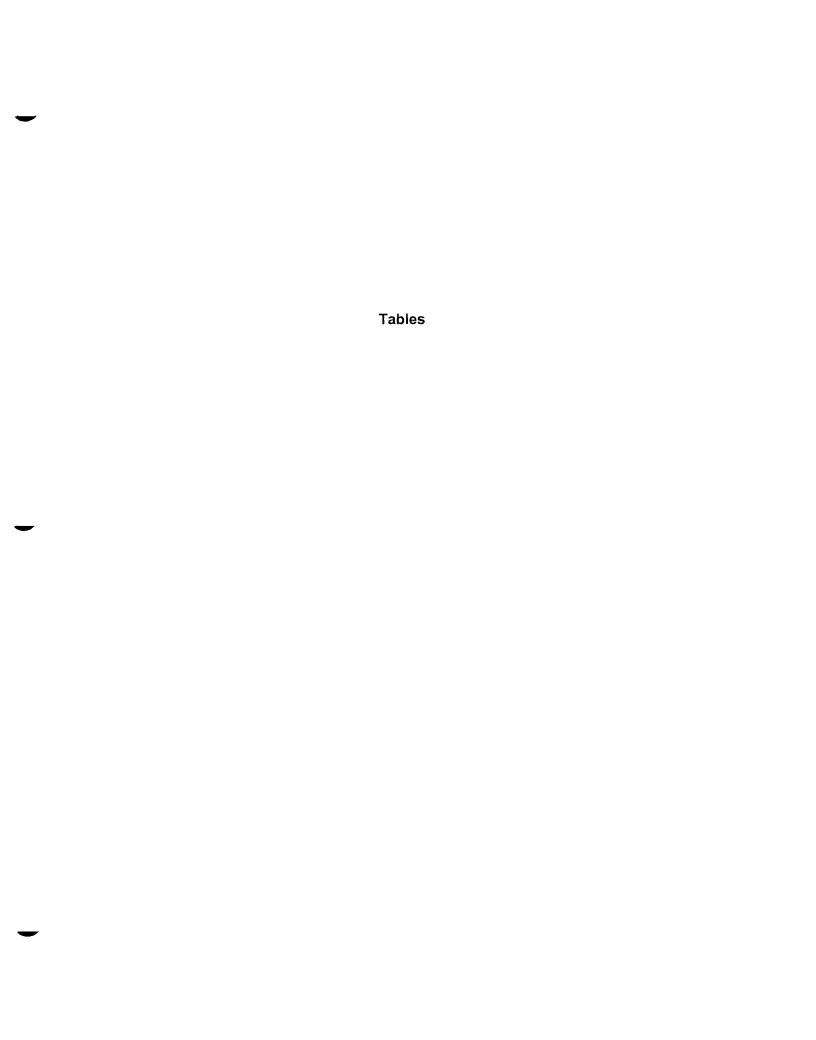












## TABLE 1 FALL 2002 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

## ARCH CHEMICALS, INC ROCHESTER, NEW YORK

			ANALYSIS	PYRIDINES	VOCs <sup>2</sup>
SITE / AREA	WELL / POINT	DATE	QC TYPE		
AID TO HOSPITALS	BR-106	11/21/02	Sample	Х	Х
	MW-106	11/21/02	Sample	Х	X
	PZ-101	11/19/02	Sample	Х	X
	PZ-102	11/19/02	Sample	Х	Х
	PZ-103	11/19/02	Sample	X	X
AMERICAN RECYCLE MANUF.	PZ-104	11/20/02		Х	X
(58 MCKEE ROAD)			Sample		
ARCH ROCHESTER	BR-5A	11/20/02		Х	X
			Sample		
	BR-6A	11/20/02	Sample	X	X
	BR-7A	11/20/02	Sample	X	X
	BR-9	11/20/02	Sample	X	X
	E-1	11/19/02	Sample	Х	X
	PW10	11/20/02	Sample	X	X
	PW11		Sample	X	X
	PW12		Sample	Х	X
	PZ-107		Sample	X	X
	S-3	11/19/02		X	X
	S-4	11/19/02	Sample	Х	X
DOLOMITE PRODUCTS, INC.	QS-4	11/18/02	Sample	Х	X
ERIE BARGE CANAL	QO-2	11/18/02	Sample	Х	X
	QO-2S1	11/18/02	Sample	Х	Х
FORMER GENERAL CIRCUITS	MW-16		Sample	Х	
RG & E RIGHT OF WAY	BR-105		Sample	X	Х
	BR-105D	11/21/02	Sample	X	X

#### Notes:

<sup>1)</sup> Pyridines analysis by USEPA SW-846 Method 8270C.

<sup>2)</sup> VOCs analysis by USEPA SW-846 Method 8260B.

# TABLE 2 FALL 2002 GROUNDWATER MONITORING RESULTS CHLOROPYRIDINES

## ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	BR-105	BR-105D	BR-106	BR-5A	BR-6A	BR-7A	BR-9	E-1	MW-106	MW-16
SAMPLE DATE:	11/21/02	11/21/02	11/21/02	11/20/02	11/20/02	11/20/02	11/20/02	11/19/02	11/21/02	11/21/02
QC TYPE:	N	N	N	2	N	N	Ν	N	N	N
BY SW-846 Method 8270C (µg/L)	_									
2,6-Dichloropyridine	130	54 J	670	140	2400	1500	40	25000	2200	15
2-Chloropyridine	1300	1600	4100	900	20000	6200	250	18000	9800	330
3-Chloropyridine	100 U	100 U	500 U	12	2000 U	1000 U	1 J	460 J	500 U	10 U
4-Chloropyridine	100 U	100 U	500 U	10 U	1300 J	1000 U	10 U	2000 U	500 U	10 U
p-Fluoroaniline	100 U	48 J	230 J	53	2000 U	1000 U	9 J	2000 U	260 J	14
Pyridine	250 U	250 U	1200 U	10 J	2200 J	2500 U	24 U	5000 U	1200 U	24 U

#### Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

# TABLE 2 FALL 2002 GROUNDWATER MONITORING RESULTS CHLOROPYRIDINES

## ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION:	PW10	PW11	PW12	PZ-101	PZ-102	PZ-103	PZ-104	PZ-107	S-3	S-4
SAMPLE DATE:	11/20/02	11/20/02	11/20/02	11/19/02	11/19/02	11/19/02	11/20/02	11/19/02	11/19/02	11/19/02
QC TYPE:	N	N	N	2	N	N	N	N	N	N
BY SW-846 Method 8270C (µg/L)								Ï		
2,6-Dichloropyridine	2000	130	2400	37 J	500	2600	460 J	490	1900	180
2-Chloropyridine	16000	740	12000	630	3000	7400	6000	1500	5800	17 J
3-Chloropyridine	340 J	4 J	110	50 U	200 U	1000 U	500 U	94 J	500 U	100 U
4-Chloropyridine	500 U	50 U	100 U	50 U	200 U	1000 U	500 U	100 U	500 U	100 U
p-Fluoroaniline	500 U	32 J	94 J	32 J	120 J	1000 U	220 J	100 U	500 U	100 U
Pyridine	1800	120 U	340	120 U	500 U	2500 U	1200 U	250 U	1200 U	250 U

#### Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

## TABLE 3 FALL 2002 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

## ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

L	OCATION:	BR-105	BR-105D	BR-106	BR-5A	BR-6A	BR-7A	BR-9	E-1	MW-106	PW10	PW11
SAME	LE DATE:	11/21/02	11/21/02	11/21/02	11/20/02	11/20/02	11/20/02	11/20/02	11/19/02	11/21/02	11/20/02	11/20/02
	QC TYPE:	N	N	N	N	N	N_	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS							_					
BY SW-846 Method 8260/5ML (μg/L)											_	
1,1,1-Trichloroethane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
1,1,2,2-Tetrachloroethane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U_
1,1,2-Trichloroethane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
1,1-Dichloroethane		1.9 J	6.1	10 U	5 U	400 U	50 U	17 J	50 U	20 U	100 U	8.5 J
1,1-Dichloroethene		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
1,2-Dichloroethane		5 U_	5 U	10 U_	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
1,2-Dichloroethene (total)		48	7.9	10 U	18	400 U	50 U	570	22 J	4.5 J	74 J	100
1,2-Dichloropropane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
2-Butanone		10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
2-Hexanone	<u> </u>	10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
4-Methyl-2-pentanone	_	10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
Acetone		25 U	25 U	50 U	25 U	2000 U	250 U	120 U	250 U	100 U	500 U	50 U
Benzene		2.6 J	8.4	25	18	400 U	35 J	120	50 U	81	22 J	28
Bromodichloromethane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	3 J
Bromoform		5 U	5 U	10 U	5 U	320 J	50 U	25 U	50 U	20 U	100	10 U
Bromomethane		10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
Carbon disulfide		5 U	2.8 J	10 U	5 U	1300	50 U_	25 U	50 U	15 J	160	3.4 J
Carbon tetrachloride		5 U	5 U	10 U	5 U	5700	50 U	25 U	50 U	20 U	740	10 U
Chlorobenzene		4.4 J	5 U	160	29	93 J	350	18 J	27 J	640	120	160
Chloroethane		10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	4 J
Chloroform		5 U	7	300	54	8200	1100	34	57	4.3 J	3000	30000
Chloromethane		10 U	29	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
cis-1,3-Dichloropropene		5 U	5 U	10 U	5 U	400 U	50 U_	25 U	50 U	20 U	100 U	10 U
Dibromochloromethane		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
Ethylbenzene		5 U	5 U	10 U	1.1 J	400 U	50 U	17 J	50 U	20 U	100 U	3.5 J
Methylene chloride		5 U	5 U	51	42	700	120	21 J	13 J	20 U	250	310
Styrene		5 U	5 U	10 U	5 U	400 U	50 U	25 U	50 U	20 U	100 U	10 U
Tetrachioroethene		1.3 J	5 U	10 U	5 U	250 J	50 U	25 U	10 J	_20 U	250	10 U
Toluene		5 U	5 U	3.5 J	19	160 J	28 J	25 U	50 U	13 J	46 J	6.2 J
Total Xylenes		15 U	1.7 J	30 U	5.2 J	1200 U	150 U	75 U	150 U	60 U	300 U	30 U
trans-1,3-Dichloropropene		5 <u>U</u>	5 U	10 U	5 U	400 U	50 U	25 U	50 ับ	20 U	100 ป	10 U
Trichloroethene		1.3 J	5 U	10 U	43	400 U	50 U	5 J	50 U	20 U	100 U	3.8 J
Vinyl acetate		10 U	10 U	20 U	10 U	800 U	100 U	50 U	100 U	40 U	200 U	20 U
Vinyl chloride		25	5 U	10 U	12	400 U	50 U	390	13 J	20 U	37 J	130

#### Notes:

- U = Compound not detected; value represents sample quantitation limit.
- J = Estimated value.

## TABLE 3 FALL 2002 GROUNDWATER MONITORING RESULTS VOLATILE ORGANIC COMPOUNDS

## ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

LOCATION	PW12	PZ-101	PZ-102	PZ-103	PZ-104	PZ-107	S-3	S-4
SAMPLE DATE	11/20/02	11/19/02	11/19/02	11/19/02	11/20/02	11/19/02	11/19/02	11/19/02
QC TYPE	N	N	N	N	N	N	N	N
VOLATILE ORGANIC COMPOUNDS					,			
BY SW-846 Method 8260/5ML (μg/L)	-							
1,1,1-Trichloroethane	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
1,1,2,2-Tetrachloroethane	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
1,1,2-Trichloroethane	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
1,1-Dichloroethane	10 J	5 U	10 U	50 U	5 U	5 U	25 U	100 U
1,1-Dichloroethene	50 U	5 U	10 U	50 U	_ 5 U	_ 5 U	25 U	100 U
1,2-Dichloroethane	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
1,2-Dichloroethene (total)	230	5 U	10 U	10 J	_ 5 U	3.8 J	79	100 U
1,2-Dichloropropane	50 U	5 U	10 U	50 U	5 U_	5 U	25 U	100 U
2-Butanone	100 U	10 U	20 U	100 U	10 U	10 U	50 U	200 U
2-Hexanone	100 U	10 U	20 U_	100 U	10 U	10 U	50 U	200 U
4-Methyl-2-pentanone	100 U	10 U	20 U	100 U	10 U	_ 10 U	50 U	200 U
Acetone	250 U	25 U	50 U	88 J	25 U	25 U	120 U	500 U
Benzene	58	11	41	69	4.5 J	2.3 J	14 J	100 U
Bromodichloromethane	50 U	_ 5 U	10 U	50 น	5 U	5 U	25 U	100 U
Bromoform	28 J	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Bromomethane	100 U	10 U	20 U	100 U	10 U	10 U	50 U	200 U
Carbon disulfide	130	5 U	2.1 J	19 J	_ 5 U	5 U	25 U	100 U
Carbon tetrachloride	760	5 U	10 U	50 U	5 U	5 U	140	100 U
Chlorobenzene	200	77	350	1500	7.2	1.7 J	47	100 U
Chloroethane	100 U	10 U	20 U	100 U	10 U	10 U	50 U	200 U
Chloroform	1500	1.6 J	5.9 J	23000	3.7 J	1.5 J	360	23 J
Chloromethane	100 U	10 U	20 U	100 U	10 U	10 U	50 U	200 U
cis-1,3-Dichloropropene	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Dibromochloromethane	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Ethylbenzene	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Methylene chloride	150	5 U	10 U	4100	5 U	5 U	25 U	100 U
Styrene	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Tetrachloroethene	26 J	5 U	10 U	50 U	5 U	5 U	12 J	100 U
Toluene	34 J	2.6 J	10 U	110	5 U	5 U	8.6 J	100 U
Total Xylenes	150 U	15 U	30 U	150 U	15 U	15 U	75 U	300 U
trans-1,3-Dichloropropene	50 U	5 U	10 U	50 U	5 U	5 U	25 U	100 U
Trichloroethene	50 U	5 U	10 U	50 U	5 U	1.6 J	25 U	100 U
Vinyl acetate	100 U	10 U	20 U	100 U	10 U	10 U	50 U	200 U
Vinyl chloride	160	5 U	10 U	50 U	5 U	3.3 J	37	100 U

#### Notes:

- U = Compound not detected; value represents sample quantitation limit.
- J = Estimated value.

#### TABLE 4

#### COMPARISON OF FALL 2002 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

## ARCH ROCHESTER SEMI-ANNUAL GROUNDWATER MONITORING REPORT - FALL 2002

WELL	S	ELECTED CHL	OROPYRIDINES		SELECTED VOCs					
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2002 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2002 RESULT		
ON-SITE WELLS/LOCAT	TIONS					_				
B-17	7	28,000,000	200,000	NS	7	345,000	77,000	NS		
B-7	5	6,100	2,400	NS	5	91	69	NS		
B-9	5	4,000	1,700	NS	5	30	320	NS		
BR-3	6	6,500,000	160,000	NS	6	600,000	450,000	NS		
BR-5A	9	1,700	160	1,100	9	9,400	56	140		
BR-6A	9	93,000	33,000	26,000	9	26,000	8,300	15,000		
BR-7A	9	510,000	23,000	7,700	9	3,000	500	1,200		
BR-8	8	57,000	10,000	NS	8	6,900	0.5	NS		
BR-9	7	720	510	300	7	160	86	60		
E-1	6	25,000	12,000	43,000	6	5,300	670	80		
E-3	8	600	39	NS	8	12,000	180	NS		
PW10 _	_ 6	160,000	89,000	20,000	6	120,000	54,000	4,200		
PW11	4	27,000	8,400	910	4	1,300	390	30,000		
PW12	8	11,000	2,800	15,000	8	120,000	7,300	2,400		
PZ-105	6	190,000	35,000	NS	5	9,700	830	NS		
PZ-106	7	120,000	28,000	NS	7	1,100,000	550,000	NS		
PZ-107	8	11,000	2,000	2,100	8	12,000	830	3.1		
S-3	5	9,500	6,400	7,700	5	2,500	800	510		
S-4	5	3,200	1,400	200	5	870	180	23		

# TABLE 4 COMPARISON OF FALL 2002 CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

## ARCH ROCHESTER SEMI-ANNUAL GROUNDWATER MONITORING REPORT - FALL 2002

WELL	S	ELECTED CHL	OROPYRIDINES		SELECTED VOCs					
	# EVENTS IN	HISTORIC	5-YEAR MEAN	NOV-2002	# EVENTS IN	HISTORIC	5-YEAR MEAN	NOV-2002		
	PRIOR 5 YRS	MAXIMUM		RESULT	PRIOR 5 YRS	MUMIXAM		RESULT		
		_								
OFF-SITE WELLS/LOCATIONS										
BR-103	7	400	29	NS	5	1	1	NS		
BR-104	8	3,100	11	NS	5	9		NS		
BR-105	9	24,000	2,500	1,400	7	310		2.6		
BR-105D	9	10,000	2,400	1,700	7	230		7		
BR-106	9	21,000	11,000	5,000	7	6,300	2.1	350		
BR-108	8	1,700	11	NS	4	NDND	NDND	NS		
BR-112D	8	310		NS	3	4	0.43	NS		
BR-113D	8	490	91	NS	0	3	NS	NS		
BR-114	8	510	210	NS	6	5	0.0	NS		
BR-116	6	12	ND	NS	1	84	6	NS		
BR-116D	7	710	160	NS	2	120	ND	NS		
BR-117D	6	80	27	NS	1	1.9	ND	NS		
BR-118D	6	330	160	NS	1	6.6	3	NS		
BR-122D	7	650	160	NS	3	ND	ND	NS		
BR-123D	7	860	430	NS	3	4	1.3	NS		
MW-103	6	82	18	NS	5	ND	150	NS		
MW-104	6	180	15	NS	4	1	ND	NS		
MW-106	7	130,000	17,000	12,000	7	89	0.5	4.3		
MW-114	8	18	1.1	NS	6	19	11	NS		
MW-16	_ 1	180	180	360	0	NS	NS	NS		
NESS-E	7	5,000	530	NS	5	700	ND	NS		
NESS-W	7	2,100	260	NS	5	89	0.22	NS		

#### TABLE 4

#### **COMPARISON OF FALL 2002**

#### CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

#### **ARCH ROCHESTER** SEMI-ANNUAL GROUNDWATER MONITORING REPORT - FALL 2002

WELL	S	ELECTED CHL	OROPYRIDINES		SELECTED VOCs					
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2002 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2002 RESULT		
OFF-SITE WELLS/LOC	 ATIONS						<u></u>			
PZ-101	7	27,000	1,900	700	5	ND	ND	1.6		
PZ-102	7	58,000	8,800	3,600	5	10,000	ND	5.9		
PZ-103	7	73,000	32,000	10,000	5	4,900	ND	27,000		
PZ-104	6	9,100	4,000	6,700	5	40	ND	3.7		
QO-2	19	380	42	3	7	ND	ND	ND		
QO-2S1	18	27	1.5	0.5	2	ND	ND	ND		
QS-4	19	3,400	750	347	7	ND	ND	ND		

#### Note:

- 1) Number of samples and mean reflect 5-year sampling period from August 1997 through May 2002. Historic maximum based on all available results from March 1990 through May 2002
- 2) Chloropyridines represented by: 2-Chloropyridine, 2,6-Dichloropyridine, and 3-Chloropyridine, 4-Chloropyridine, p-Fluoroaniline, and Pyridine.
- 3) Selected VOCs represented by Carbon Tetrachloride, Chloroform, Methylene Chloride, Tetrachloroethene, and Trichloroethene.
- 4) Bold and shade November 2002 exceeds 5-year mean.
- 5) NA = Not analyzed or not applicable
  - ND = Not detected
- \* = PW10 and PW11 were first sampled in January 1999 and May 2000, respectively.

## TABLE 5 FALL 2002 CANAL/QUARRY MONITORING RESULTS

## ARCH CHEMICAL, INC. ROCHESTER, NEW YORK

DATE VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L) 1,1,1-Trichloroethane	11/18/2002 N		11/18/2002		11/18/2002
BY SW-846 Method 8260/5ML (µg/L) 1,1,1-Trichloroethane	N	N	N.		
1,1,1-Trichloroethane		1.4	N	N	NN
	5	U	5	Ū	5 U
1,1,2,2-Tetrachloroethane	5	U	5	U	5 U
1,1,2-Trichloroethane	5	U	5	U	5 U
1,1-Dichloroethane	5	U	5	U	5 U
1,1-Dichloroethene		U	5	U	5 U
1,2-Dichforoethane	5	C	5	U	5 Ú
1,2-Dichloroethene (total)	5	U	5	U	5 U
1,2-Dichloropropane	5	U	5	U	5 U
2-Butanone	10	U	10	U	10 U
2-Hexanone	10	U	10	U	10 U
4-Methyl-2-pentanone	10	U	10	Ū	10 U
Acetone	25	U	5	J	25 U
Benzene	5	c	5	U	5 U
Bromodichloromethane	5	U	5	U	5 U
Bromoform	5	U	5	U	5 U
Bromomethane	10	U	10	U	10 U
Carbon disulfide	5	U	5	U	5 U
Carbon tetrachloride	5	U	5	U	5 U
Chlorobenzene	5	U	5	Ū	5 Ú
Chloroethane	10	Ü	10	U	10 U
Chloroform	5	U	5	U	5 U
Chloromethane	10	U	10	U	10 U
cis-1,3-Dichloropropene	5	U	5	U	5 U
Dibromochloromethane	5	Ū	5	U	5 U
Ethylbenzene	5	U	5	U	5 U
Methylene chloride	5	U	5	U	5 U
Styrene	5	U	5	U	5 U
Tetrachloroethene	5	U	5	U	5 Ü
Toluene	5	U	5	U	5 U
Total Xylenes	15	Ū	15	U	15 U
trans-1,3-Dichloropropene	5	U	5	U	5 U
Trichloroethene	5	U	5	U	5 U
Vinyl acetate	10	U	10	U	10 U
Vinyl chloride	5	U	5	U	5 U
SELECTED CHLOROPYRIDINES					
BY SW-846 Method 8270C (µg/L)					
2,6-Dichloropyridine	1	J	10	U	57
2-Chloropyridine	2	J	0.5	J	290
3-Chloropyridine	10	U	10	U	, 38 U
4-Chloropyridine	10	Ū	10	U	38 U
p-Fluoroaniline	10	U	10	U	38 U
Pyridine	25	U	24	U	95 U

#### Notes:

U = Compound not detected; value represents sample quantitation limit.

J = Estimated value.

NA = Not analyzed

## TABLE 6 EXTRACTION WELL WEEKLY FLOW MEASUREMENTS - JULY 2002 THROUGH DECEMBER 2002

## ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

Week	BR-5A	BR-6A	BR-7A	BR-9	PW-10	PW-11	PW-12	Tota
Ending	[Gal./Week]	[Gal./Week]	[Gal./Week]	[Gal./Week]	[Gal./Week]	[Gal./Week]	Gal./Week	- Gal.
June								
06/07/02	67,101	28,113	76,893	46,089	49,048	23,218	6,380	296,842
06/14/02	57,567	21,965	71,452	17,829	42,337	23,656	3,340	238,146
06/21/02	73,031	10,876	78,397	74,725	32,733	25,812	6,130	301,704
06/28/02	70,607	23,623	91,773	29,293	9,095	25,698	6,100	256,189
00/20/02	70,007	20,020	31,770	20,200	0,000	25,000	Total [Gal.]	1,092,881
							rotal [Gal.]	1,002,00
July					<del></del>			<del></del>
07/05/02	63,305	12,146	92,827	6,636	4,874	27,246	4,820	211,854
07/12/02	50,622	15,345	91,484	481	4,144	26,311	2,090	190,477
07/19/02	43,972	15,894	92,977	205	9,812	36,291	8,506	207,657
07/26/02	36,290	28,333	91,232	286	14,623	25,814	3,340	199,918
01120102	30,230	20,000	31,202	200	14,020	20,014	Total [Gal.]	809,906
							10121 [04.1]	
August		<del></del>						
08/02/02	25,220	34,348	93,752	1,954	13,697	26,079	3,720	198,770
08/09/02	38,824	31,889	85,430	273	19,079	24,718	5,750	205,963
08/16/02	37,635	25,169	84,744	275	18,198	25,819	5,420	197,260
08/23/02	38,203	23,467	83,130	820	16,847	26,148	5,250	193,865
08/30/02	34,556	16,779	75,281	980	19,236	24,482	4,830	176,144
00/30/02	04,000	10,773	10,201	300	13,200	24,402	Total [Gal.]	972,002
							rotal (Gal.)	972,002
September				=				
09/06/02	34,848	21,453	85,343	630	19,816	21,825	4,480	188,395
09/13/02	31,519	21,096	83,162	418	19,032	25,211	3,500	183,938
09/20/02	29,714	24,239	75,144	38,466	4,650	16,694	1,800	190,707
09/27/02	30,151	19,056	73,966	116,745	16,296	18,387	160	274,76
03/2//02	50,151	19,000	10,500	110,745	10,230	10,507	Total [Gal.]	837,80
							rotai (Gai.j	100,100
October		_						
10/04/02	58,332	17,731	62,610	148,527	15,192	9,822	310	312,524
10/11/02	43,471	15,303	63,220	127,275	11,560	13,637	10	274,476
10/18/02	32,085	12,506	74,533	<b>7</b> 7,769	25,546	29,304	1	251,744
10/25/02	43,825	20,986	69,524	64,215	7,425	98,581	1,990	306,545
10,20,02	40,025	20,000	00,024	04,210	1,720	00,001	Total [Gal.]	1,145,289
							rotal (Cal.)	1,140,200
November				<del></del>				
11/01/02	43,337	14,443	7 <b>1</b> ,017	83,779	703	98,645	1,290	313,214
11/08/02	39,528	15,508	76,923	74,350	4,908	92,123	1,440	304,780
11/15/02	52,832	13,607	86,178	78,280	3,921	100,461	1,140	336,419
11/22/02	48,371	4,860	70,010	68,095	3,029	82,044	140	276,549
11/29/02	59,438	2,742	65,249	77,167	4,258	93,885	510	303,249
	00,100	_,, ,_	33,210	.,,	,,200	55,555	Total [Gal.]	1,534,211
December	00.000	<b>-</b>	<b>-4</b>	20.212	4-			
12/06/02	60,226	5,145	71,879	60,016	15	67,550	720	265,55
12/13/02	41,217	15,765	48,690	50,341	47,586	68,620	608	272,827
12/20/02	34,957	0	41,685	51,251	23,233	79,442	1,264	231,832
12/27/02	43,280	0	36,601	49,374	2,453	76,187	1,178	209,073
							Total [Gal.]	979,283

Total 6 Mo.

Removal 1,124,946 488,735 2,001,001 1,058,395 385,800 948,025 81,937 6,088,840

#### TABLE 7

#### MASS REMOVAL SUMMARY PERIOD: 6/1/02 - 11/29/02

## ARCH ROCHESTER FALL 2002 GROUNDWATER MONITORING REPORT

Well	Total Vol. Pumped	Avg. VOC	Avg. PYR.	VOCs Removed	PYR. Removed
	(gallons)	Conc. (ppm)	Conc. (ppm)	(pounds)	(pounds)
BR-5A	1,184,000	0.11	0.65	1.1	6.4
BR-6A	491,000	11.2	33	46	135
BR-7A	2,066,000	0.63	18	11	310
BR-9	1,136,000	0.04	0.34	0.4	3.2
PW-10	82,000	3	54	2	37
PW-11	1,042,000	15	1.6	130.2	14
PW-12	390,000	2.7	8.7	9	28.3
Totals:	6,391,000			199.1	533.4

Note: VOC and pyridine concentrations used in this table are an average of the analytical results from the Spring 2002 and Fall 2002 sampling events for each well

#### TABLE 8 2003 SAMPLING SCHEDULE ARCH CHEMICALS, INC. ROCHESTER, NEW YORK

						_			003		_
MONITORING PR	OGRAM					SPR	RING	F#	<b>LL</b>	то	TAL
			-			Pyridines	VOCs	Pyridines	vocs	Pyridines	vocs
	Well	zone	area	Frequency/Parameters	Purpose	\ \f{x}	8	Py	8	P.	_8
OFF-SITE	MW-103	ОВ	KODAK ĒAST	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
MONITORING	BR-103	BR		annual monitoring, VOCs & PYR	trend monitoring	1	1			1	] 1
	MW-104	OB		annual monitoring, PYR	trend monitoring	1	1			1	0
I	BR-104	BR		annual monitoring, PYR	trend monitoring	1	1	l . I		1	0
I	BR-105	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
ļ	BR-105D	BR deep	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	11	1	1	1	2	2
l	MW-106	ОВ	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
ļ	BR-106	BR	AID-HOSP	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
l	BR-108	BR	AID-HOSP	annual monitoring, PYR	trend monitoring	1 1	1			1	0
ļ	BR-112D	BR deep	NYSDOT	annual monitoring, PYR	trend monitoring	1 1	1			1	0
ļ	BR-113D MW-114	BR deep OB	NYSDOT JACKSON	annual monitoring, PYR	trend monitoring trend monitoring		1			1	1
ļ	BR-114	BR	JACKSON	annual monitoring, VOCs & PYR annual monitoring, VOCs & PYR	trend monitoring	1 1					'
ļ	BR-116	BR		annual monitoring, PYR	trend monitoring		( ' '			Ιί	اٰ
	BR-116D	BR deep	PFAUDLER	annual monitoring, PYR	trend monitoring	1	1			Ιί	0
	BR-117D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	1	1	ł		1	١٥
	BR-118D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring	Ιi				1	ا ا
	BR-122D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring					1	٥
	BR-123D	BR deep	QUARRY	annual monitoring, PYR	trend monitoring		1			1	ا
	NESS-E	BR deep	NESS	annual monitoring, PYR	trend monitoring	1 1	1			1	0
	NESS-W	BR deep	NESS	annual monitoring, PYR	trend monitoring					1	ا ۵
	PZ-101	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	PZ-102	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1 '	1	1	2	2
	PZ-103	BR	McKee Rd	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	PZ-104	BR	ALH	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
	MW-16	BR	Gen'l Circuits	annual monitoring, PYR	trend monitoring			1		1	0
ON-SITE	PZ-107	BR	ON-SITE	semi-annual monitoring, VOCs & PYR	perimeter sentinel/trend monitoring	1	1	1	1	2	2
MONITORING	PZ-106	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	PZ-105	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-3	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1 '			1	1
	BR-8	BR	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1			1	1
	BR-9	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	BR-5A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	BR-6A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1	1	1	1	2	2
	BR-7A	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	11	1	1	1	2	2
	B-17	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1	1	l l		1	1
	B-7	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1 1	1 1			1	1
	B-9	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring	1 1	1			1	1
	S-3 S-4	OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1	1 1		1	2	2
	E-1	OB OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench	1 1	1 1	1 1	1 1	2	2
	E-3	OB OB	ON-SITE	semi-annual monitoring, VOCs & PYR	continue until replaced by trench		1 1	1	1	2	2
	1	OB	ON-SITE	annual monitoring, VOCs & PYR	trend monitoring		1 1			1	1
	PW10	pumping well	ON-SITE	semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring	1 1	1 1	1 1	1	2	2
	PW11 PW12	pumping well	ON-SITE ON-SITE	semi-annual monitoring, VOCs & PYR semi-annual monitoring, VOCs & PYR	mass removal/trend monitoring mass removal/trend monitoring	1 1	1	1 1	1	2	2
QUARRY/CANAL		pumping well	QUARRY			_		┝╬╢	-		2
MONITORING	QS-4 QO-2	quarry seep quarry outfall		semi-annual monitoring, VOCs & PYR	trend monitoring	1	1	[	1	2 :	2
DNING LING	QO-2 QO-2S1	canal at outfall	CAN <b>A</b> L CANAL	semi-annual monitoring, VOCs & PYR semi-annual monitoring, VOCs & PYR	trend monitoring surface water monitoring	1 1	1	1	1	2	2
	20-201	Canar at Outiall	CANAL	Scin-amual monitoring, VOOS & FTR	Johnson Water monitoring	[ ]	'		'		2
TOTAL SAMPI	(50			<u> </u>		47	34	23	22	70	5

# Appendix A Groundwater Field Sampling Data Sheets

Date: 12/06/2002 Time: 09:20:14 Sampling Try Table
HARDING LAWSON ASSOCIATES
NOVEMBER 2002
RI SAMPLING/ROCHESTER NY FACILITY

Page:

Rept: ANO82

Sample	Water Level	Water	Water	Bottom	Field Measur	ements	рΗ	Spec.				
Point	Date Time	Level (ft)*	Elevation (ft)**	Of Well (ft)*	Date	Time	(STD) (Units)	Cond. (umhos)	Temp (°C)	Turb. (NTV)	Other Field Measure	ments
BR-105	11/21/2002 1143	25.02	N/A	44.60	11/21/2002	1210	7.06	1813	12.8	3.47	EH(mv)= -152	DO(ppm)≈ .87
_	Comments: CLEAR									4.40	5114	20//7
BR-105D	11/21/2002 1052 Comments: CLEAR	26.20	N/A	79.50	11/21/2002	1125	7.04	14960	12.0	1.10	EH(mv)= -295	DO(ppm)= .47
BR-106	11/21/2002 1256	26.13	N/A	43.22	11/21/2002	1330	6.83	2653	11.7	12.34	EH(mv)= -245	DO(ppm)≈ .47
	Comments: CLEAR											
BR-5A	11/20/2002 1250	12.30	N/A	N/A	11/20/2002	1255	7.29	1768	14.5	7.72	EH(mv)= -81	
	Comments: CLEAR											
BR-6A	11/20/2002 1200	30.65	N/A	N/A	11/20/2002	1205	8.61	4436	16.3	61.30	EH(mv)= -95	
	Comments: AMBER (	CLEAR										
BR-7A	11/20/2002 1220	28.38	N/A	N/A	11/20/2002	1225	7.41	2732	16.4	163.50	EH(mv)= -150	
	Comments: SL.YURE	BID										
BR-9	11/20/2002 1315	34.15	N/A	N/A	11/20/2002	1320	7.33	2193	15.9	161.20	EH(mv)= -33	
	Comments: TURBID	GREY										
E-1	11/19/2002 1020	0.53	N/A	9.75	11/19/2002	1045	8.11	14550	8.7	24.92	EH(m∨)= -208	00(ppm)= .90
	Comments: SL.TURE	BID BLACK										
MW-106	11/21/2002 1227	11.90	N/A	19.35	11/20/2002	1255	7.22	3423	13.5	8.84	EH(m∨)= -215	DO(ppm) = .40
	Comments: CLEAR E	BLACK TIN	T									
MW-16	11/21/2002 958	11.99	N/A	34.44	11/21/2002	1035	6.88	4189	17.8	2.53	EH(mv)= -163	DO(ppm)= .84
	Comments: CLEAR											
PW-10	11/20/2002 1235	15.40	N/A	N/A	11/20/2002	1240	9.75	3308	19.9	40.30	EH(mv)= -125	
	Comments: AMBER/C	LEAR										
PW-11	11/20/2002 1340	10.57	N/A	N/A	11/20/2002	1345	7.08	2976	15.0	7.87	EH(m∨)= -19	
	Comments: CLEAR											
PW-12(BR-101)	11/20/2002 1305	10.70	N/A	N/A	11/20/2002	1310	8.65	2740	16.8	109.70	EH(mv) = -31	
	Comments: SL.TURE	IID(PW-12	)									
PZ-101	11/19/2002 1248	14.95	N/A	21.69	11/19/2002	1310	7.15	6026	9.2	4.83	EH(mv)= 5	DO(ppm) = .87
	Comments: CLEAR											
PZ-102	11/19/2002 1320	15.25	N/A	32.00	11/19/2002	1340	7.24	4860	9.9	1.08	EH(mv)= -173	DO(ppm) = .90
	Comments: CLEAR										•	
PZ-103	11/19/2002 1352	12.46	N/A	32.52	11/19/2002	1415	7.20	4675	11.8	1.03	EH(m∨)≈ -231	DO(ppm)= .95
	Comments: CLEAR											

SG - Specific Gravity

<sup>\*</sup> From Top of Riser

EH - Redox

<sup>\*\*</sup> Elevation Above Sea Level

DO - Dissolved Oxygen

Time: 09:20:14

HARDING LAWSON ASSOCIATES NOVEMBER 2002

RI SAMPLING/ROCHESTER NY FACILITY

Page: Rept: AN0827

Sample	Water Level	Water	Water	Bottom	Field Measur	rements	рΗ	Spec.				
Point Date	Date Time	Level (ft)*	Elevation (ft)**	Of Well (ft)*	Date	Time	(STD) (Units)	Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurer	nents
PZ-104	11/20/2002 1037	14.99	N/A	23.93	11/20/2002	1100	6.83	1887	15.7	1.26	EH(mv)= -125	DO(ppm)= .94
	Comments: CLEAR										T	201
PZ-107	11/19/2002 1135	6.74	N/A	27.90	11/19/2002	1200	7.17	3290	10.4	2.99	EH(mv)= -100	DO(ppm)= .47
	Comments: CLEAR											
QO-2	11/18/2002 850	0.00	N/A	N/A	11/18/2002	852	7.13	1848	8.0	N/A	EH(mv)= 121	
	Comments: CLEAR											
QO-2S1	11/18/2002 900	0.00	N/A	N/A	11/18/2002	905	7.24	695	8.1	N/A	EH(mv)= 94	
	Comments: CLEAR											
QS-4	11/18/2002 1015	0.00	N/A	N/A	11/18/2002	1020	6.95	1606	8.8	N/A	EH(mv)= -16	
	Comments: CLEAR											
s-3	11/19/2002 1210	2.75	N/A	13.38	11/19/2002	1235	7.41	2372	11.2	3.97	EH(mv)= -43	DO(ppm) = .93
	Comments: CLEAR											
S-4	11/19/2002 1056	0.70	N/A	13.05	11/19/2002	1120	7.40	346	9.0	15.06	EH(mv)= -38	DO(ppm) = .93

Comments: CLEAR

SG - Specific Gravity

EH - Redox

<sup>\*</sup> From Top of Riser

<sup>\*\*</sup> Elevation Above Sea Level

DO - Dissolved Oxygen

Date: 12/06 J2 Time: 09:17:11

# Groundwater A ation Report HARDING LAWSON ASSOC. NOVEMBER 2002

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
	<del></del>					
B-1	11/18/2002		0.00	7.84	N/A	
B-10	11/18/2002	907	0.00	6.75	N/A	
B-11	11/18/2002	905	0.00	3.09	N/A	DDI
B-13	11/18/2002		0.00	N/A	N/A	DRY
B-14	11/18/2002		0.00	8.83	N/A	
B-15	11/18/2002		0.00	5.03	N/A	
B-16	11/18/2002		0.00	5.20	N/A	
B-17	11/18/2002	850	0.00	7.42	N/A	
B-2	11/18/2002	1014	0.00	10.11	N/A	
B-3	11/18/2002	1004	0.00	4.06	N/A	
B-4	11/18/2002	1120	0.00	13.40	N/A	
B-5	11/18/2002		0.00	11.06	N/A	
B-7	11/18/2002	940	0.00	18.46	N/A	
B-8	11/18/2002	936	0.00	8.94	N/A	
B-9	11/18/2002	932	0.00	6.78	N/A	
BR-1	11/18/2002	822	0.00	7.22	N/A	
BR-102	11/18/2002		0.00	22.10	N/A	
BR-103	11/18/2002	803	0.00	3.08	N/A	
BR-104	11/18/2002	747	0.00	9.45	N/A	
BR-105	11/18/2002		0.00	24.60	N/A	
BR-105D	11/18/2002		0.00	26.78	N/A	
BR-106	11/18/2002		0.00	24.93	N/A	
BR-107	11/18/2002	0	0.00	N/A	N/A	DESTROYED
BR-108	11/18/2002		0.00	28.93	N/A	
BR-111	11/18/2002		0.00	30.55	N/A	
BR-111D	11/18/2002		0.00	30.52	N/A	
BR-112A	11/18/2002		0.00	34.83	N/A	
BR-112D	11/18/2002		0.00	38.19	N/A	
BR-113	11/18/2002		0.00	33.28	N/A	
BR-113D	11/18/2002		0.00	33.20	N/A	
BR-114	11/18/2002	756	0.00	14.63	N/A	
BR-116	11/18/2002	822	0.00	30.64	N/A	
BR-116D	11/18/2002	820	0.00	37.12	N/A	
BR-110 <i>D</i> BR-117	11/18/2002	945	0.00	27.20	N/A	
DIC_TT \	11/10/2002	240	0.00	27.20	11/17	

Date: 12/06 02 Time: 09:17.11

#### Groundwater ation Report HARDING LA.JN ASSOC. NOVEMBER 2002

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
BR-117D	11/18/2002	947	0.00	49.35	N/A	
BR-118	11/18/2002	954	0.00	29.62	N/A	
BR-118D	11/18/2002	955	0.00	48.67	N/A	
BR-119D	11/18/2002	1000	0.00	66.75	N/A	
BR-120D	11/18/2002	935	0.00	58.73	N/A	
BR-121D	11/18/2002	940	0.00	57.31	N/A	
BR-122D	11/18/2002	838	0.00	45.80	N/A	
BR-123D	11/18/2002	835	0.00	46.57	N/A	
BR-124D	11/18/2002	830	0.00	32.05	N/A	
BR-2	11/18/2002	840	0.00	N/A		DRY
BR-2A	11/18/2002	837	0.00	8.41	N/A	
BR-2D	11/18/2002	841	0.00	0.10	N/A	
BR-3	11/18/2002	916	0.00	10.94	N/A	
BR-3D	11/18/2002	917	0.00	68.21	N/A	
BR-4	11/18/2002	846	0.00	6.40	N/A	
BR-5	11/18/2002	816	0.00	5.21	N/A	
BR-5A	11/18/2002	815	0.00	5.08	N/A	0.00GPM = FLOW RATE
BR-6	11/18/2002	935	0.00	12.08	N/A	
BR-6A	11/18/2002	927	0.00	10.74	N/A	0.00GPM = FLOW RATE
BR-7	11/18/2002	1101	0.00	20.85	N/A	
BR-7A	11/18/2002	1103	0.00	28.33		FLOW RATE METER BROKEN
BR-8	11/18/2002	1127	0.00	10.67	N/A	
BR-9	11/18/2002	1006	0.00	28.02	N/A	7.62 GPM FLOW RATE
C-1	11/18/2002	830	0.00	0.93	N/A	
C-2A	11/18/2002	838	0.00	7.04	N/A	
C-3	11/18/2002	833	0.00	N/A	N/A	BROKE AT GROUND SURFACE AND BURIED UNDER PALLETS
C-4	11/18/2002	835	0.00	N/A	N/A	BUILDING IN THIS AREA/WELL NO LONGER EXISTS
C-5	11/18/2002	915	0.00	9.00	N/A	
E-1	11/18/2002	850	0.00	0.71	N/A	FLOODED
E-2	11/18/2002	845	0.00	4.20	N/A	
E-3	11/18/2002	817	0.00	5.27	N/A	
E-4	11/18/2002	812	0.00	N/A	N/A	DRY
E~5	11/18/2002		0.00	6.57	N/A	
EC-1	11/18/2002	1050	0.00	18.49	N/A	

Date: 12/06 02 Time: 09:17:11 Groundwater ( ation Report HARDING LAWSON ASSOC. NOVEMBER 2002

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
EC-2	11/18/2002	1030	0.00	N/A	N/A	DRY AT 12.75
ERIE CANAL	11/18/2002		0.00	34.85	N/A	
MW-103	11/18/2002	800	0.00	1.90	N/A	
MW-104	11/18/2002	745	0.00	N/A	N/A	
MW-105	11/18/2002	1110	0.00	N/A	N/A	DRY AT 19.01
MW-106	11/18/2002	1115	0.00	12.44	N/A	
MW-107	11/18/2002	0	0.00	N/A	N/A	DESTROYED
MW-108	11/18/2002	1041	0.00	14.51	N/A	
MW-114	11/18/2002	<b>7</b> 55	0.00	12.95	N/A	
MW-16	11/18/2002	810	0.00	12.23	N/A	
MW-2	11/18/2002	1022	0.00	N/A	N/A	BURIED
MW-3	11/18/2002	1020	0.00	5.58	N/A	
MW-G6	11/18/2002	1118	0.00	4.53	N/A	
MW-G7	11/18/2002	1120	0.00	4.20	N/A	
MW-G8	11/18/2002	1121	0.00	6.45	N/A	
MW-G9	11/18/2002	1124	0.00	10.39	N/A	
N-1	11/18/2002	823	0.00	N/A	N/A	DAMAGED CASING/BAILER STUCK IN WELL
N-2	11/18/2002		0.00	4.11	N/A	
N-3	11/18/2002		0.00	5.67	N/A	
NESS-E	11/18/2002		0.00	40.10	N/A	
NESS-W	11/18/2002		0.00	33.90	N/A	
PW-10	11/18/2002		0.00	11.11	N/A	
PW-11	11/18/2002	1125	0.00	10.27	N/A	
PW-12 (BR-101)	11/18/2002		0.00	10.70	N/A	1.93 GPM
PZ-101	11/18/2002	1052	0.00	14.92	N/A	
PZ-102	11/18/2002		0.00	14.86	N/A	
PZ-103	11/18/2002	1056	0.00	12.49	N/A	
PZ-104	11/18/2002		0.00	15.28	N/A	
PZ-105	11/18/2002	930	0.00	12.24	N/A	
PZ-106	11/18/2002		0.00	9.03	N/A	
PZ-107	11/18/2002		0.00	6.75	N/A	
PZ-108	11/18/2002		0.00	N/A	N/A	DESTROYED
S-1	11/18/2002		0.00	5.33	N/A	
S-2	11/18/2002	926	0.00	3.24	N/A	

Date: 12/06 )2 Time: 09:17:11

#### Groundwater H ation Report HARDING LAWSON ASSOC. NOVEMBER 2002

Sample Point	Date	Time	Casing Elevation	Depth to Water	GW Elv.	Comments
S-3	11/18/2002	920	0.00	2.70	N/A	
S-4	11/18/2002	851	0.00	0.82	N/A	
W-1	11/18/2002	1015	0.00	N/A	N/A	UNABLE TO OBTAIN MEASUREMENT/OBSTRUCTION
W-2	11/18/2002	1007	0.00	10.01	N/A	
W-3	11/18/2002	1030	0.00	8.21	N/A	
W-4	11/18/2002	1122	0.00	4.52	N/A	
W-5	11/18/2002	1100	0.00	7.49	N/A	
W-6	11/18/2002	1107	0.00	12.71	N/A	

Facility: ARCH CHEMICAL	Sample Point ID: BA-165
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 21 -02 1 #45	Cond of seal: () Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-21 well 1145	Date / Time Completed: 11-21-cメ /2/0
Surf. Meas. Pt: ( ) Prot. Casing Riser	Riser Diameter, Inches: 4.0
Initial Water Level, Feet: 25.02	Elevation, G/W MSL:
Well Total Depth, Feet: 44.60	Method of Well Purge: <u>Staroan Com</u>
One (1) Riser Volume, Gal:	Dedicated: Y / 🕥
Total Volume Purged, Gal: 2.5	Purged To Dryness Y / N
Purge Observations:	Start Cken Finish Clean

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)				pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other の人/	Other
1150	200	25.02		12.9	7.08	1887	8.51	-171	1.79
1155				12.7	7,63	18 14	5.76	- 151	1.32
1200				12.7	7.05	1817	3.63	-15-1	1.06
1205		1		12.7	7.06	1813	3.51	-151	,95
1210				12.8	7.06	18/3	3.47	-152	. 87

SAMPILU At 1210/42/11-21-02

PAGE 1 OF 2

AMPLING	INFORMATI	ON:		POINT I	D	
Date/Time	11	-02 1		Water Le	vel @ Sampling	, Feet:
Method of S	ampling:	<u> </u>			_ Dedicated:	Y/N
Multi-phased	d/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy
SAMPLING	DATA:					
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )
NSTRUME	NT CHECK D	ATA:				
Turbidity Se Solutions:		NTU std.	=NTU		NTU std. =	_NTU
			7 40			0.0 std. =
			146.9 412 - 26.2			<u>ゲル</u> umhos/cm=
	INFORMATIO				_	
Weather co	nditions @ tim	e of sampling:				
Sample Cha	aracteristics:				·	
COMMENT	TS AND OBSE	ERVATIONS:				
:						
			<del></del>			
I certify that	at sampling pro	ocedures were	in accordance	with all app	olicable EPA, St	ate and Site-Specific
Date:	111 107	Ву:			Company:	570
			PAGE 2 OF	- 2		

Facility: ARCH CHEMICAL	Sample Point ID: BR-1050
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time // - 2/ -02 / 1052	Cond of seal: (Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) / /
PURGE INFORMATION:	
Date / Time Initiated: 11-21-04 1100	Date / Time Completed: 11-21-04 1125
Surf. Meas. Pt: () Prot. Casing Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 26.20	Elevation. G/W MSL:
Well Total Depth, Feet: 79.50	Method of Well Purge: BURDETA PORP
One (1) Riser Volume, Gal:	Dedicated: Y / 🐠
Total Volume Purged, Gal: 2.0	Purged To Dryness Y / (Ñ)
Purge Observations:	Start Clean Finish Clean
DUDOC DATA: ('6       -	

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ON	Other
1105	150	28.10		12.5	6.89	14,390	1.74	-270	,97
1110	\	28.10		12.2	7.03	14,740	1.39	-291	,63
1115		1		12.1	7.01	14,930	1,2/	-295	-57
1120				12.0	7.68	14,950	1.16	-296	.51
1125		V		12.0	7.04	14,960	1.10	- 295	.47

SAMBLES At 1125/11-21-02

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT ID				
Date/Time		02 1		Water Le	vel @ Sampling,	, Feet:		
Method of S	ampling:				_Dedicated:	Y / N		
Multi-phased	d/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (	Other ( )		
		<u> </u>	<u> </u>		<u> </u>			
INSTRUME	NT CHECK DA	ATA:						
Turbidity Se		NTU std.	=NTU		NTU std. =	_NTU		
	4-218E					0.0 std. =		
						ゲル umhos/cm=		
Solutions:	146.9 - 3	76-1 , 1	412 - 26-2	ζ	_			
GENERAL	INFORMATIO	N:						
Weather cor	nditions @ time	e of sampling:						
Sample Cha	racteristics:							
COMMENT	S AND OBSE	RVATIONS:						
						-		
	_					<u></u>		
		·						
		<del></del>			<u></u>			
I certify tha protocals.	t sampling pro	cedures were	in accordance	with all app	olicable EPA, Sta	ate and Site-Specific		
Date:	111102	Ву:			Company:	570		

Facility: ARCH CHEMICAL	Sample Point ID: BR-106
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 21 -02 1 1256	Cond of seal: () Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose
If prot.casing; depth to riser below:	(
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm;
PURGE INFORMATION:	
Date / Time Initiated: 11-21-04 / 310	Date / Time Completed: 11-21-04 /330
Surf. Meas. Pt: ( ) Prot. Casing	Riser Diameter, Inches:
Initial Water Level, Feet: 26.13	Elevation. G/W MSL:
Well Total Depth, Feet: 43. 22	Method of Well Purge: BLAPAIN FUMP
One (1) Riser Volume, Gal:	Dedicated: Y (N)
Total Volume Purged, Gal: 2, 0	Purged To Dryness Y / 🕦
Purge Observations:	Start Clear Finish Clear
PURGE DATA: (if applicable)	
Time   Purge Rate   Cumulative   Temp.	pH Conduct Turb. Other Other

Time		e Rate m/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other
1315	266	26.15 H		11.7	6.84	2680	12,84	-234	.57
1320				11,6	6.83	2645	11,34	-241	.53
1325				11.6	6.82	2650	12,27	-241	,50
1330				11.7	6.83	2653	12.34	-245	,47
		1							
		1							

SAMPLE At 1330/11-21-02

PAGE 1 OF 2

SAMPLING INFORMATION: POINT ID							
Date/Time	11	92 1		Water Le	, Feet:		
Method of Sa	mpling:	<u> </u>			_Dedicated:	Y/N	
Multi-phased	/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy	
SAMPLING	DATA:		_				
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )	
INSTRUMEN	NT CHECK DA	TA:					
Turbidity Ser			=NTU		NTU std. =	_NTU	
			7 40 10-2			0.0 std. =	
Conductivity Solutions:	Serial #: 146.9 - 2	600750	146.9 412 - 26-2	umhos/cm=	: <i></i>	ゲル umhos/cm=	
GENERAL I	NFORMATIO	N:					
Weather con-	ditions @ time	of sampling:					
Sample Char	acteristics:				<u> </u>		
COMMENTS	S AND OBSE	RVATIONS:					
	<del> </del>						
I certify that protocals.	sampling proc	cedures were i	in accordance v	with all app	licable EPA, St	ate and Site-Specific	
Date:	111 102	By:			Company:	<u></u>	

Fa	Facility: ARCH CHEMICAL					olnt ID:	BR-5A		
Fle	eld Person	inel:	FL, TO	3	Sample M	latrix:	6W		
SA	AMPLING	INFORMATIO	N:				Grab ()C	omposite	
Da	ite/Time	11-20 -0	·2 1/-	250	Water Lev	vel @ Sampling	Feet:	12:30	
Me	ethod of S	ampling:	INSIL	o funt		_Dedicated:	<b>⊘</b> N	640799	
Μι	Date/Time //-20 -02 / 1250  Method of Sampling: INSITU PUMP  Multi-phased/layered: () Yes PNo			b) No	If YES:	( ) light	( ) heavy	0.00	
SA	AMPLING	DATA:							
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (		
	1255	14.5	7.29	1768	7,72				
			, , , , , , , , , , , , , , , , , , ,						
IN	STRUME	NT CHECK DA	ATA:						
	rbidity Se olutions:			= <u>5.0</u> NTU		NTU std. =	_NTU		
<b>p</b> ⊢ pH	l Serial #:	600750	4.0 std.=	7	.0 std.=	1	0.0 std. =		
So	olutions:	4-2188,	7-2140,	10-215	2	<del></del>			
		/ Serial #: 		-			الاركار umhos/cm	=	
			•	//X <u>- 20-</u>		-			
		INFORMATIO			~	o			
		nditions @ time	of sampling:	_					
Sa	imple Cha	racteristics:		Cleur	٥٠٠	OPEN			
C	OMMENT	S AND OBSE	RVATIONS:						
							<u> </u>		
					_				
	certify that otocals.	sampling proc	edures were i	n accordance v	with all app	licable EPA, Sta	te and Site-Spe	cific	
D:	ato-	11 12012002	Rv	11 1.	. <del>7</del>	Company:	576		

	Facility:	ARCH	CHEMILAL		Sample P	oint <b>I</b> D:	BR-61		
	Field Person	nel:	PL. TB		Sample M	atrix:	€ W Grab () Composite		
	SAMPLING	INFORMATIO	N:				Ø Grab ()	Jomposite	
						vel @ Sampling,			
	Method of Sa	ampling:	IN-S	it PUM		_Dedicated:	(V) N	686664.4	
	Muiti-phased	/ layered:	( ) Yes	<b>⋈</b> No	If YES:	( ) light	( ) heavy	1	
	SAMPLING	DATA:						_	
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other ( )		
	1205	16.3	8.61	4436	61.3	- 95			
	INSTRUME	NT CHECK DA	TA:					_	
	Turbidity Ser		<del></del>	= <u>\$.0</u> NTU		ITU std. =	_NTU		
-		600750 4-2188,				1	0.0 std. =		
	Conductivity	•	600750	146.9	umhos/cm=	- :	<u>///2_</u> umhos/ci	n=	
	GENERAL I	INFORMATIO	N:						
	Weather con	ditions @ time	of sampling:	50°	50~				
	Sample Cha	racteristics:		AMBER	clear				
	COMMENT	S AND OBSE	RVATIONS:						
	-			-					
	I certify that protocals.	sampling proc	edures were i	n accordance v	with all appl	licable EPA, Sta	te and Site-Sp	ecific	
	Date:	11 12012002	Bv:	Al Luck	:	Company:	576	, <del>_</del>	

LeachField Form Revision 0 March 15,2002

### **FIELD OBSERVATIONS**

Facility:	ARCH	CHEMICAL		Sample P	oint ID:	BR-7A				
Field Person	nnel:	PL, TD		Sample M	atrix:	GW Grab () Composite				
SAMPLING	INFORMATIO	N:				(K) Grab () C	omposite			
Date/Time	11-20-0	2 1 1	220	Water Lev	el @ Sampling,	, Feet:	28.38			
Method of S	Method of Sampling: In Silv Puml				_Dedicated:	<b>⊘</b> N				
Multi-phased	d/ layered:	( ) Yes	∕∕ No	If YES:	( ) light	( ) heavy				
SAMPLING DATA:										
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (				
1225	•	7.41	2732	163.5						
		•								
INSTRUME	NT CHECK DA	ATA:			·		•			
Solutions:	Turbidity Serial #: 3794 NTU std. = 5.0 NTUNTU std. =NTU									
	4-2188,	-			1	0.0 std. =	<del></del>			
Conductivity		600750	146.9	ımhos/cm=		الماركي umhos/cm	n=			
GENERAL	INFORMATIO	N:								
Weather cor	nditions @ time	of sampling:								
Sample Cha	racteristics:	<u> </u>	ULBIN E	SRey		-				
						if conta				
	KIN Flow									
	7,100	7000								
							_			
	<del></del> -		<u>.                                    </u>		<u></u>					
I certify that protocals.	I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.									
Date:	11 12012002	Bv:	Al La		Company:	STL	_			

Facility:	ARCH	CHEMICAL		Sample P	oint ID:	BR-9		
Field Persor	nnel:	P4, 1B		Sample M	atrix:	6w		
SAMPLING	INFORMATIC	N:				(م) Grab () Co	omposite	
Date/Time	11-20-0	<u>, , , , , , , , , , , , , , , , , , , </u>	315'	Water Lev	vel @ Sampling,	Feet:	34.15	
				Dedicated:		Ø/N	7.62	
					( ) light		4/29928	
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( O人/ )	Other (		
1320	15.9	7.33			-37			
INSTRUME	NT CHECK DA	ATA:			·			
Turbidity Se Solutions:			= <u>\$.0</u> NTU		ITU std. =	_NTU		
			<del></del>		10	0.0 std. =		
	4-2188,				_			
	y Serial #: <u>146.9</u> −					//2_umhos/cm=	<b>-</b>	
	INFORMATIO				_			
				درر				
	nditions @ time aracteristics:		_					
•						<del></del>		
COMMENT	S AND OBSE	RVATIONS:						
						., -		
			<del></del>					
-		<u> </u>						
I certify that protocals.	t sampling proc	cedures were i	n accordance v	with all app	licable EPA, Sta	te and Site-Spec	ific	
•	1/ 1 <del>3</del> 0 150052	Rv.	Al T.	Æ	Company:	571		

Field Personnel: R. Senf, P. Little	Sample Point ID: E-1  Sample Matrix: GW
MONITORTING WELL INSPECTION:	oumple manx.
Date/Time 11 - 19 -02 1 1020	Cond of seal: A Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked 代 Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL:
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-14-021 1025	Date / Time Completed: 11-19-のメールリン
Surf. Meas. Pt: ( ) Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: < 53	Elevation. G/W MSL:
Well Total Depth, Feet: 9.75	Method of Well Purge: Peristic Party
One (1) Riser Volume, Gal:	Dedicated:
Total Volume Purged, Gal: 1.0	Purged To Dryness Y / 🕟
Purge Observations:	Start TURRID / BUILD Finish ST TURBOR BUILD

PURGE DATA: (if applicable)

Time	_	e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other #	Other .
1030	100 nc/n	.53		9.8	7.43	14,450	>200	,97	- 197
1035	j	i		8.9	7.87	14,500	7200	. 95	-200
1040				8.6	8.00	14,550	27.80	012	-210
1045		1		8.7	8.11	14,550	24.92	.90	- 208

SAMPLES AF 1045/11-29-02

PAGE 1 OF 2

SAMPLING	INFORMAT	ION:		POINT ID				
Date/Time	11-	-oz 1		Water Le	vel @ Sampling	g, Feet:		
Method of S	Sampling:			<del>_</del>	_Dedicated:	Y / N		
Multi-phase	d/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )		
NSTRUME	NT CHECK [	DATA:			<u></u>			
	376		= NTH	ا در ۵	NTU eta Ca	ro NITII		
	-nai #; - 13 <b>0</b> 12 -		NIU	<u> </u>	110 Std. = <u>O.</u>	<u>~</u> N+U		
	<del>_</del> _			• • • •	- ! ~1	100-11 10-07		
						10.0 std. = /o-o		
		, 7-21.	,					
						/ゲル umhos/cm=/ゲ/ス		
Solutions:	146.9 -	26-1 1	412 - 26-2	<u> </u>	_			
GENERAL	INFORMATION	ON:						
Weather co	nditions@tim	ne of sampling:						
	_	io or oumpinig.		_				
Sample Cha	aracteristics:	<del></del>	<del>-</del>		<del>-</del>			
COMMENT	TS AND OBS	ERVATIONS:						
			<del></del>	<del></del>		<del></del>		
I certify that protocals.	at sampling pr	ocedu <b>res were</b>	in accordance v	with all app	licable EPA, S	tate and Site-Specific		
Date:	11 1191 03	Հ By։	LIZI	<del></del>	Comno	570		
Jaie.	11 11 (1 C s	<u> </u>	The second		Company			

PAGE 2 OF 2

Facility: ARCH CHEMICAL	Sample Point ID: MW-106
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 21 - 02 1 1227	Cond of seal: ( ) Good ( ) Cracked
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose ( Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm / /
PURGE INFORMATION:	
Date / Time Initiated: 11-2(-out 1230	Date / Time Completed: 11-21-04 1255
Surf. Meas. Pt: ( ) Prot. Casing Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 11.90	Elevation. G/W MSL:
Well Total Depth, Feet: 19.35	Method of Well Purge: BLADOFA PURP
One (1) Riser Volume, Gal:	Dedicated: Y / N
Total Volume Purged, Gal: 2.0	Purged To Dryness Y
Purge Observations:	Start Clara Orana Finish Clara

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other Po
1235	m4/min 260	13.05		138	7.20	3372	13,20	-264	,75
1240				13.8	7.22	3380	11.75	-206	. 69
1245				13.1	7.24	3417	9.76	-215	.54
1250				17,2	7.22	3420	10.20	-215	.46
1255	4	1		13.5	7.22	3423	8.34	-25	, 40

SAMPLES At 1255/11-21-02

PAGE 1 OF 2

SAMPLING	IG INFORMATION: POINT ID						
Date/Time	11	<u>이</u>		Water Le	vel @ Sampling,	Feet:	
Method of Sa	ampling:	· ·			_ Dedicated:	Y/N	
Multi-phased	I/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy	
SAMPLING	DATA:						
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other (	
	_						
INSTRUME	NT CHECK DA	ATA:					
Turbidity Ser	3794 rial #:	NTU std.	=NTU	!	NTU std. =	NTU	
pH Serial #: Solutions:	600750 4-2186,	4.0 std.= フェスパ	7 40 10 - 2	.0 std.= / 5 ಿ	10 _	0.0 std. =	
						//\_umhos/cm=	
Solutions:	146.9 - 2	26-1	412 - 26-2	Σ	_		
GENERAL I	INFORMATIO	N:					
Weather con	iditions @ time	of sampling:					
Sample Cha	racteristics:						
COMMENT	S AND OBSE	RVATIONS:					
<del></del>						-	
•		<del>-</del>					
I certify that protocals.	sampling prod	cedures were i	in accordance	with all app	olicable EPA, Sta	te and Site-Specific	
Date:	111 102	Ву:			Company:	57C	

Facility:	_A	CH C	HEMICAL		Sample	e Point I <u>D:</u>	MW-16				
Field Pers	sonnel:	-	R. Sent, P.L.	++/c	Sample	e Matrix:	SW_				
MONITO	RTING	WELL	NSPECTION:								
Date/Time	- //	- 21	-02 1 1	0958	Cond o	<u>%</u>					
Prot. Casi	ng/rise	r height <u>:</u>			Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose  从Flush Mount						
If prot.cas	ing; de	pth to ri	ser below:			(	) Damaged_				
Gas Meter	r (Calibi	ation/ R	eading):	% Gas:	-1-	- % LEL:_					
Vol. Orga	nic Mete	er (Calib	ration/Reading	):	Volatile	es (ppm:					
PURGE I	NFOR	MATION	l <b>:</b>								
Date / Tim	ne Initia	ted: //	-21-0×1 1010	? ————	Date / Time Completed: 11-21-のメール						
Surf. Mea	s. Pt: ( )	Prot. C	asing `	<b>∦</b> Riser	Riser D	·					
Initial Wa	ter Leve	el, Feet:	11.99		Elevati	on. G/W MSL:	,				
Well Tota	l Depth	Feet:	34.4	<u> </u>	Method of Well Purge: BLADOEX RA						
One (1) R	iser Vol	ume, Ga	al:		_ Dedicated: Y / 🕥						
Total Vol	ume Pu	rged, Ga	al: 2.0		Purged To Dryness Y (N)						
Purge Ob	servati	ons:			Start	Clark	Finish	cleen			
PURGE								oll	<del>1</del> 1		
Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 00		
1015	200	11.99		17.8	6.88	4138	4.14	- 157	1.16		
1020	100			17.8	6.88	4235	2.82	-161	1.03		
1025	1		_	17.8	6.87	4188	2.74	-163	. 90		
1030				17.8	6.88	4187	2.56	-163	.87		
1035		71		17.8	6.88	4189	2.53	- /63	-84		
	<del></del>	<del>-  ~</del>	<del> </del>	<del> </del>	<del></del>	<del>                                     </del>	1	1			

SAMPLES At 1035/11-21-02

PAGE 1 OF 2

SAMPLING IN	ORMATIC	N:		POINT II		
Date/Time		02 1		Water Le	, Feet:	
Method of Samp	ling:				Y/N	
Multi-phased/ la	/ered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy
SAMPLING DA	TA:					
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other (
			<del> </del>	-		
INSTRUMENT	CHECK DA	<u> </u>	<u></u>	<u> </u>	<u> </u>	
Turbidity Serial Solutions:	3794 #:	NTU std.		5.0	NTU std. = <u> </u>	<u>^</u> NTU
	c 75 C	4.0 std.=4	<u>1.0</u> 7.			0.0 std. = <u>/o. o</u>
	rial #: 16.9 - 2	600756	146.9	umhos/cm≃	: 146.9	<u> サル</u> umhos/cm= <u>/4/イ</u>
Weather conditi	ons @ time	of sampling:				
Sample Charact						
COMMENTS A	ND OBSE				_	
	_	_				
				·	<del></del>	
I certify that sa protocals.	mpling proc	cedures were i	n accordance v	with all app	ilicable EPA, Sta	ate and Site-Specific
Date: <u>//</u>	121102	Ву:	DIZ	utt	Company:	570

	Facility:	ARCH	CHEMILAL		Sample Po	oint ID:	Pw-10			
	Field Person	nel:	PL.TB		Sample Matrix:		Fw-lo  6w			
	SAMPLING	INFORMATIO	N:				Ø Grab () C	omposite		
	Date/Time	11-20-0	ء ۱/ء	235	Water Lev	el @ Sampling,	, Feet:	15.46		
	Method of Sa	ampling:	IN-SIZU	PUMP		Dedicated:	Ø1N	DOD 6000		
							( ) heavy			
	SAMPLING	DATA:								
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (			
	1240	19.9		3368	40.3	-125				
	INSTRUME	NT CHECK DA	ΔΤΔ•		•		<u> </u>			
-	INSTRUMENT CHECK DATA:  Turbidity Serial #: 3794 NTU std. = 5.0 NTU NTU std. = NTU  Solutions:  pH Serial #: 600750     4.0 std.=									
	•	racteristics:		<u> </u>	STOOK	001-70				
	COMMENT	S AND OBSE	RVATIONS:				· · · · · · · · · · · · · · · · · · ·			
	I certify that protocals.	sampling proc	edures were in	n accordance v	vith all appl	icable EPA, Sta	te and Site-Spec	cific		
-	Date:	11 12012002	_ Ву:	gl In	<del>~</del>	_ Company:	STL			

Facility:	ARCH	CHEMICAL		Sample P	oint ID:	B. PW-11  6W  (Grab () Composite		
Field Person	inel:	Pl, T	6	Sample Matrix:		_6W		
SAMPLING	INFORMATIO	DN:				(←) Grab () C	omposite	
Date/Time	11-20 -0	2 1 1	1340	Water Lev	vel @ Sampling,	, Feet:	10.57	
Method of Sa	ampling:	Peristell	c fund		_Dedicated:	(Y) N		
Multi-phased	d/ layered:	( ) Yes	Ø No	If YES:	( ) light	( ) heavy		
SAMPLING	DATA:		_				_	
Time	Temp. ( °C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (		
1345	15.0		2976		- 19			
INSTRUME	NT CHECK DA	ATA:					-	
Turbidity Se Solutions:		NTU std.	<del></del>		NTU std. =	_NTU		
► pH Serial #:	600750	_ 4.0 std.=	7	.0 std.=	1	0.0 std. =		
Solutions:	4-2188,	7-2140,	10-215	2	_			
		_			<u></u>	<u> //2_</u> umhos/cn	<b>1</b> =	
	146.9- 6	•	712 - 26-		_			
	INFORMATIO							
Weather cor	nditions @ time					-	<del></del>	
Sample Cha	racteristics:		col					
COMMENT	S AND OBSE	RVATIONS:						
	_							
·			<del>-</del>					
I certify that protocals.	t sampling prod	cedures were i	n accordance v	vith all app	licable EPA, Sta	ite and Site-Spe	cific	
Date:	1/ 120 12/102	Bv∙	Ll Zu	4	Company:	576	_	

	acility:	ARCH	CHEMICAL		Sample P	oint ID:	fw-12 (BK-101)		
	Field Person	nel:	PL, TB		Sample Matrix:		6 W		
	SAMPLING	INFORMATIO	N:				(K) Grab () Co	omposite	
	Date/Time	11-20-0	2 /	1305	Water Lev	vel @ Sampling,	Feet:	10.70	
	Method of Sa	ampling:	IN-SI	TU PUAR		_Dedicated:	<b>⊘</b> /N	1.93	
							( ) heavy	583055	
	SAMFLING	DATA:		_					
	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (		
	1310	16.8		2740	109.7	- 31			
	INSTRUME	NT CHECK DA	 \TA:						
	Solutions:					NTU std. =			
_		4-2188,					0.0 std. =	<del></del>	
	Conductivity		600750	146.9	umhos/cm=	- :	<u>パス</u> umhos/cm=	<u></u>	
	GENERAL	INFORMATIO	٧:						
	Weather con	nditions @ time	of sampling:		5.50	, 			
	Sample Cha	racteristics:	Si	7UNBIN					
	COMMENT	S AND OBSE	RVATIONS:						
					_				
	I certify that protocals.	sampling proc	edures were in	n accordance v	vith all app	licable EPA, Sta	te and Site-Spec	ific	
_	Date:	11 120 12002	Ву:	fl Lux	-	Company:	STL		

Facility: ARCH CHEMICAL	Sample Point ID: P2-/6/
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time // - 13 -02 / 1248	Cond of seal: 6 Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked (X Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-19-04 1250	Date / Time Completed: 11-19-0以 1316
Surf. Meas. Pt: ( ) Prot. Casing 💢 Riser	Riser Diameter, Inches: 2, o
Initial Water Level, Feet: 14, 95	Elevation. G/W MSL:
Well Total Depth, Feet: 21.69	Method of Well Purge: Ressiste Pump
One (1) Riser Volume, Gal:	Dedicated: (Ŷ/N
Total Volume Purged, Gal: 1.5	Purged To Dryness Y / (N)
Purge Observations:	Start Clark Finish Clark
PURGE DATA: (if applicable)	
Time Purge Rate Cumulative Temp. (gpm/htz) Volume (C) (s	pH Conduct Turb. Other Other td units) (Umhos/cm) (NTU)
	6.78 5878 6.31 6 1.00

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other Ø c.
1255	150	15.75		8.0	6.78	5818	6.31	6	1.00
1300				8.9	6.89	6023	5.12	6	. 93
1305				8.9	7.15	6027	4.90	6	,90
1310	$\Psi$	V		9.2	7.15	6026	4.83	5	.87

SAMPLEP. At 1310/11-14-02 El Zutt

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT ID Water Level @ Sampling, Feet:				
Date/Time	11	02 1						
Method of S	ampling:	<u> </u>	<del>_</del> _		Y/N			
Multi-phase	d/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )		
	NT CHECK D	/	= NTII	<u> </u>	NTU std. =	NTII		
	60075° 4-2186,	_				10.0 std. =		
Conductivity		600756	146.9	umhos/cm=	<u> </u>	イル_umhos/cm=		
	INFORMATIC	,			_			
	nditions @ time							
	aracteristics:							
-	S AND OBSE							
COMMENT	S AND OBSE	RVATIONS.				<u> </u>		
				<del>-</del>				
				<del></del>				
I certify tha protocals.	t sampling pro	cedures were	in accordance	with all app	olicable EPA, St	tate and Site-Specific		
Date:	11 1 102	. B <b>y</b> :			Company	: 57C		

Facility: ARCH CHEMICAL	Sample Point ID: P2-102 Sample Matrix: GW
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 19 -c2 1 1320	Cond of seal; (4) Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked (২) Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) / /
PURGE INFORMATION:	
Date / Time Initiated: 11-19-02/ 1321	Date / Time Completed: 11-19-04 / 340
Surf. Meas. Pt: ( ) Prot. Casing Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 15.25	Elevation. G/W MSL:
Well Total Depth, Feet: 32.60	Method of Well Purge: Perskill Dunt
One (1) Riser Volume, Gal:	Dedicated: (ÿ / N
Total Volume Purged, Gal: /,5	Purged To Dryness Y /(N)
Purge Observations:	Start Clark Finish Clark

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other OA	Other
1325	100	15.25		9.3	7.12	4854	1.87	-150	. 99
1330				4.4	7.24	4854	1.36	-168	. 45
1335				9.9	7.23	4855	1.13	171	.43
1340	4	4		9.9	7.24	4860	1.08	-173	. 70

SAMAN AT 1340/11-19-02 RI Low

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT ID				
Date/Time		02 1		Water Level @ Sampling, Feet:				
Method of S	Sampling:				Y/N			
Multi-phase	d/ layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING		<del></del>		<del></del>				
Time	Temp. ( °C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other (		
INSTRUME	ENT CHECK DA	ATA:						
Turbidity Se	3749 erial #:		=NTU		NTU std. =	_טדא		
pH Serial #: Solutions:	600750 4-2188,	_ 4.0 std.= フ・スパ	7 40	.0 std.= / 5 ಆ		10.0 std. =		
	y Serial #: 					<u>/ゲル</u> _umhos/cm=		
GENERAL	INFORMATIO	N:						
Weather co	nditions @ time	e of sampling:						
Sample Cha	aracteristics:							
COMMENT	TS AND OBSE	RVATIONS:						
	_							
I certify that	at sampling pro	cedures were	in accordance	with all app	licable EPA, St	tate and Site-Specific		
Date:	111102	. By:			Company	. STC		

Facility: ARCH CHEMICAL	Sample Point ID: P2-103
Field Personnel: R. Sent, P. Little	Sample Matrix:
MONITORTING WELL INSPECTION:	
Date/Time 11 - 19 -02 1 1 352	Cond of seal: ( Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked (A) Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm;/
PURGE INFORMATION:	
Date / Time Initiated: 11-14-04 /355	Date / Time Completed: 11-19-04 1415
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet: 32.52	Method of Well Purge: Peristalic Pump
One (1) Riser Volume, Gal:	Dedicated: 🛱 / N
Total Volume Purged, Gal: /-5	Purged To Dryness Y / 🕥
Purge Observations:	Start Clean Finish Clean
•	

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other UC
1400	ן מט ו	13.25		10.9	7.19	4706	1.23	-225	1.56
1405				11.1	7.20	4678	1.16	-230	1,01
1410				11,5	7.20	4675	1.10	×230	. 47
1415		1		11.8	7.20	4675	1.03	-231	,95
		]							

SAMM. 3 AT 1415/11-14-02 Del Jua

PAGE 1 OF 2

SAMPLING	INFORMATION	ON:		POINT ID				
Date/Time	Water Level @ Sampling, Feet:							
Method of Sa	ampling:				_Dedicated:	Y / N		
Multi-phased	l/ layered:	( )Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )		
	NT CHECK D.	,						
Turbidity Ser Solutions:	rial #:	NTU std.	=NTU		NTU std. =	_NTU		
-			7 40			10.0 std. =		
Conductivity	Serial #:	600752	,	umhos/cm=	=	/4/】_umhos/cm=		
	NFORMATIC	,			_			
Weather con	ditions @ time	e of sampling:						
Sample Chai	racteristics:							
COMMENT	S AND OBSE	RVATIONS:						
I certify that protocals.	sampling pro	cedures were	in accordance	with all app	olicable EPA, St	ate and Site-Specific		
Date:	111 102	Ву:			Company:	S7C		

Facility: ARCH CHEMICAL	Sample Point ID: P7-104
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 20 -02 1 1037	Cond of seal: Good () Cracked % () None () Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-20-001 1040	Date / Time Completed: 11-20 - cil //OC
Surf. Meas. Pt: ( ) Prot. Casing Riser	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 14.99	Elevation. G/W MSL:
Well Total Depth, Feet: 23.93	Method of Well Purge: Pershet com
One (1) Riser Volume, Gal:	Dedicated: (Y) N
Total Volume Purged, Gal: 2.0	Purged To Dryness Y /(N)
Purge Observations:	Start Clan Finish Clan
PURGE DATA: (if applicable)	

PURGE DATA: (if applicable)

Time	_	Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 0 o
1045	200	15.05		16,1	6.82	1906	14.62	-97	1.51
1050				15.9	6.86	1888	7.85	-124	1.01
1055				15.9	6.84	1885	2.90	-126	-98
1100	1			15.7	6.83	1887	1.26	_125	.94

SAM Med AT 1100 /11-20-02 Al Lette

PAGE 1 OF 2

SAMPLING	INFORMATI	ON:		POINT II					
Date/Time	Date/Time 11c2 / Water Level @ Sampling, Feet:								
Method of S	ampling:		<del>-</del> .		_Dedicated:	Y / N			
Multi-phase	d/ layered:	( )Yes	( ) No	If YES:	( ) light	( ) heavy			
SAMPLING	DATA:								
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other (			
	NT CHECK D	/	= NTU	,	NTU std. =	NTU			
Solutions:					-	.470			
			<u>0</u> 7			0.0 std. = <u>/ο. ο</u>			
Conductivity Solutions:	y Serial #:	<u>6275:</u> 26-1 1	146.9 412 - 26.2	umhos/cm=	= <u>/                                    </u>	<u> ソル_umhos/cm= / ソノ</u>			
GENERAL	INFORMATIC	DN:							
Weather co	nditions @ tim	e of sampling:							
Sample Cha	racteristics:		_						
COMMENT	S AND OBSE	RVATIONS:							
	·								
<del></del>									
I certify tha protocals.	t sampling pro	ocedures were	in accordance	with all app	olicable EPA, Sta	ate and Site-Specific			
Date:	111 102	By:			Company:	S7C			

Facility: ARCH CHEMICAL	Sample Point ID: P2-107
Field Personnel: R. Sever, P. L. H. R.	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 19 -02 1 1135	Cond of seal:(X) Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked ੴ Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	······································
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-19 Wal 1139	Date / Time Completed: 11-19-04 1200
Surf. Meas. Pt: () Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 6.74	Elevation. G/W MSL:
Well Total Depth, Feet: 27.90	Method of Well Purge: Perist. I.c. Pump
One (1) Riser Volume, Gal:	Dedicated: (Y) N
Total Volume Purged, Gal: /・ひ	Purged To Dryness Y / (N)
Purge Observations:	Start Clean Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other Oo
1145	700	6.90		9.9	7.01	3260	4.85	- 47	. 63
1150				10.0	7.10	3290	2.30	- 100	,57
1155				10.3	7.13	3289	2.14	- 100	.49
1260		1		10.4	7.17	3290	2.99	-10.0	.47

SAMMES At 1200/11-19-02

PAGE 1 OF 2

SAMPLING	INFORMATIO	ON:		POINT ID Water Level @ Sampling, Feet:				
Date/Time	11	GZ 1						
Method of S	ethod of Sampling: Dedicated: Y / N							
Multi-phase	d/ layered:					( ) heavy		
SAMPLING	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )		
INSTRUME	NT CHECK DA	ATA:		-	-			
Turbidity Se			=NTU		NTU std. =	_NTU		
pH Serial #: Solutions:	6cc 750 4-2188,	4.0 std.= _フ・ス/・	7 40	.0 std.=	1 _	0.0 std. =		
	y Serial #: 					ゲル umhos/cm=		
GENERAL	INFORMATIO	N:						
Weather co	nditions @ time	of sampling:						
Sample Cha	aracteristics:							
COMMENT	rs and obse	RVATIONS:						
		<del></del>						
I certify tha	at sampling pro	cedures were	in accordance	with all app	olicable EPA, St	ate and Site-Specific		
Date:	11 1 102	Ву:			Company:	57C		

LeachField Form Revision 0 March 15,2002

Facility:	ARCH	CHEMICAL		Sample P	oint ID:	$\frac{90-2}{5\omega}$ M Grab ( ) Composite					
Field Persor	ARCH	RS/PC		Sample M	atrix:	5/w					
	INFORMATIO	•				Grab () Co	mposite				
Date/Time	11-18 -0	2 1 0	0850	Water Lev	el @ Sampling,	Feet:	NA				
Method of S	ampling:	M.924	9L GRA.	6	_Dedicated:	Y/N					
Multi-phased	d/ layered:	( ) Yes	<b>⋈</b> No	if YES:	( ) light	( ) heavy					
SAMPLING			/								
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other (					
0852	g. 0	7./3	1848		12/						
INSTRUME	NT CHECK DA	ATA:									
Turbidity Se Solutions:	rial #:3799	/NTU std.	= <u>\$,0</u> NTU		ITU std. =	_NTU					
pH Serial #:	600150	4.0 std.=	7	.0 std.=	1	0.0 std. =	<u></u>				
Solutions:	4-2188,	7-2140,	10-215	0	_						
	y Serial #: <u>146.9 -                                    </u>		_			ジルス_umhos/cm=	<b>-</b>				
GENERAL	INFORMATIO	N:									
Weather co	nditions @ time	of sampling:	SNOW,	32°F							
Sample Cha	racteristics:	CLRAN									
COMMENT	COMMENTS AND OBSERVATIONS: QUARRY DISCHARCH										
I certify tha protocals.	I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.										
Date:	11 11 <sup>8</sup> 12003	_ By:	2/	1	Company:	57L					

PAGE 1 OF 1

LeachField Form Revision 0 March 15,2002

Facility:	ARCH	CHEMILAL		Sample Po	oint ID:	90-251					
Field Personnel: RS PC				Sample M	atrix:	<i>Q0-25/ S/∪</i> (X) Grab ( ) Composite					
SAMPLING	INFORMATIO	DN:				(X) Grab ( ) Co	omposite				
Date/Time	11-18-0	2 10	900	Water Lev	el @ Sampling,	, Feet:	N/A				
	ampling:				Dedicated:	, Y (N)					
						( ) heavy					
SAMPLING											
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ひ.e^ )	Other (					
0905	8-1	7.24	695		94						
INSTRUME	NT CHECK DA	 ATA:									
Turbidity Se Solutions:	rial #:3795	/NTU std.:		N	TU std. =	_NTU					
	600750				1	0.0 std. =	<del></del>				
	4-2188,				-						
	y Serial #: <u>146.9</u> −					<u>//ス</u> umhos/cm	= <u></u>				
	INFORMATIO		<u> </u>		-						
	nditions @ time		Causa	200R							
	_	or sampling:									
	racteristics:						<del>-</del>				
COMMENT	S AND OBSE	RVATIONS:	CANAL								
				<del></del>							
	<del>-</del> -										
	<del></del>										
I certify that protocals.	I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific										
Date:	11 1/812002	By:	2)/	7	_ Company:	STL					

PAGE 1 OF 1

LeachField Form Revision 0 March 15,2002

		CHEMICAL		Sample Po	olnt <b>i</b> D:	$\frac{GS - 4}{S/\omega}$ (XGrab () Composite				
Fleld Personn	nel:	RS/PC		Sample M	atrix:	<u> 5/w</u>				
SAMPLING I	NFORMATIC	DN:				() Grab () Co	omposite			
Date/Time _	11-18-0	2 1/	1015	Water Lev		, Feet:	14/4.			
Method of Sa	mpling:	5/5	PBIL		Dedicated:	Y (N)				
						( ) heavy				
SAMPLING I	DATA:									
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (のRP)	Other (				
1020	8.8	6.95		,	-16					
INSTRUMEN	IT CHECK DA	ATA:								
Turbidity Seri	ial #:3799	/_NTU std.	= <u>\$.0</u> ntu	N	ITU std. =	_NTU				
pH Serial #: _	600750	_ 4.0 std.=	7.	.0 std.≃	1	0.0 std. =				
			10-2150		-					
-			146.9 c 412 - 26-			<u>ゲル</u> umhos/cm	<b>=</b>			
GENERAL II		·	<u> </u>		-					
			C++0++ 7	0.01						
	_	CLEAR	SNOW, 3	520/2						
Sample Char	acteristics:	CCAAR								
COMMENTS	S AND OBSE	RVATIONS:								
							<del> </del>			
							<del></del>			
I certify that protocals.	I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.									
Date:	11 118 12002	By:	5/	<i>1</i> 	Company:	<u></u>				

PAGE 1 OF 1

## **FIELD OBSERVATIONS**

Facility: ARCH CHEMICAL	Sample Point ID: 5-3
Field Personnel: R. Sent, P. Little	Sample Matrix: GW
MONITORTING WELL INSPECTION:	
Date/Time 11 - 19 -02 1 1210	Cond of seal: Good ( ) Cracked
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked (XGood ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	( ) Daniageu
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL: /
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm / /
PURGE INFORMATION:	
Date / Time Initiated: 11-19-02/ 12/5	Date / Time Completed: 11-14-02 1235
Surf. Meas. Pt: ( ) Prot. Casing	Riser Diameter, Inches: 2.0
Initial Water Level, Feet: 2.75	Elevation. G/W MSL:
Well Total Depth, Feet:	Method of Well Purge: <u>femblic ford</u>
One (1) Riser Volume, Gal:	Dedicated:
Total Volume Purged, Gal: / 0	Purged To Dryness Y (Ñ)
Purge Observations:	Start Clerk Finish Clerk
PURGE DATA: (if applicable)	
Time Purge Rate Cumulative Temp. p	H Conduct Turb. Other Other

Time		e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other 00
1220	100	2.15		11.2	7.29	2334	6.20	-42.	1.97
1235				11.3	7.37	2347	5.40	-43	1.09
1230				11.2	7.40	2359	4.75	-43	. 96
1235	J	$\downarrow$		11,2	7.41	2372	3.97	-43	. 93

SAMMER AL 1235/11-1402 Pl Lute

PAGE 1 OF 2

Field Form Revision 0 03/14/02

## FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION:				POINT ID				
Date/Time _	11	·02 1		Water Level @ Sampling, Feet:				
Method of Sar	mpling:	·			_Dedicated:	Y/N		
Multi-phased/	layered:	( ) Yes	( ) No	If YES:	( ) light	( ) heavy		
SAMPLING E	DATA:							
Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other (		
INSTRUMEN Turbidity Seri Solutions:	3799 al #:	/ NTU std.	=NTU		NTU std. =	NTU		
	600 750	4.0 std.=		.0 std.=		0.0 std. =		
			146.9 412 - 26.2			<u> ゲル</u> umhos/cm=		
GENERAL II		,			_			
Weather cond	ditions @ tim	e of sampling:						
Sample Chara	acteristics:	_						
COMMENTS	S AND OBSE	ERVATIONS:						
	-							
I certify that protocals.	sampling pro	ocedures were	in accordance	with all app	olicable EPA, Sta	ate and Site-Specific		
Date:	111 107	By:			Company:	<u>57C</u>		

## **FIELD OBSERVATIONS**

Facility: ARCH CHEMICAL	Sample Point ID: 5-4/
Field Personnel: R. Sent, P. Little	Sample Matrix: 6W
MONITORTING WELL INSPECTION:	
Date/Time // - /9 -02 / 1056	Cond of seal: M Good ( ) Cracked % ( ) None ( ) Buried
Prot. Casing/riser height:	Cond of prot. Casing/riser: ( ) Unlocked 🎢 Good ( ) Loose ( ) Flush Mount ( ) Damaged
If prot.casing; depth to riser below:	
Gas Meter (Calibration/ Reading): % Gas:	/ % LEL:/
Vol. Organic Meter (Calibration/Reading):	Volatiles (ppm) /
PURGE INFORMATION:	
Date / Time Initiated: 11-19-021 1/60	Date / Time Completed: 11-19-021 1120
Surf. Meas. Pt: ( ) Prot. Casing	Riser Diameter, Inches: 2, 0
Initial Water Level, Feet:	Elevation. G/W MSL:
Well Total Depth, Feet: /3.05	Method of Well Purge: Penishika Puril
One (1) Riser Volume, Gal:	Dedicated: (Y / N
Total Volume Purged, Gal:	Purged To Dryness Y N
Purge Observations:	Start <u>Clein</u> Finish <u>Clein</u>

PURGE DATA: (if applicable)

Time	_	e Rate n/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other 00	Other ON/P
1105	100	.70		9.1	7.17	347	30.6	1.05	-43
1110				9.0	7.37	347	25.4	.97	-44
1115				9.0	7-40	346	15.03	.93	-40
1120	7			9,0	7.40	346	15.06	.93	-38
		1							

SAMMes At 1120/11-19-02 Del Luco

PAGE 1 OF 2

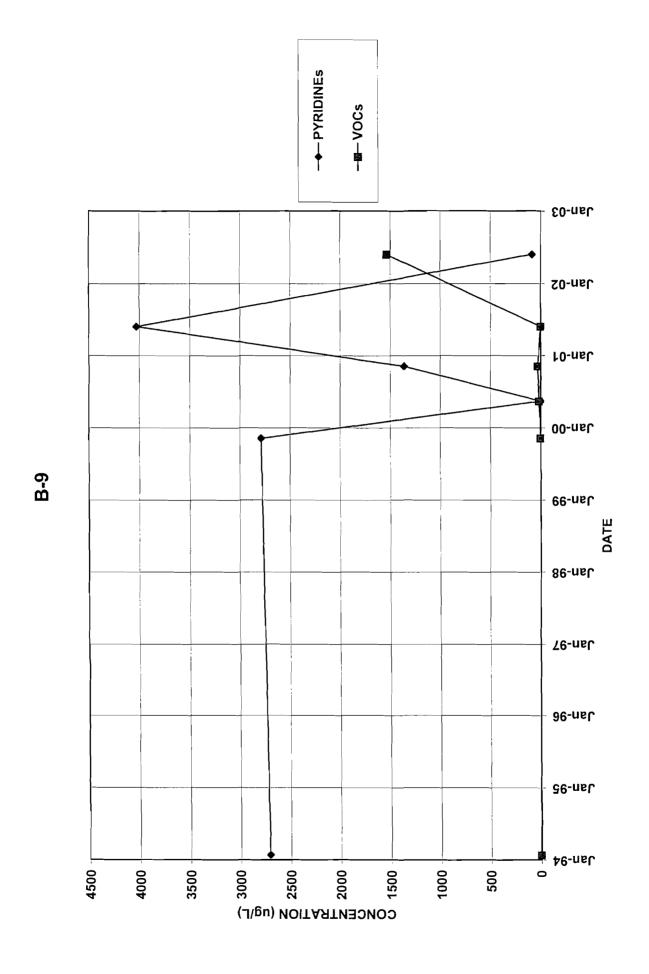
Field Form Revision 0 03/14/02

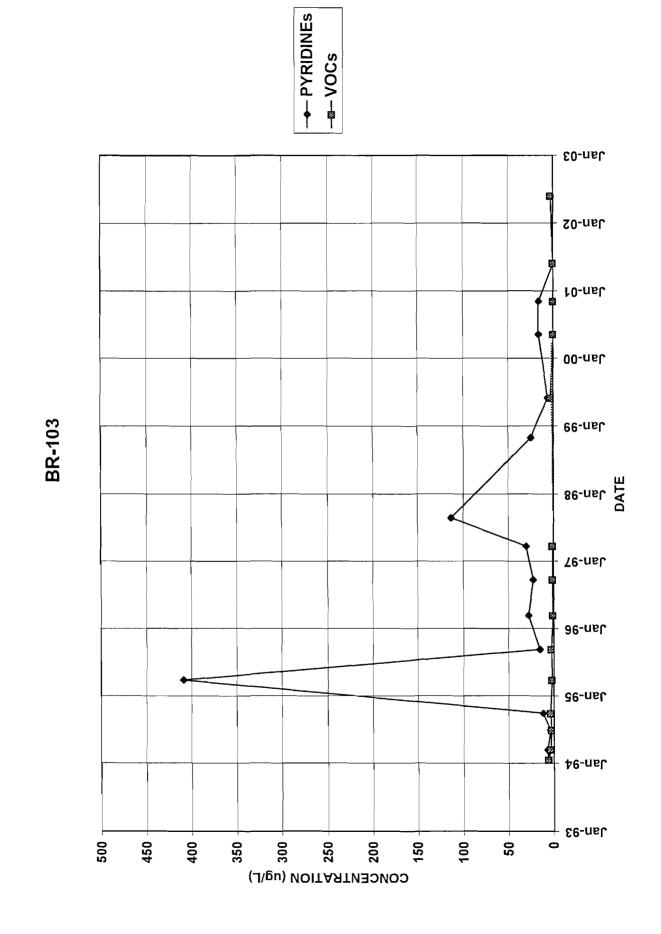
## FIELD OBSERVATIONS (continued)

SAMPLING INFORMATION:	POINT ID				
Date/Time 1102 1	Water Level @ Sampling, Feet:				
Method of Sampling:	Dedicated: Y / N				
Multi-phased/ layered: ( ) Yes ( ) No	If YES: ( ) light ( ) heavy				
SAMPLING DATA:					
Time Temp. pH Conduct (°C) (std units) (Umhos/cm	Turb. Other Other				
INSTRUMENT CHECK DATA:					
Turbidity Serial #:NTU std. =NTU Solutions:					
pH Serial #: <u>6:cc 75°</u> 4.0 std.=  Solutions: <u>4-2166</u> , <u>7-2140</u> , 10-					
Conductivity Serial #: 6075 146.9  Solutions: 146.9 - 26-1 1412 - 26					
GENERAL INFORMATION:					
Weather conditions @ time of sampling:					
Sample Characteristics:					
COMMENTS AND OBSERVATIONS:					
I certify that sampling procedures were in accordance protocals.	ce with all applicable EPA, State and Site-Specific				
Date: <u>// / / で</u> よ By:	Company: 57C				

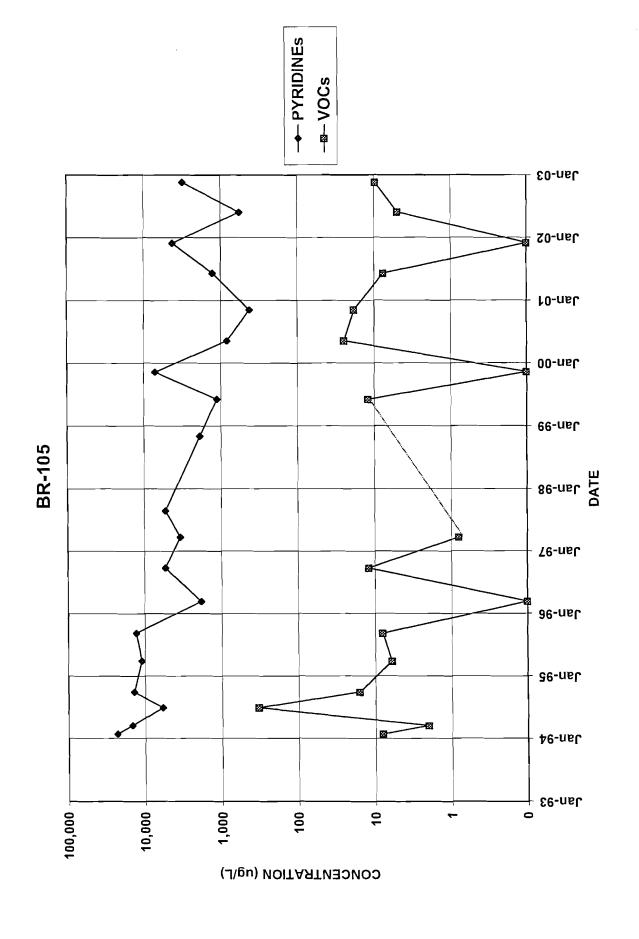
Appendix B

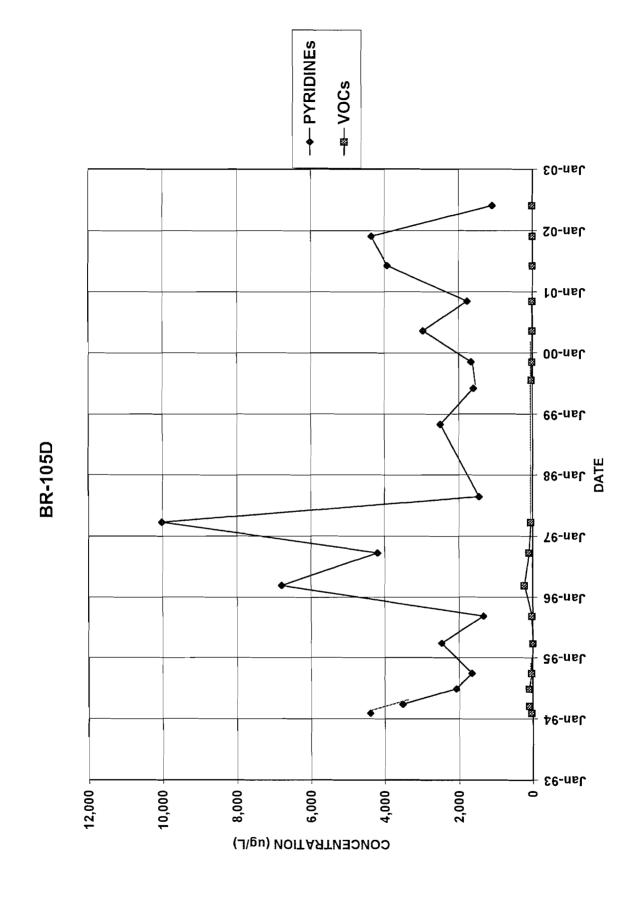
**Well Trend Data** 



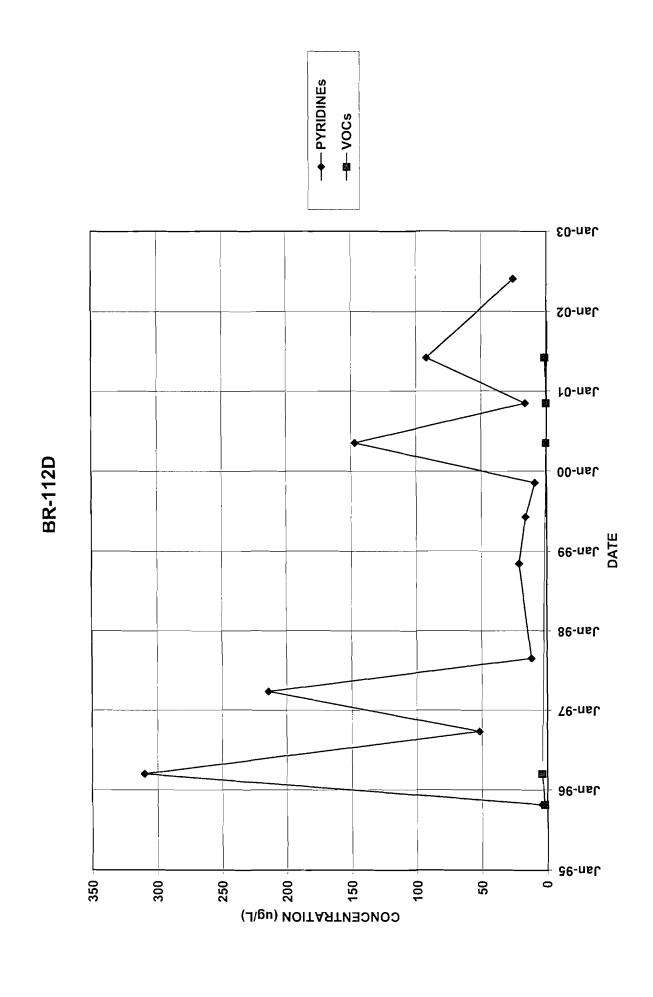


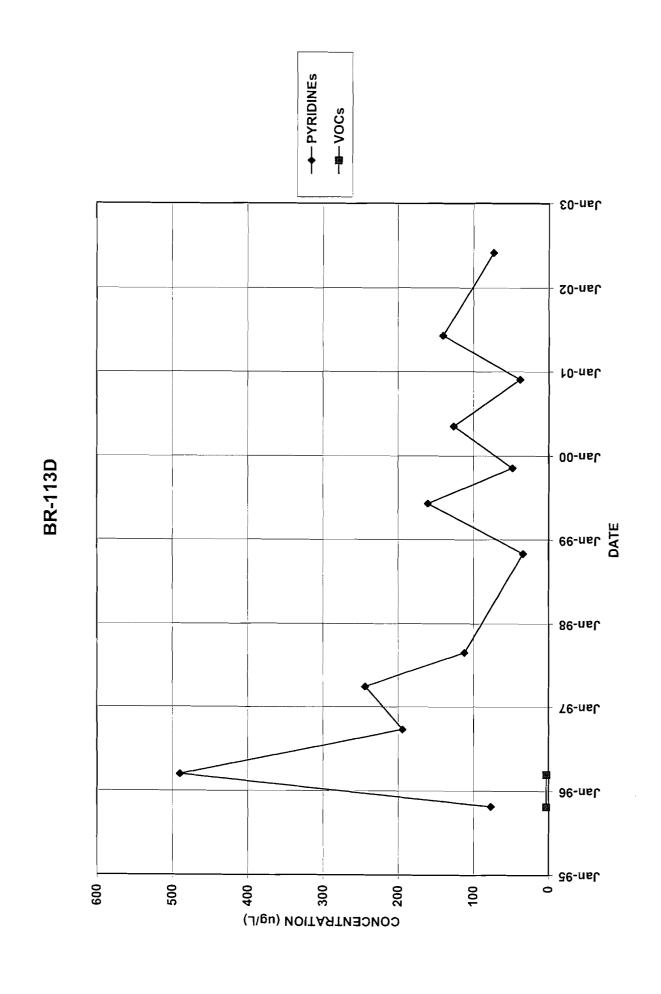
**BR-104** 

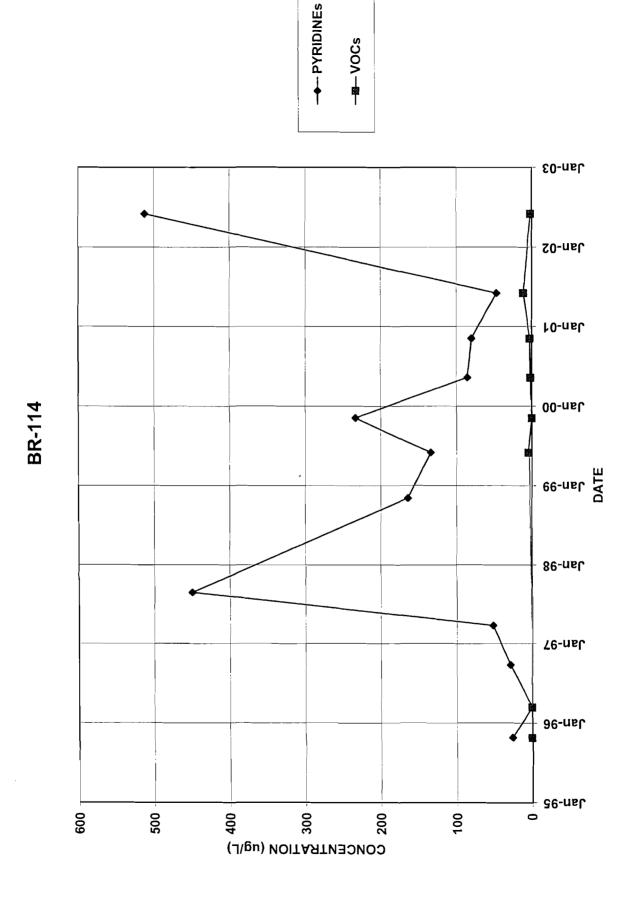


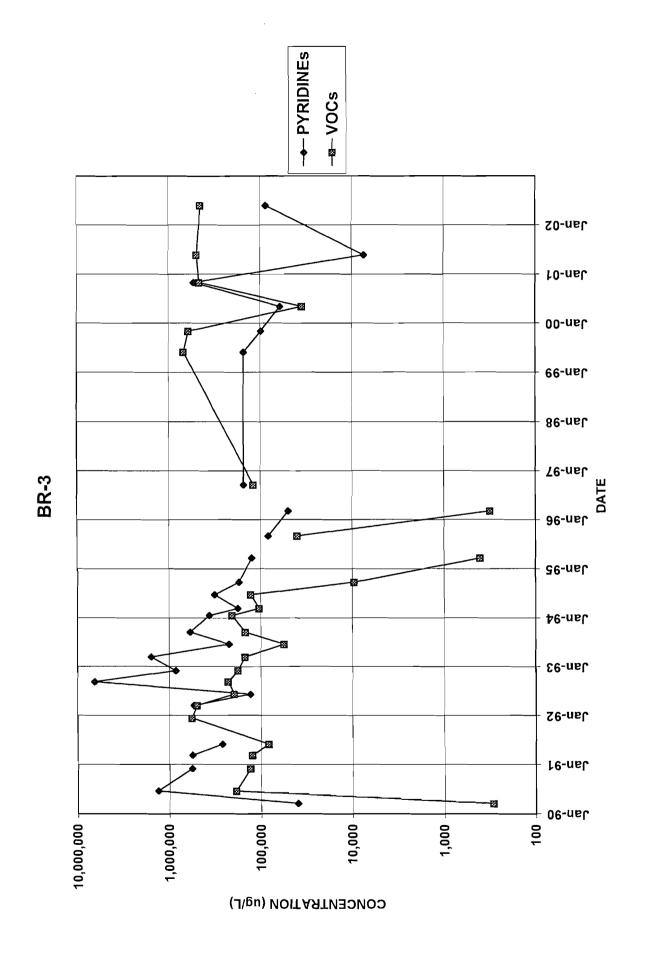


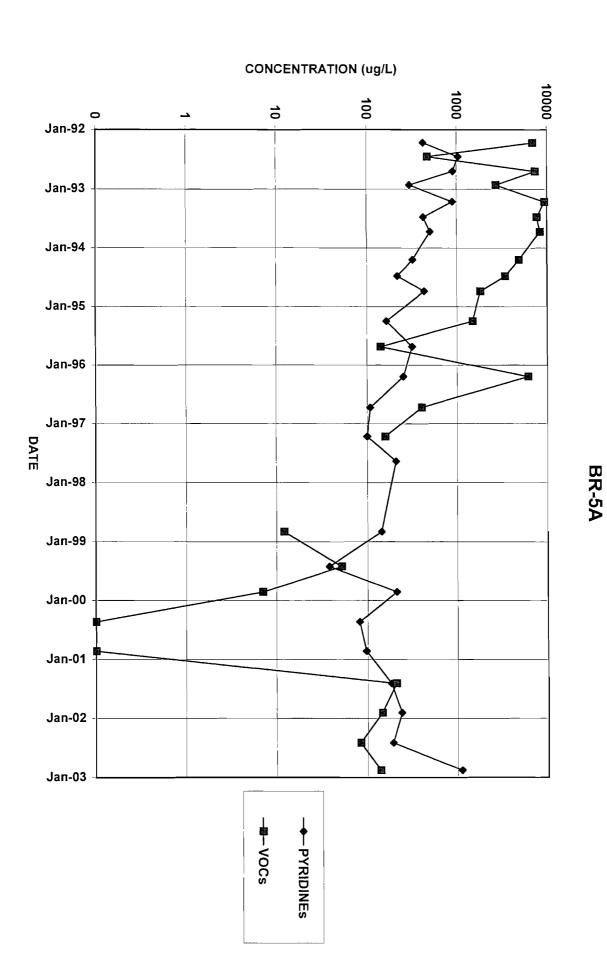
BR-106

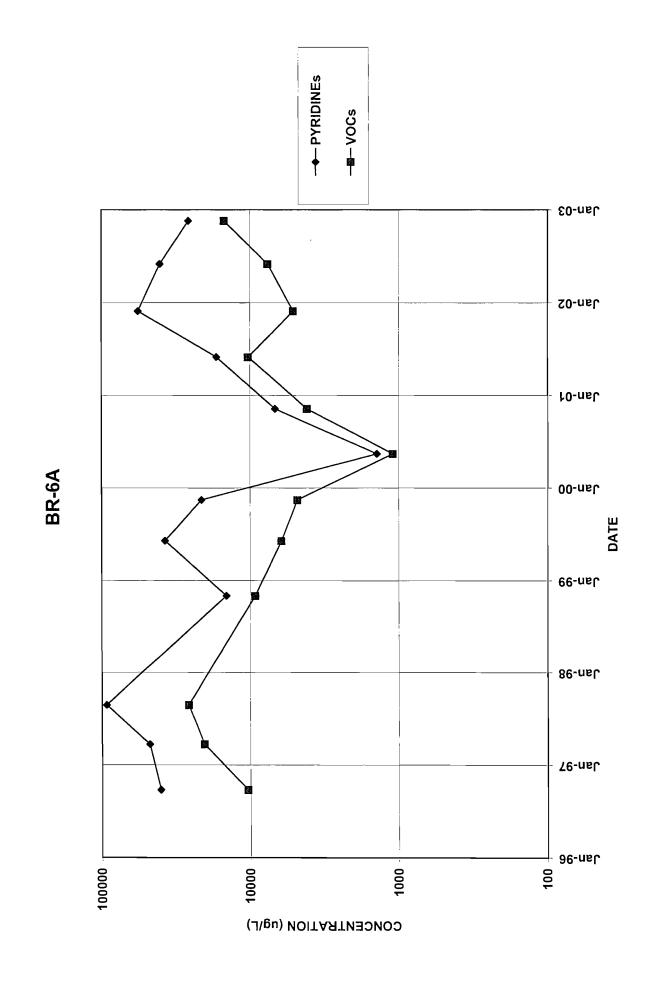


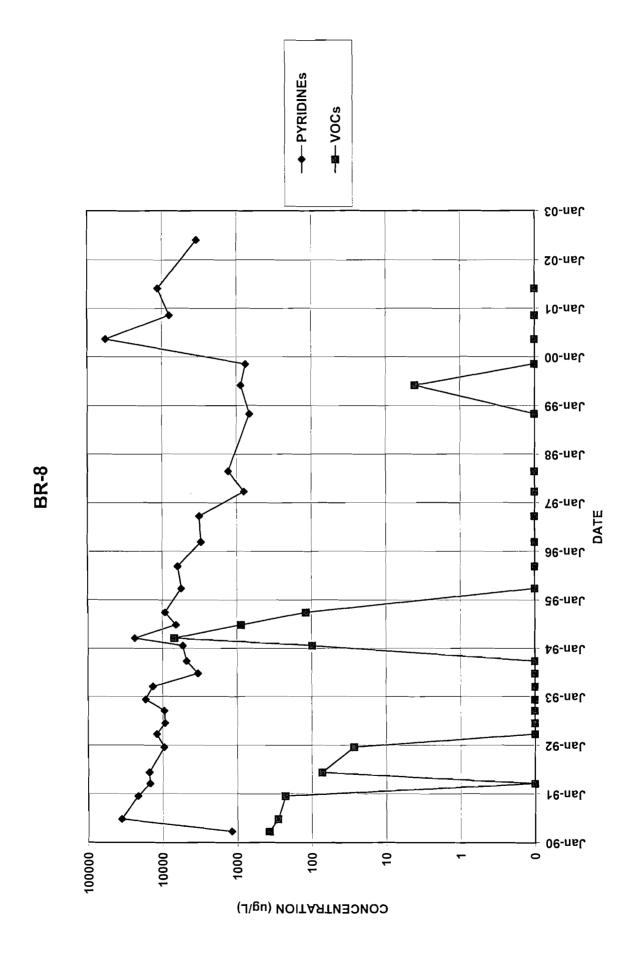


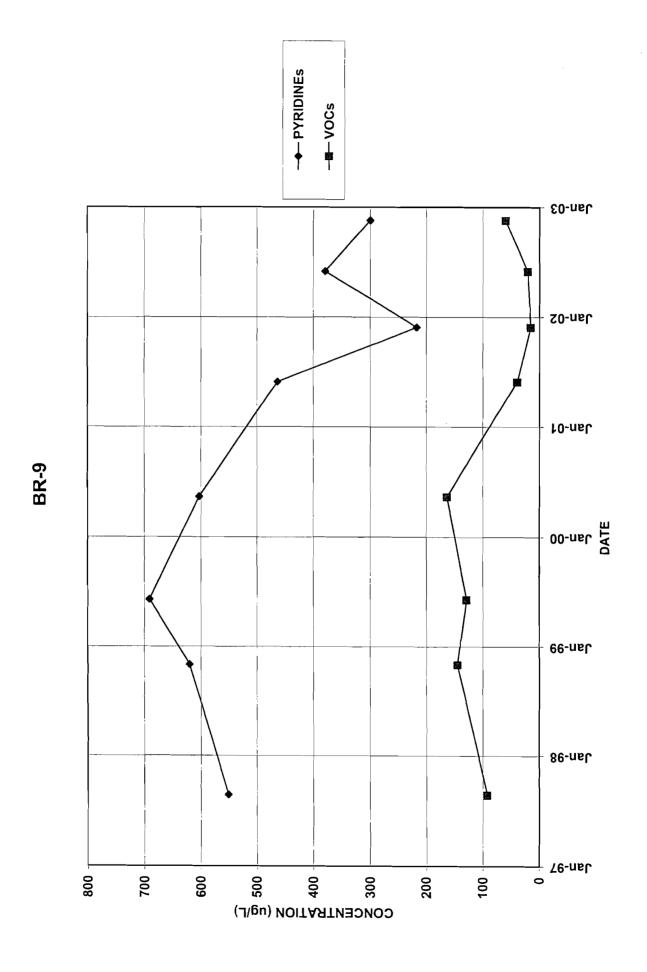


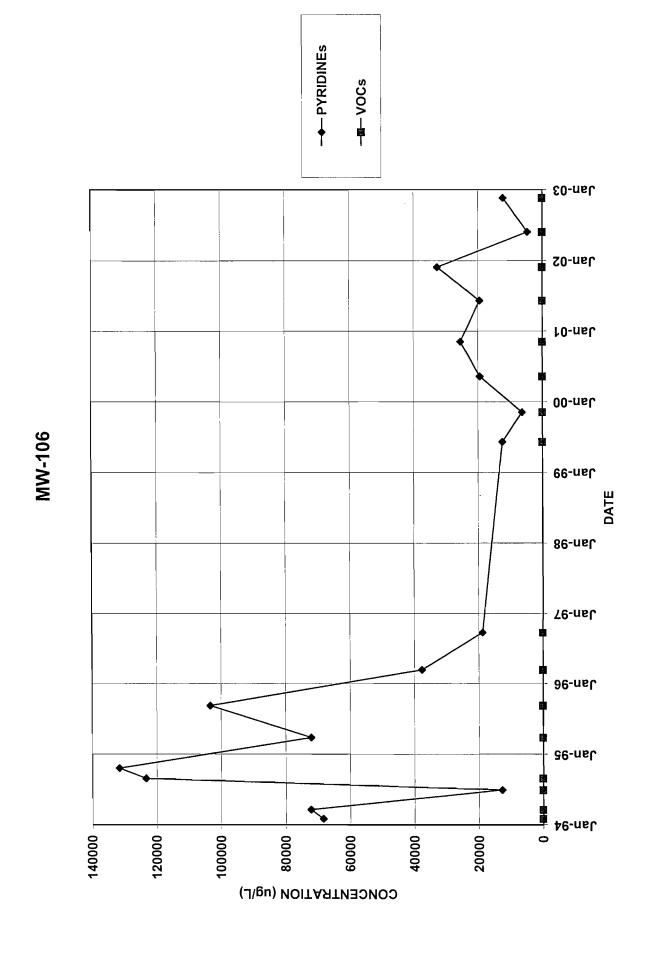


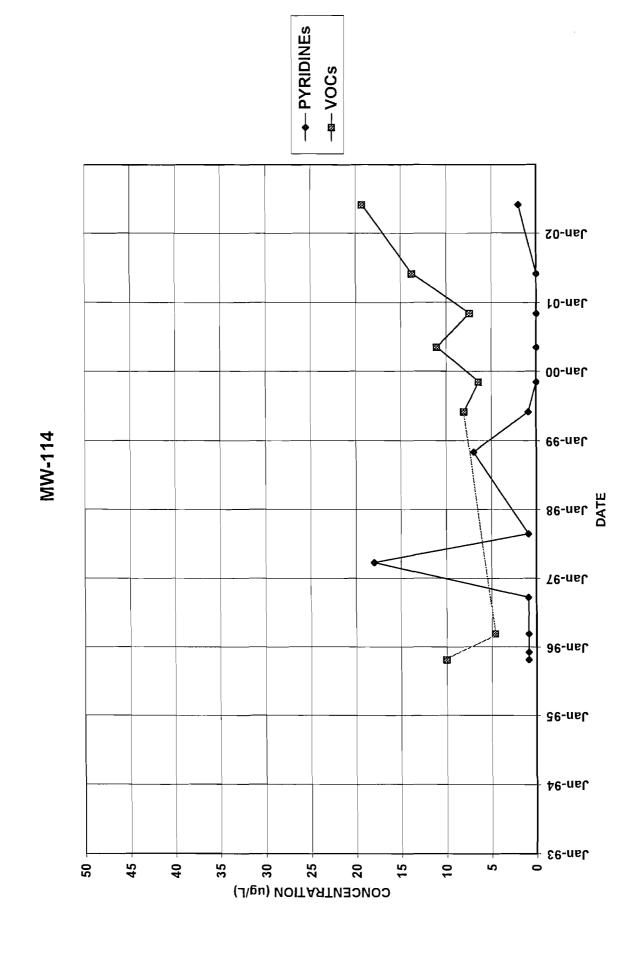


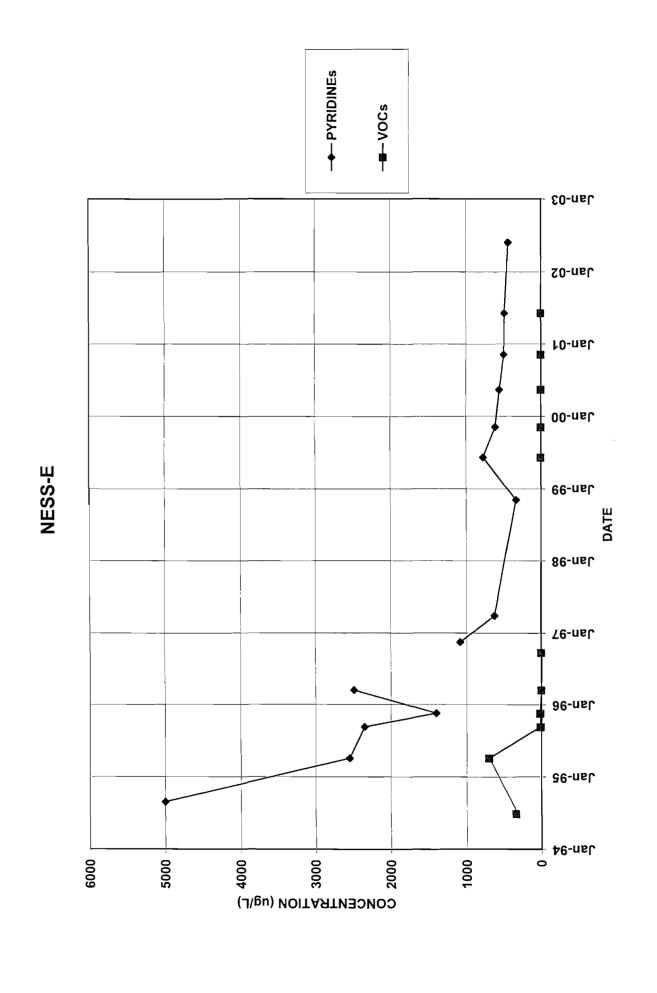


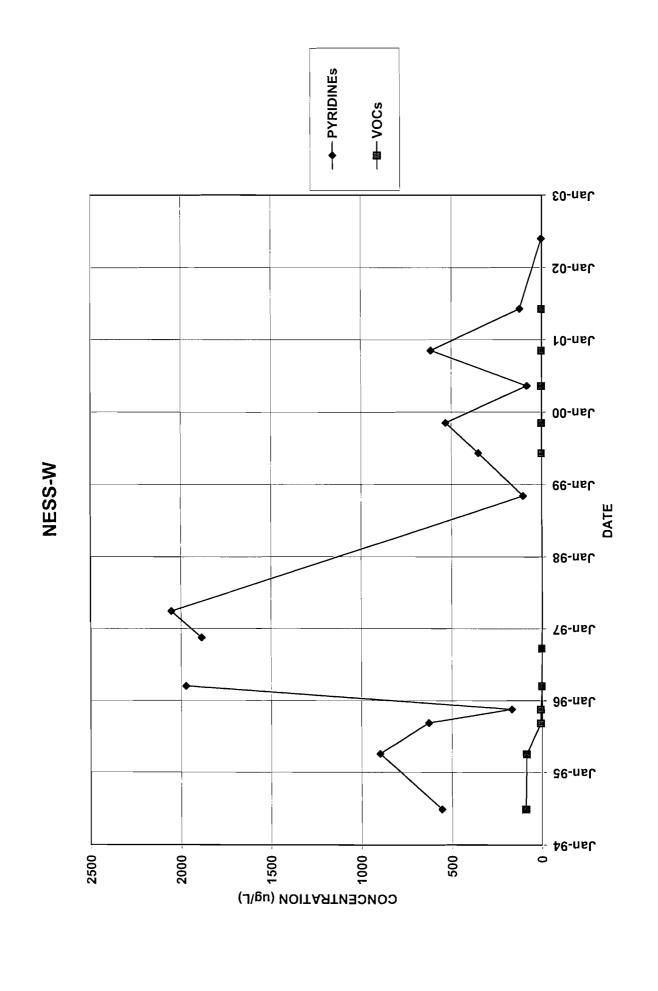


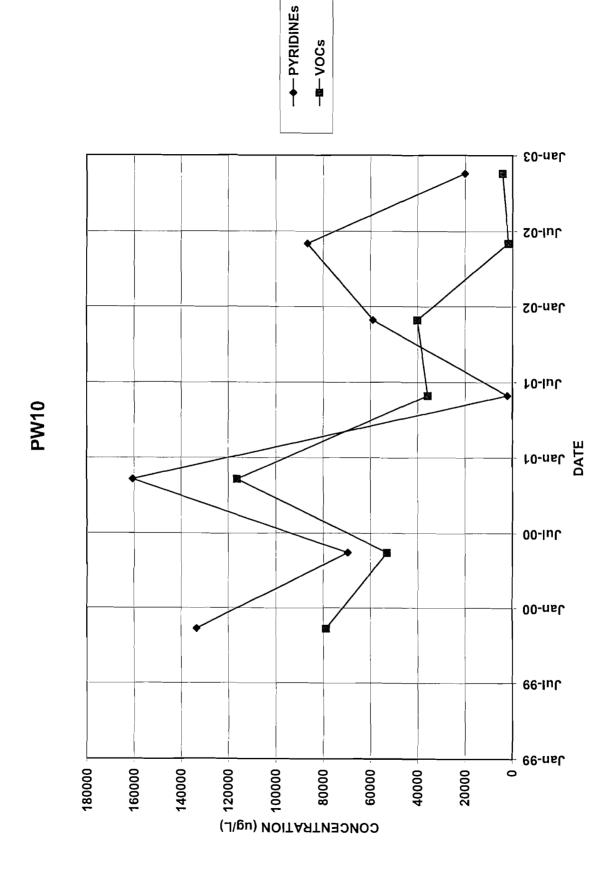


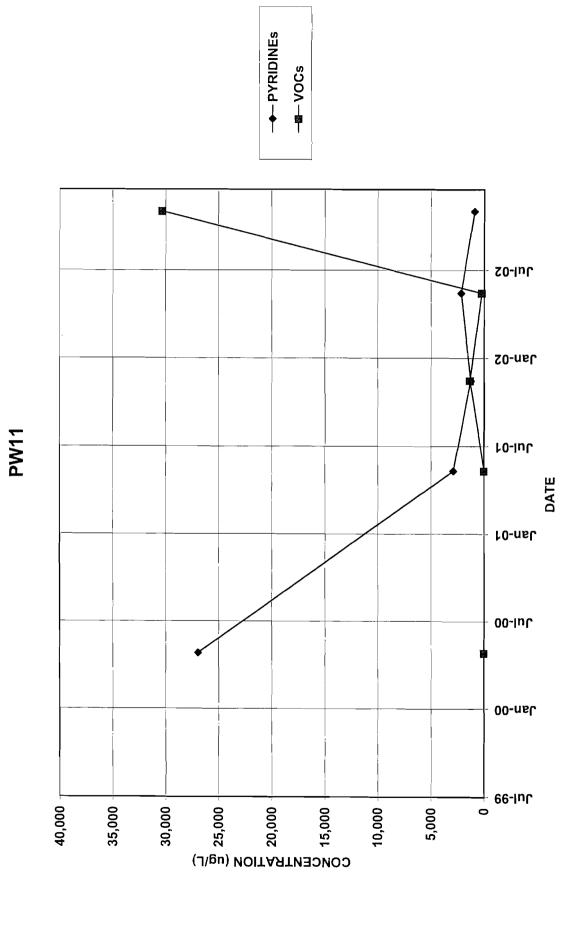






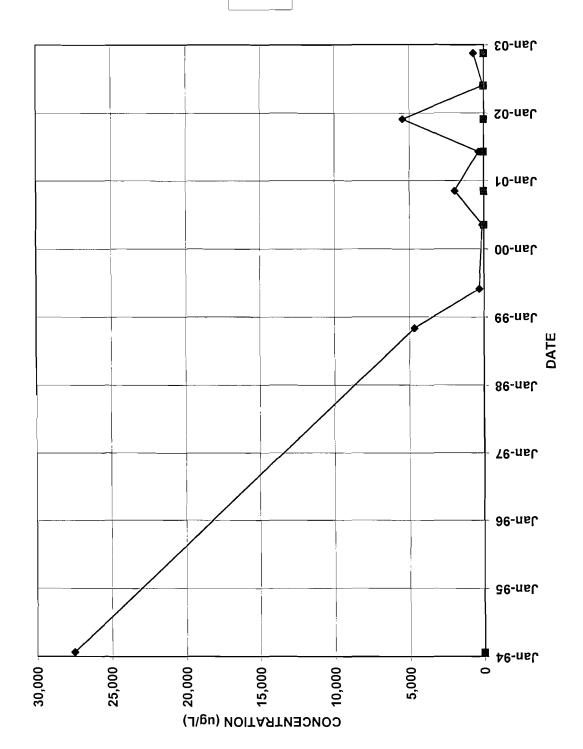






--- PYRIDINES -⊞-VOCs ղցո-03 1գո-05 1<sub>8</sub>n-01 PW12 (Formerly BR-101) ารม-00 1ցո-99 DATE 98-ngL 18-ոբ 96-นะโ วุธ-นะโ **1**8-րթՐ 100000 100 10000 10000001 1000 CONCENTRATION (ug/L)







→ PYRIDINES

-■-Vocs

Jan-03



