Arch Chemicals, Inc.
P. O. Box 800
1200 Lower River Road
Charleston, TN 37310
Tel (423) 780-2724

February 28, 2007

Mr. James H. Craft
New York State
Department of Environmental Conservation
6274 East Avon-Lima Road
Avon, NY 14414

Re: Arch Rochester Fall 2006 Monitoring Report
Arch Chemicals (Site #628018a) 100 McKee Rd., Rochester, NY

Dear Mr. Craft:

The enclosed report presents the Fall 2006 results for the on-going groundwater and surface water monitoring program being conducted by Arch Chemicals, Inc., at its Rochester, New York, manufacturing facility.

If you have any questions regarding this submittal, please call me at (423) 780-2175.

Sincerely,

Gayle M. Taylor, jeb

Gayle M. Taylor
Manager, Environmental Issues
Arch Chemicals, Inc.

encl.

cc (w/encl): Bart Putzig, NYSDEC
James Reidy, USEPA Region II
Karin Klock, Arch Chemicals, Inc.
Jeffrey Brandow, MACTEC Engineering & Consulting, P.C.

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM
FALL 2006 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

ARCH CHEMICALS, INC.
CHARLESTON, TENNESSEE

FEBRUARY 2007

SURFACE WATER AND GROUNDWATER MONITORING PROGRAM
FALL 2006 MONITORING REPORT

ARCH CHEMICALS
ROCHESTER PLANT SITE
ROCHESTER, NEW YORK

Prepared by

MACTEC Engineering & Consulting, P.C.
Portland, Maine

for

ARCH CHEMICALS, INC.
Charleston, Tennessee

February 2007

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Senior Geologist

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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 in November and December, 2006.

During this monitoring event, samples from a total of 27 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.

As in prior reports, monitoring results were compared with previous average concentrations at each sampling location. Twenty-three of the 30 monitoring locations sampled for chloropyridines had contaminant concentrations that were at or below their respective 5-year prior averages. Twenty of the 26 monitoring locations sampled for volatile organic compounds had concentrations at or below their 5-year prior average. Contaminant contour plots are generally consistent with past observations.

Regular sampling locations associated with the quarry included the main quarry seep (QS-4), the quarry ditch as it enters the Erie Barge Canal (QO-2), and the surface water in the canal approximately 100-feet downstream of the quarry ditch (QO-2S1). The sample from quarry seep QS-4 remained below its historical average. Sample QO-2 contained chloropyridines at an estimated 4 µg/L, which is slightly above the 5-year prior average for this location. The sample from the canal had no detectable chloropyridines.

During the period June 2006 through November 2006, the on-site groundwater extraction system pumped approximately 6.9 million gallons of groundwater to the on-site treatment system, containing an estimated 492 pounds of chloropyridines and 48 pounds of target volatile organic compounds.

Pump and/or meter repairs were required in wells BR-5A, BR-7A, BR-9, PW-11, and PW-13. In addition, pumping from several wells was reduced or temporarily suspended during two sewer line repair events during the reporting period, in August and November.

In November 2006, pumping well PW-10 partially collapsed while Arch was attempting to remove the pump for service. This well is no longer operational, and Arch has recommended it be replaced with a pumping well at a new location slightly south of PW-10.

All accessible on-site monitoring wells were checked for the presence of dense non-aqueous phase liquids (DNAPL) and floating (or light) NAPL (LNAPL), using an interface probe. No DNAPL or LNAPL was observed in any of these wells, with the exception of pumping well PW-13. Arch has been tracking the accumulation of LNAPL PW-13 since the well was installed in 2004. During this monitoring event, less than one inch of LNAPL was measured in PW-13.

The next regular monitoring event will occur in May 2007 and will include groundwater, surface water, and seep sampling.

1.0 INTRODUCTION

In accordance with the Order on Consent executed between Arch Chemicals, Inc., and the New York State Department of Environmental Conservation (NYSDEC), effective August 21, 2003, Arch is conducting a Remedial Action program 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 2006 sampling event included the collection and analysis of a total of 30 groundwater, surface water, and seep samples from off-site and on-site locations. Samples were collected November 7 - 13, 2006, and December 20, 2006, for analysis of selected chloropyridines and volatile organic compounds (VOCs).

This report presents the results of the Fall 2006 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. Samples were collected by Severn Trent Laboratories and transported to their laboratory in Amherst, New York for analysis. Table 1 lists the wells that were sampled and the requested analyses. The off-site and on-site locations of these sampling points are shown in Figures 1 and 2, respectively. 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 active pumping wells (BR-5A, BR-7A, BR-9, PW-11, PW-13, and PW-14) were collected from the discharge lines.

Groundwater piezometric elevations were measured on November 7, 2006. Piezometric contour maps were constructed for each water-bearing zone (overburden, bedrock, and deep bedrock) and are presented in Figures 3, 4, and 5.

All accessible on-site monitoring wells were again checked for the presence of non-aqueous phase liquid (NAPL), using an interface probe. No dense NAPL (DNAPL) was observed in any of these wells. A small amount (0.05') of floating NAPL (LNAPL) was observed only in pumping well PW-13, where it has been observed since the well's installation in 2004.

2.2 SURFACE WATER

Surface water and quarry seep 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 (QS-4), the surface ditch that receives the quarry discharge (QO-2), and the Barge Canal (QO-2S1) were collected by Severn Trent Laboratories on November 7, 2006. Samples were analyzed for the Arch suite of selected chloropyridines. The quarry locations sampled during this event are shown on Figure 7.

2.3 ANALYTICAL PROCEDURES

The analytical procedures, data review findings, and validated data for this groundwater and surface water 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 approximately 10 micrograms per liter (µg/L) and 5 to 25 µg/L, respectively, for undiluted samples.

2.4 QUALITY CONTROL

All laboratory analytical results were reviewed and qualified following U.S. Environmental Protection Agency Contract Laboratory Program (USEPA CLP), "National Functional Guidelines For Organic Data Review", October, 1999, as modified by USEPA Region II, "SOP No. HW-6 Revision XII", March 2001. Analytical results were evaluated for the following parameters:

* Collection and Preservation
* Holding Times
* Surrogate Recoveries
* Blank Contamination
* Duplicates
* Laboratory Control Samples
  Matrix Spike/Matrix Spike Duplicates
  Miscellaneous

* - *all criteria were met for this parameter*

With the qualifications discussed below, results are determined to be usable as reported by the laboratory.

Matrix Spike/Matrix Spike Duplicates. The matrix spike and matrix spike duplicate associated with the volatile sample PZ-103 had percent recoveries for chlorobenzene that were greater than control limits. The result for chlorobenzene in sample PZ-103 was positive and was qualified as estimated (J) and is potentially biased high.

Miscellaneous. Several samples required dilutions due to concentrations of the target analytes pyridine, 2-chloropyridine, chloroform, carbon disulfide, carbon tetrachloride, and chlorobenzene that were greater than the instrument calibration range. These dilutions

ranged from two to five thousand times. Results were reported from the lowest diluted analytical run that met validation criteria.

3.0 ANALYTICAL RESULTS

3.1 GROUNDWATER

The validated results from the Fall 2006 groundwater monitoring event are provided in Tables 2 and 3. Table 4 provides a comparison of the Fall 2006 analytical results for selected chloropyridines and VOCs in representative wells to mean concentrations of the prior five years (Fall 2001 through Spring 2006). 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

On-Site. Chloropyridines were detected above sample quantitation limits in all 17 on-site wells sampled in the Fall 2006 event. Concentrations of chloropyridines ranged from 21 micrograms per liter (µg/L) (sum of all chloropyridine and pyridine isomer concentrations) in monitoring well S-4 to 324,000 µg/L in pumping well PW-10. Eleven of the on-site wells exhibited total chloropyridine concentrations that were below their respective means from monitoring events over the previous five years (see Table 4). Wells BR-7A, MW-127, PW-11, PW-14 and PZ-107 contained chloropyridines at levels exceeding their prior 5-year means, but below their historical maximums. Well PW-10 exhibited a substantial increase in chloropyridine concentrations. This former pumping well is no longer operating due to a partial collapse of the well, and the increase is likely related to this change in operational status (i.e., less-contaminated water is no longer being drawn to the vicinity of the well by the pumping stress on the aquifer).

Off-Site. Chloropyridines were detected above sample quantitation limits in all ten off-site wells that were sampled. Concentrations of total selected chloropyridines ranged from an estimated 3 µg/L in MW-16 (on the former General Circuits property) to 8,240 µg/L in monitoring well MW-106. All of the off-site wells contained total chloropyridine concentrations that were below their respective 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. Contours are approximated (shown as dashed lines) where they are based on data from previous sampling rounds.

3.1.2 Selected VOCs.

On-Site. Selected VOCs were detected in 14 of the 17 on-site wells sampled in the Spring 2006 event. Concentrations of VOCs ranged from non-detect (in wells BR-127, MW-127, and S-4) to 383,500 µg/L in PZ-106 for the sum of the principal site-related contaminants (carbon tetrachloride, chloroform, methylene chloride, tetrachloroethene, and trichloroethene). Two of the on-site wells (pumping wells BR-9 and PW-13) contained

concentrations of total VOCs slightly above their 5-year prior means. In addition to the selected VOCs, other notable constituents detected in on-site wells include chlorobenzene (in 14 out of 17 wells), benzene (11 of 17), toluene (11 of 17), carbon disulfide (11 of 17), 1,2-dichloroethene (10 of 17), vinyl chloride (10 of 17), ethylbenzene (7 of 17), bromoform (5 of 17), xylenes (5 of 17), and 1,1-dichloroethane (5 of 17).

Off-Site. Selected VOCs were detected in 8 of the 9 off-site wells sampled for VOCs in the Spring 2006 event. Total concentrations of selected VOCs ranged from non-detect (in MW-106) to 225 µg/L (in BR-126). Four of the off-site wells had selected VOC concentrations slightly above their prior 5-year mean. In addition to the selected VOCs, other notable constituents detected in off-site wells include benzene (in 9 out of 9 wells), chlorobenzene (7 of 9), carbon disulfide (6 of 9), toluene (6 of 9), 1,2-dichloroethene (5 of 9), vinyl chloride (5 of 9), and 1,1-dichloroethane (3 of 9).

Concentration Contours. The distribution of selected VOCs in groundwater is shown as a set of concentration contours on Figure 9. These contours were developed using both overburden and bedrock groundwater data, and are dashed where approximated using data from previous sampling rounds.

3.2 SURFACE WATER

Results from the Fall 2006 canal and quarry monitoring event are presented in Table 5, and summarized below.

3.2.1 Quarry

One quarry seep was sampled in the Fall 2006 monitoring event. Quarry seep QS-4 contained 240 µg/L total chloropyridines. Concentrations remain below historical averages.

3.2.2 Quarry Discharge Ditch

One sample was collected from the quarry discharge ditch and analyzed for chloropyridines. Sample QO-2 was collected at the point where the ditch discharges to the canal. Total chloropyridines were detected in the ditch sample at an estimated concentration of 4 µg/L, which is slightly above the 5-year prior mean for this location.

3.2.3 Barge Canal

No chloropyridines were detected in the surface water sample collected from the Erie Barge Canal (QO-2S1, located approximately 100 feet downstream of QO-2).

4.0 EXTRACTION SYSTEM PERFORMANCE AND MAINTENANCE

Table 6 is a summary of the system flow measurements for the on-site extraction wells from June 2006 through November 2006. The total volume pumped during the six-month period is approximately 6.9 million gallons.

Pump and/or meter repairs were required in wells BR-5A, BR-7A, BR-9, PW-11, and PW-13. In addition, production from several wells was reduced or temporarily suspended during two sewer line repair events during the reporting period, in August and November.

In November 2006, pumping well PW-10 partially collapsed while Arch was attempting to remove the pump for service. This well is no longer operational, and Arch has recommended it be replaced with a pumping well at a new location slightly south of PW-10.

Table 7 provides a calculation of mass removal rates since the previous groundwater monitoring event (i.e., from June 2006 through November 2006). Arch estimates that approximately 48 pounds of target VOCs and 492 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

For other issues related to the remedial action program at the Arch Rochester Plant Site, please see the monthly progress reports, which commenced in February 2005.

6.0 NEXT MONITORING EVENT

The next regular monitoring event will occur in May 2007 and will include groundwater, surface water, and seep sampling.

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

Figures

Tables

Appendix A

Groundwater Field Sampling Data Sheets

Appendix B

Well Trend Data

Figures

Legend

Outline of Arch Property Boundary

Monitoring Well

NOTES

1. Source - Topographic Quadrangle 7.5-Minute Series

N

0 250 500 1,000 Feet

Prepared by JJW | Checked by NMB

ERIE BARGE CANAL

I-390

FIRTH RIXSON

BUFFALO RD. BUSINESS CENTER

ARCH

MW-103/BR-103

MW-108/BR-108

PZ-102

BR-111/BR-111D

BR-106/MW-106

PZ-103

MW-16

AID TO HOSPITALS

ARM

MW-126/BR-126

MW-105/BR-105

BR-112/BR-112D

MW-104/BR-104

BUFFALO ROAD

MW-114/BR-114

12-6

CUMBERLAND FARMS PETROLEUM TERMINAL

OW-105

NESS-W

NESS-E

8-8

7-6

BR-113/BR-113D

LEXINGTON

11-8

GENERAL RAIL SIGNAL CO.

DOLOMITE PRODUCTS QUARRY

9-6

RW-1

10-6

13-4

Morey

OW-102A

OW-103

PFAUDLER

BR-122D

BR-117/BR-117D

BR-121D (Abandoned)

BR-118/BR-118D

BR-123D

BR-116/BR-116D

BR-120D (Abandoned)

BR-119D (Abandoned)

LETTINGTON DRIVE

BR-124D

Figure 1
Off-Site Groundwater Monitoring Well Locations

Arch Chemicals
Rochester, NY
MACTEC, Inc.

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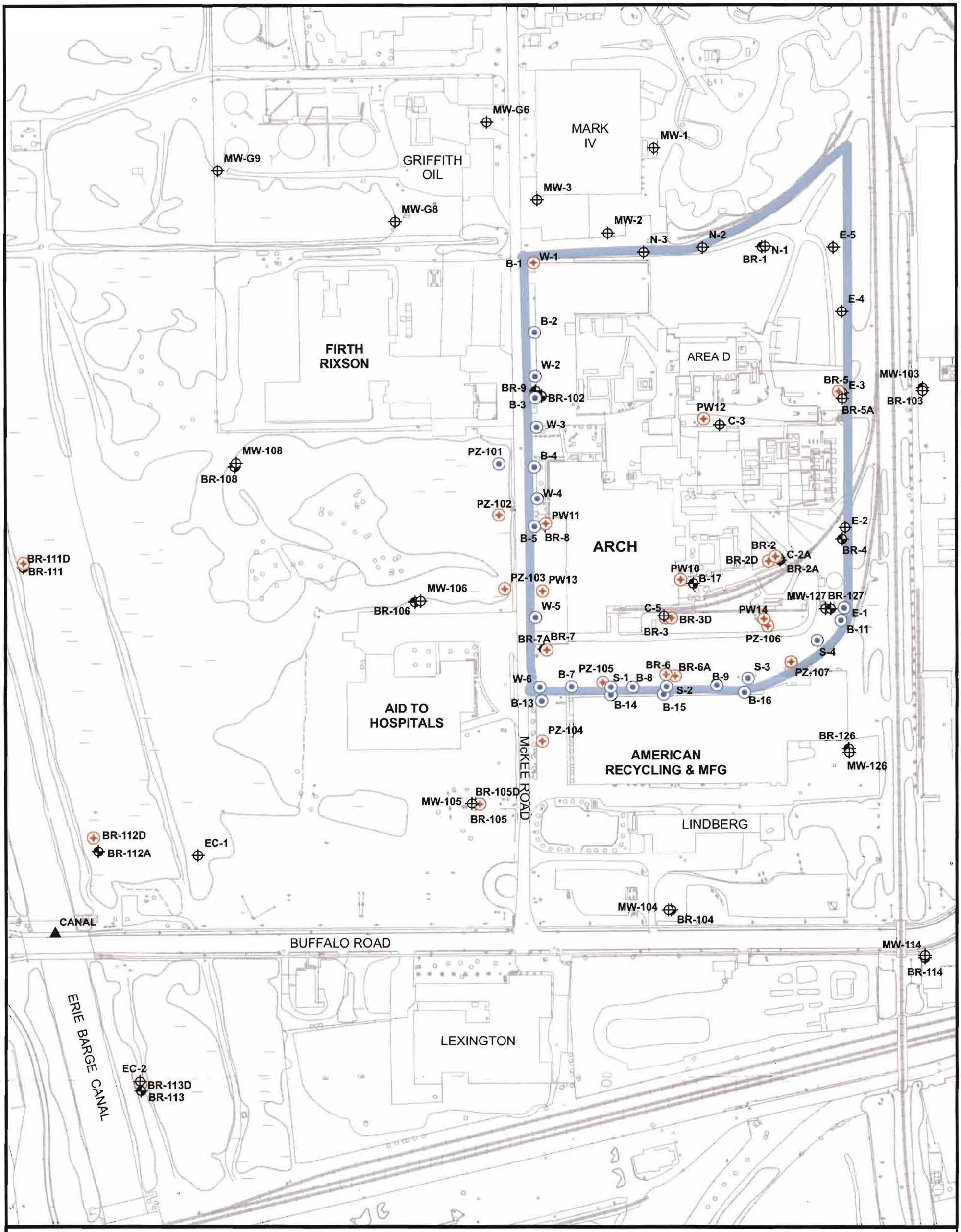

NOTES:

1. Off-Site Well Locations also Included on Figure 1

Legend

- Outline of Arch Property Boundary
- Overburden Piezometer / Pumping Well
- Bedrock Piezometer / Pumping Well / Deep Bedrock Monitoring Well
- Overburden Monitoring Well
- Bedrock Monitoring Well
- Surface Water Measurement Point

Prepared by JJW | Checked by NMB

Figure 2
Onsite Monitoring Well Locations

Arch Chemicals
Rochester, NY
MACTEC, Inc.

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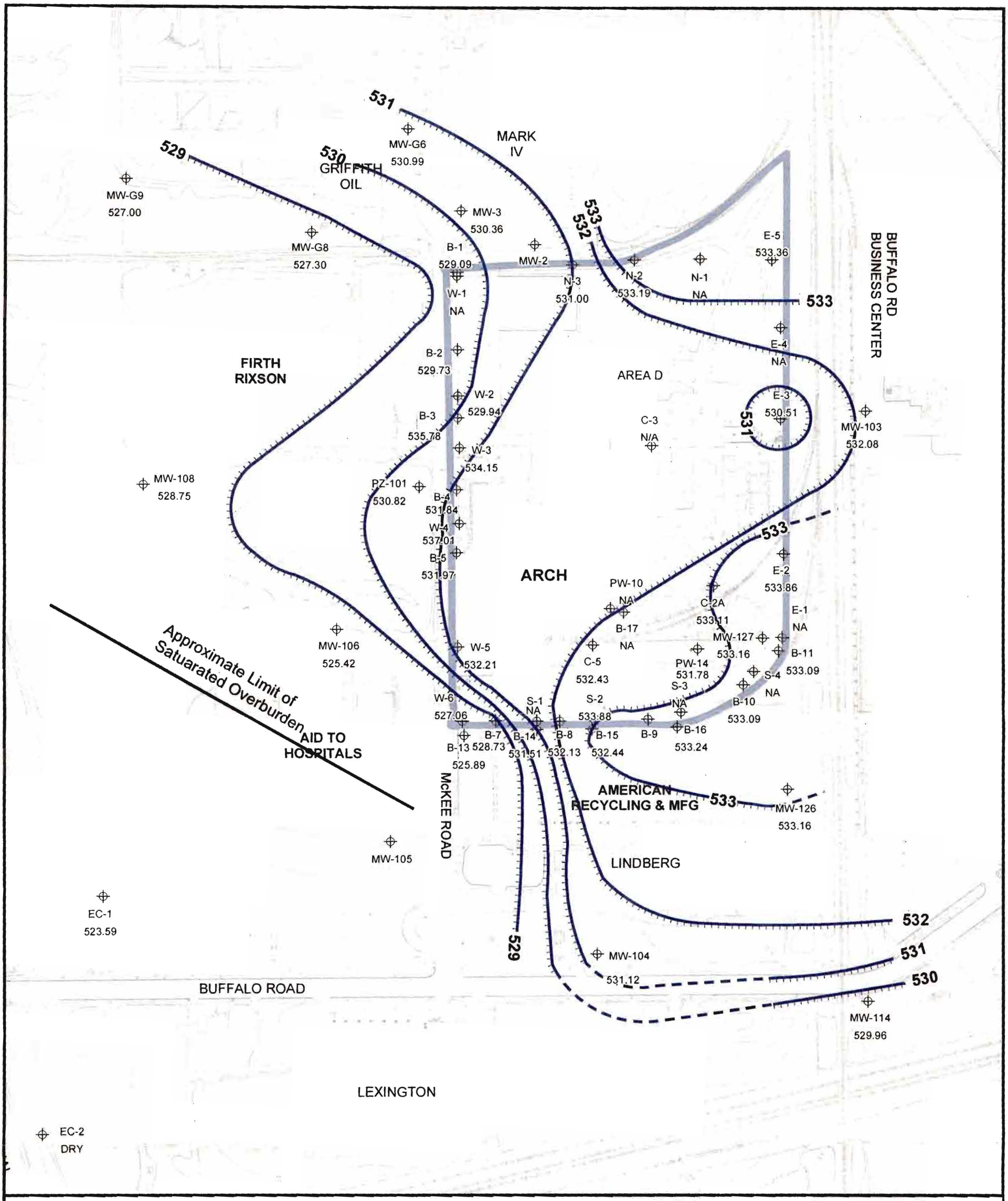

Legend

- Outline of Arch Property Boundary
- Interpreted Groundwater Flow Direction
- **528** — Overburden Piezometric Elevation Contour (MSL)
- MW-114 (528.76) — Piezometric Elevation at Well or Piezometer

Figure 3
Fall 2006
Overburden Groundwater
Interpreted Piezometric Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

NOTES:

1. Water Levels Measured on November 7, 2006
2. NA = Not Available
3. Dashed Contours Reflect Uncertainty
4. (<518.01) Reflects Bottom of Well Elevation, Well Observed Dry

N

0 100 200 400 Feet

Prepared by DBW | Checked by NMB

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Legend

- Outline of Arch Property Boundary
- 500 — Deep Bedrock Elevation Contour (MSL)
- Interpreted Groundwater Flow Direction
- ⊕ Bedrock Well ('D' Designates Deep Well)
- BR-116D (509.03) Piezometric Elevation at Deep Bedrock Well

NOTES

1. Water Levels Measured on November 7, 2006
2. Dashed Contours Reflect Uncertainty

N

0 250 500 1,000 Feet

Prepared by DBW | Checked by NMB

ERIE BARGE CANAL
I-390
BUFFALO ROAD
LETTINGTON DRIVE
FIRTH RIXSON
ARCH
BUFFALO RD. BUSINESS CENTER
AID TO HOSPITALS
ARM
CUMBERLAND FARMS PETROLEUM TERMINAL
LEXINGTON
GENERAL RAIL SIGNAL CO.
DOLOMITE PRODUCTS QUARRY
PFAUDLER

BR-9
BR-103
BR-108
BR-111D 511.81
BR-111
BR-2D 537.21
BR-3D 475.65
BR-106
BR-112D 511.86
BR-112
BR-105
BR-105D 511.96
BR-104
BR-114
BR-113
BR-113D 511.85
BR-122D 507.96
BR-117D 497.34
BR-117
BR-118
BR-118D 499.30
BR-121D Abandoned
BR-120D Abandoned
BR-119D Abandoned
BR-123D 508.80
BR-116D 509.99
BR-116
BR-124D 507.04

498 500 502 504 506 508 510

Figure 5
Fall 2006
Deep Bedrock Groundwater
Interpreted Piezometric Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

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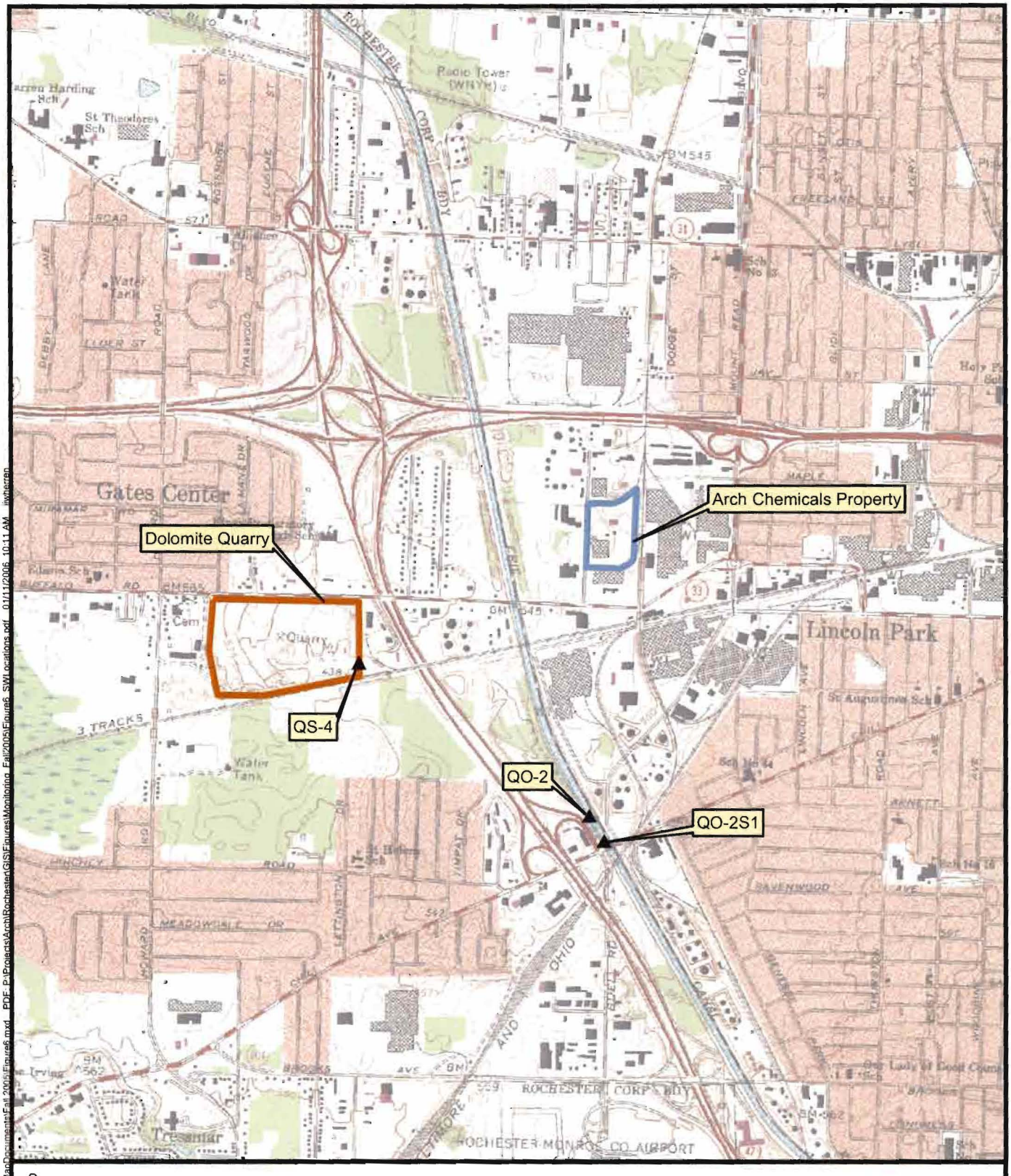

Source:
1:24,000 scale digital topographic map
obtained from New York State GIS
Clearinghouse at: www.nysgis.state.ny.us

N

0 0.25 0.5 Miles

Legend

- Arch Property Boundary
- Dolomite Quarry Boundary
- ▲ Surface Water Sample Location

Prepared by JJW | Checked by JEB

Figure 6
Sample Locations
Erie Barge Canal

Arch Chemicals
Rochester, New York
MACTEC, Inc.

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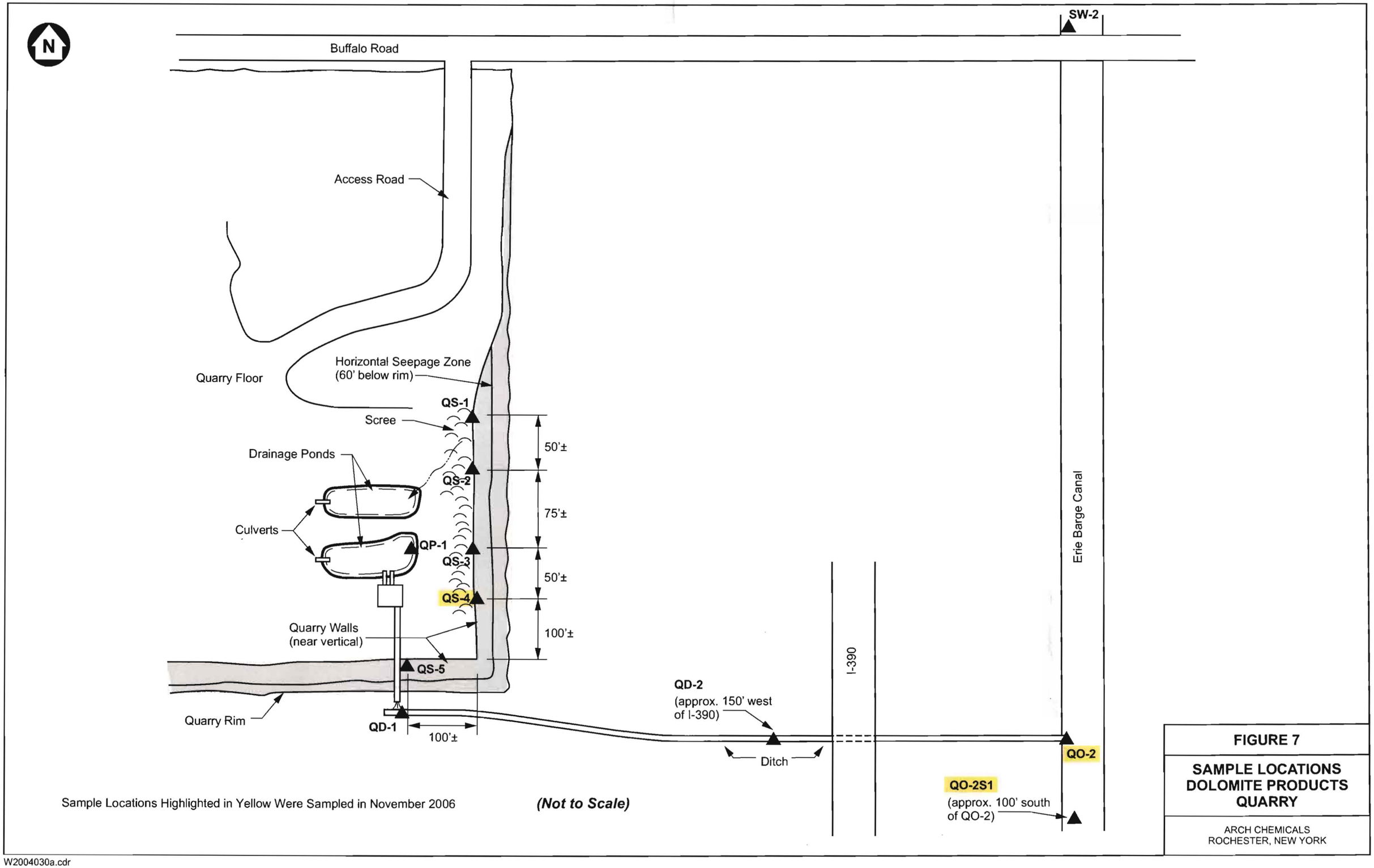
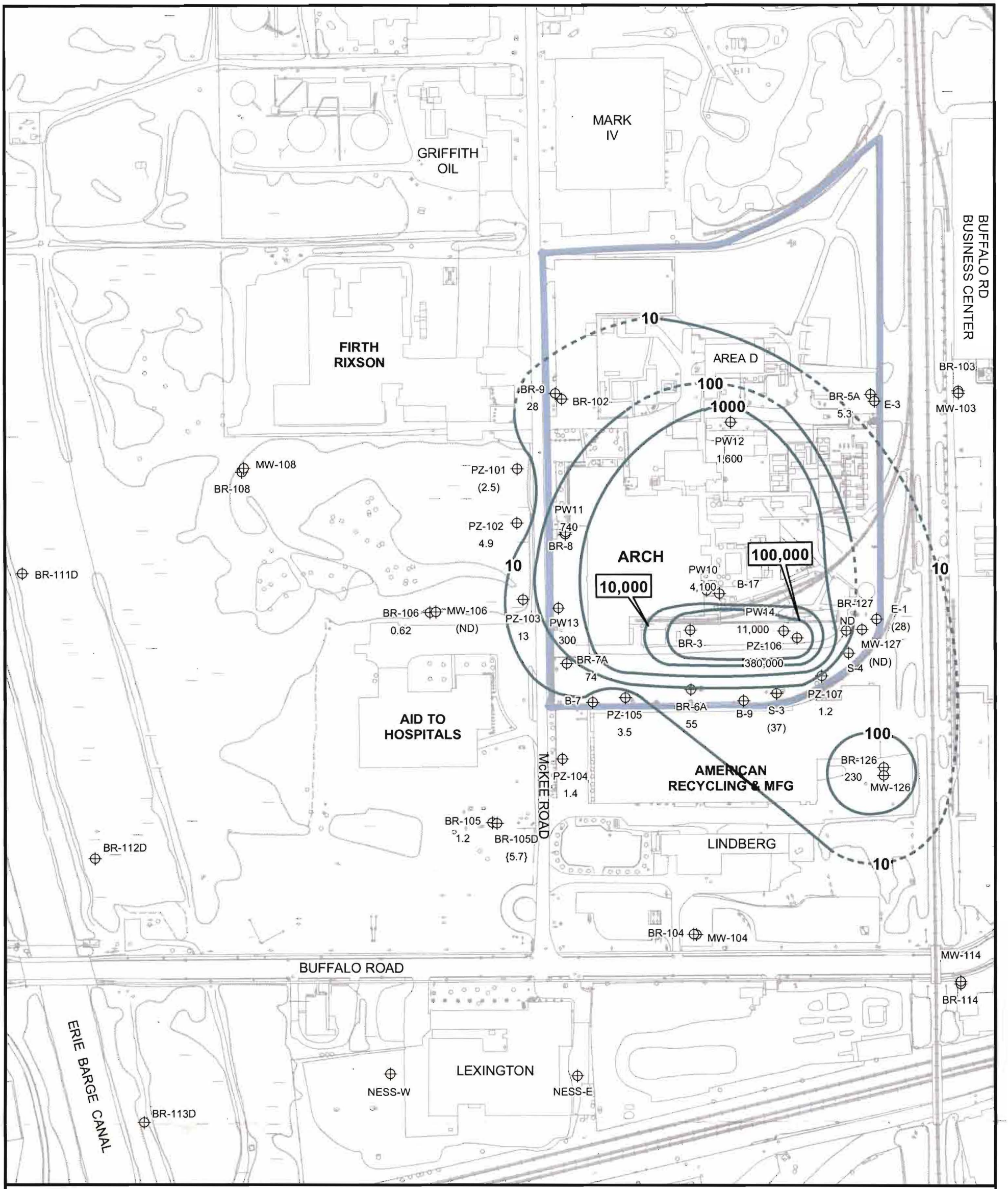


FIGURE 7

SAMPLE LOCATIONS
DOLOMITE PRODUCTS QUARRY

ARCH CHEMICALS
ROCHESTER, NEW YORK

W2004030a.cdr



Legend

- Outline of Arch Property Boundary
- 100 — VOC Concentration Contour
- BR-113D {NS} — Monitoring Location with Concentration
- {1000} Deep Bedrock Well
- (1000) Overburden Well
- 1000 Bedrock Well
- NS Not Sampled
- ND Not Detected

NOTES:

1. Samples Collected in November, 2006
2. Selected VOCs consist of Carbon tetrachloride, Methylene chloride Chloroform, TCE, and PCE.
3. Concentration contours represented for Bedrock Wells and selected Overburden and Deep Bedrock Wells.
4. Dashed concentration contours represent inferences from historical analytical results.

0 100 200 Feet

N

Prepared by DBW | Checked by NMB

Figure 9
Fall 2006
Selected Volatile Organic Compound Concentration Contours

Arch Chemicals
Rochester, NY
MACTEC, Inc.

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Tables

TABLE 1
FALL 2006 GROUNDWATER SAMPLING AND ANALYTICAL PROGRAM

ARCH CHEMICALS, INC
ROCHESTER, NEW YORK

			ANALYSIS	PYRIDINES	VOCs
SITE / AREA	WELL / POINT	DATE	QC TYPE		
AID TO HOSPITALS	BR-106	11/13/2006	Sample	X	X
	MW-106	11/13/2006	Sample	X	X
	PZ-101	11/10/2006	Sample	X	X
	PZ-102	11/10/2006	Sample	X	X
	PZ-103	11/10/2006	Sample	X	X
AMERICAN RECYCLE MANUF. (58 MCKEE ROAD)	BR-126	11/9/2006	Sample	X	X
	PZ-104	11/10/2006	Sample	X	X
ARCH ROCHESTER	BR-127	11/8/2006	Sample	X	X
	BR-5A	11/9/2006	Sample	X	X
	BR-6A	11/8/2006	Duplicate	X	X
	BR-6A	11/8/2006	Sample	X	X
	BR-7A	12/20/2006	Sample	X	X
	BR-9	12/20/2006	Sample	X	X
	E-1	11/8/2006	Sample	X	X
	MW-127	11/8/2006	Sample	X	X
	PW10	11/9/2006	Sample	X	X
	PW11	11/9/2006	Sample	X	X
	PW12	11/9/2006	Sample	X	X
	PW13	12/20/2006	Sample	X	X
	PW14	11/10/2006	Sample	X	X
	PZ-105	11/8/2006	Sample	X	X
	PZ-106	11/9/2006	Sample	X	X
	PZ-107	11/8/2006	Sample	X	X
	S-3	11/9/2006	Sample	X	X
	S-4	11/9/2006	Sample	X	X
DOLOMITE PRODUCTS, INC.	QS-4	11/7/2006	Sample	X	
ERIE BARGE CANAL(Samples in canal or property along canal)	QO-2	11/7/2006	Sample	X	
	QO-2S1	11/7/2006	Sample	X	
FORMER GENERAL CIRCUITS(Corner of Buffalo and Mt Read Blvd.)	MW-16	11/13/2006	Sample	X	
RG & E RIGHT OF WAY	BR-105	11/13/2006	Sample	X	X
	BR-105D	11/13/2006	Sample	X	X

TABLE 2
FALL 2006 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-105	BR-105D	BR-106	BR-126	BR-127	BR-5A	BR-6A	BR-6A	BR-7A	BR-9
SAMPLE DATE:	11/13/06	11/13/06	11/13/06	11/09/06	11/08/06	11/09/06	11/08/06	11/08/06	12/20/06	12/20/06
QC TYPE:	Sample	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample
BY SW-846 Method 8270C (µg/L)										
2,6-Dichloropyridine	81 J	44 J	960	490	330	53	290	250	7600	27
2-Chloropyridine	650	370	4500 D	2900 D	1100	130	220	200	27000	88
3-Chloropyridine	100 U	100 U	100 U	100 U	48 J	10 U	100 U	100 U	250 J	10 U
4-Chloropyridine	100 U	100 U	100 U	100 U	100 U	10 U	100 U	100 U	10 U	10 U
p-Fluoroaniline	100 U	100 U	84 J	100 U	100 U	23	100 U	100 U	200 J	4 J
Pyridine	250 U	250 U	250 U	250 U	250 U	21 J	250 U	250 U	2 J	24 U

Notes:

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

J = Estimated value.

TABLE 2
FALL 2006 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	E-1		MW-106		MW-127		MW-16		PW10		PW11		PW12		PW13		PW14		PZ-101	
SAMPLE DATE:	11/08/06		11/13/06		11/08/06		11/13/06		11/09/06		11/09/06		11/09/06		12/20/06		11/10/06		11/10/06	
QC TYPE:	Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample	
BY SW-846 Method 8270C (µg/L)																				
2,6-Dichloropyridine	1500		2300		1200		9	U	21000		650		1200		140	J	1600		50	
2-Chloropyridine	15000		5800		8800	D	3	J	260000	D	1900	D	1300	D	620		24000	D	300	D
3-Chloropyridine	1000	U	500	U	210		9	U	9000		18	J	86	J	10		330	J	9	U
4-Chloropyridine	1000	U	500	U	100	U	9	U	8900		63		100	U	10	U	500	U	9	U
p-Fluoroaniline	1000	U	140	J	100	U	9	U	2000	U	110		280		16		500	U	11	
Pyridine	2500	U	1200	U	250	U	24	U	25000	DJ	120	U	72	J	24	U	570	J	24	U

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

TABLE 2
FALL 2006 GROUNDWATER MONITORING RESULTS
CHLOROPYRIDINES

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PZ-102		PZ-103		PZ-104		PZ-105		PZ-106		PZ-107		S-3		S-4	
SAMPLE DATE:	11/10/06		11/10/06		11/10/06		11/08/06		11/09/06		11/08/06		11/09/06		11/09/06	
QC TYPE:	Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample	
BY SW-846 Method 8270C (µg/L)																
2,6-Dichloropyridine	260		1800		280		570		2000		820		1400		15	
2-Chloropyridine	810		4000	D	2000	D	3000		8400		3300	D	4800	D	6	J
3-Chloropyridine	100	U	250	U	100	U	500	U	1000	U	130		46	J	9	U
4-Chloropyridine	100	U	250	U	100	U	500	U	1000	U	100	U	100	U	9	U
p-Fluoroaniline	46	J	150	J	100	U	500	U	1000	U	100	U	100	U	9	U
Pyridine	250	U	620	U	250	U	1200	U	680	J	250	U	250	U	24	U

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

TABLE 3
FALL 2006 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	BR-105	BR-105D	BR-106	BR-126	BR-127	BR-5A	BR-6A	BR-6A	BR-7A	BR-9
SAMPLE DATE:	11/13/06	11/13/06	11/13/06	11/09/06	11/08/06	11/09/06	11/08/06	11/08/06	12/20/06	12/20/06
QC TYPE:	Sample	Sample	Sample	Sample	Sample	Sample	Duplicate	Sample	Sample	Sample
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)										
1,1,1-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	2.2 J
1,1,2,2-Tetrachloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
1,1,2-Trichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
1,1-Dichloroethane	0.93 J	3.1 J	1.1 J	5 U	5 U	5 U	5 U	5 U	3 J	15 J
1,1-Dichloroethene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	3 J
1,2,4-Trimethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
1,2-Dichloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	2.2 J	25 U
1,2-Dichloroethene (total)	93	11	1.2 J	1.2 J	3.2 J	16	66	67	5.5 J	320
1,2-Dichloropropane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
1,3,5-Trimethylbenzene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
2-Butanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	100 U	120 U
2-Hexanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	100 U	120 U
4-Methyl-2-pentanone	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	100 U	120 U
Acetone	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	100 U	120 U
Benzene	1.9 J	6	22	3.9 J	1.8 J	12	5 U	5 U	40	60
Bromodichloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Bromoform	5 U	5 U	5 U	4 J	5 U	5 U	5 U	5 U	20 U	25 U
Bromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Carbon disulfide	5 U	0.91 J	0.64 J	30	5 U	2.5 J	0.53 J	5 U	25	2.8 J
Carbon tetrachloride	5 U	5 U	5 U	82 D	5 U	5 U	3.8 J	4 J	4.5 J	25 U
Chlorobenzene	6.5	5 U	150 D	12	0.54 J	20	12	12	420	16 J
Chlorodibromomethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Chloroethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Chloroform	0.52 J	5.7	0.62 J	140 D	5 U	1.6 J	29	29	33	25 U
Chloromethane	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
cis-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Ethyl benzene	5 U	0.53 J	5 U	1 J	5 U	5 U	0.56 J	0.56 J	1.7 J	8.8 J
Methylene chloride	5 U	5 U	5 U	5 U	5 U	0.51 J	5 U	5 U	30	25 U
Styrene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Tetrachloroethene	5 U	5 U	5 U	3.2 J	5 U	5 U	16	16	3.2 J	25 U
Toluene	5 U	5 U	1.5 J	20	5 U	6.4	2.8 J	2.8 J	13 J	5.1 J
trans-1,3-Dichloropropene	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	20 U	25 U
Trichloroethene	0.69 J	5 U	5 U	5 U	5 U	3.2 J	5.9	6	3 J	2.8 J
Vinyl acetate	25 U	25 U	25 U	25 U	25 U	25 U	25 U	25 U	100 U	120 U
Vinyl chloride	31	2 J	1.2 J	0.68 J	5.4	5.6	0.9 J	0.83 J	4.9 J	150
Xylenes, Total	15 U	15 U	15 U	5.5 J	15 U	2 J	15 U	15 U	6.3 J	75 U

Notes:

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

J = Estimated value.

TABLE 3
FALL 2006 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	E-1		MW-106		MW-127		PW10		PW11		PW12		PW13		PW14		PZ-101		PZ-102	
SAMPLE DATE:	11/08/06		11/13/06		11/08/06		11/09/06		11/09/06		11/09/06		12/20/06		11/10/06		11/10/06		11/10/06	
QC TYPE:	Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample		Sample	
VOLATILE ORGANIC COMPOUNDS																				
BY SW-846 Method 8260/5ML (µg/L)																				
1,1,1-Trichloroethane	50	U	20	U	5	U	200	U	20	U	1000	U	2.8	J	500	U	5	U	25	U
1,1,2,2-Tetrachloroethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
1,1,2-Trichloroethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
1,1-Dichloroethane	50	U	20	U	5	U	200	U	3.6	J	1000	U	25		500	U	5	U	25	U
1,1-Dichloroethene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
1,2,4-Trimethylbenzene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
1,2-Dichloroethane	50	U	20	U	5	U	200	U	20	U	120	J	10	U	500	U	5	U	25	U
1,2-Dichloroethene (total)	20	J	40	U	10	U	400	U	54		2000	U	170		1000	U	10	U	50	U
1,2-Dichloropropane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
1,3,5-Trimethylbenzene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
2-Butanone	250	U	100	U	25	U	1000	U	100	U	5000	U	50	U	2500	U	25	U	120	U
2-Hexanone	250	U	100	U	25	U	1000	U	100	U	5000	U	50	U	2500	U	25	U	120	U
4-Methyl-2-pentanone	250	U	100	U	25	U	1000	U	100	U	5000	U	50	U	2500	U	25	U	120	U
Acetone	55	J	100	U	25	U	560	J	100	U	5000	U	50	U	2500	U	25	U	120	U
Benzene	6.4	J	39		0.74	J	200	U	29		1000	U	39		500	U	5.8		26	
Bromodichloromethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Bromoform	50	U	20	U	5	U	270		13	J	92	J	10	U	70	J	5	U	25	U
Bromomethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Carbon disulfide	50	U	20	U	5	U	130	J	150		200	J	1.4	J	380	J	1.8	J	25	U
Carbon tetrachloride	50	U	20	U	5	U	390		190		200	J	10	U	3100		1.8	J	25	U
Chlorobenzene	21	J	380		0.62	J	68	J	340		7800		20		500	U	51		270	
Chlorodibromomethane	50	U	20	U	5	U	23	J	20	U	1000	U	10	U	500	U	5	U	25	U
Chloroethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Chloroform	13	J	20	U	5	U	2600		530	D	860	J	240		6500		0.67	J	25	U
Chloromethane	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
cis-1,3-Dichloropropene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Ethyl benzene	50	U	20	U	0.86	J	200	U	5.4	J	710	J	2.9	J	500	U	5	U	25	U
Methylene chloride	15	J	20	U	5	U	790		8.6	J	520	J	42		460	J	5	U	4.9	J
Styrene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Tetrachloroethene	50	U	20	U	5	U	310		6.8	J	1000	U	9.4	J	440	J	5	U	25	U
Toluene	50	U	2.8	J	0.55	J	88	J	65		13000		5.8	J	110	J	0.81	J	25	U
trans-1,3-Dichloropropene	50	U	20	U	5	U	200	U	20	U	1000	U	10	U	500	U	5	U	25	U
Trichloroethene	50	U	20	U	5	U	49	J	20	U	1000	U	4.4	J	500	U	5	U	25	U
Vinyl acetate	250	U	100	U	25	U	1000	U	100	U	5000	U	50	U	2500	U	25	U	120	U
Vinyl chloride	13	J	20	U	5	U	200	U	40		1000	U	210		500	U	5	U	25	U
Xylenes, Total	150	U	60	U	15	U	600	U	17	J	4200		4.4	J	1500	U	15	U	75	U

Notes:

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

J = Estimated value.

TABLE 3
FALL 2006 GROUNDWATER MONITORING RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION:	PZ-103		PZ-104		PZ-105		PZ-106		PZ-107		S-3		S-4	
SAMPLE DATE:	11/10/06		11/10/06		11/08/06		11/09/06		11/08/06		11/09/06		11/09/06	
QC TYPE:	Sample		Sample		Sample		Sample		Sample		Sample		Sample	
VOLATILE ORGANIC COMPOUNDS BY SW-846 Method 8260/5ML (µg/L)														
1,1,1-Trichloroethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,1,2,2-Tetrachloroethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,1,2-Trichloroethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,1-Dichloroethane	50	U	5	U	20	U	2500	U	5	U	3	J	5	U
1,1-Dichloroethene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,2,4-Trimethylbenzene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,2-Dichloroethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,2-Dichloroethene (total)	100	U	1.8	J	40	U	5000	U	2.5	J	33		10	U
1,2-Dichloropropane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
1,3,5-Trimethylbenzene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
2-Butanone	250	U	25	U	100	U	12000	U	25	U	25	U	25	U
2-Hexanone	250	U	25	U	100	U	12000	U	25	U	25	U	25	U
4-Methyl-2-pentanone	250	U	25	U	100	U	12000	U	25	U	25	U	25	U
Acetone	250	U	25	U	13	J	12000	U	25	U	25	U	25	U
Benzene	59		2.8	J	3.3	J	2500	U	2.7	J	7.4		5	U
Bromodichloromethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Bromoform	50	U	5	U	20	U	6900		5	U	5	U	5	U
Bromomethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Carbon disulfide	7	J	2.1	J	20	U	69000	D	0.51	J	5	U	5	U
Carbon tetrachloride	50	U	1.4	J	20	U	76000	D	5	U	0.75	J	5	U
Chlorobenzene	870	J	9.8		36		2500	U	2.3	J	28		5	U
Chlorodibromomethane	50	U	5	U	20	U	700	J	5	U	5	U	5	U
Chloroethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Chloroform	50	U	5	U	20	U	300000	D	5	U	31		5	U
Chloromethane	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
cis-1,3-Dichloropropene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Ethyl benzene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Methylene chloride	13	J	5	U	3.5	J	5500		5	U	3.8	J	5	U
Styrene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Tetrachloroethene	50	U	5	U	20	U	2000	J	5	U	0.97	J	5	U
Toluene	17	J	0.67	J	20	U	2500	U	5	U	1.6	J	5	U
trans-1,3-Dichloropropene	50	U	5	U	20	U	2500	U	5	U	5	U	5	U
Trichloroethene	50	U	5	U	20	U	2500	U	1.2	J	0.92	J	5	U
Vinyl acetate	250	U	25	U	100	U	12000	U	25	U	25	U	25	U
Vinyl chloride	50	U	0.51	J	20	U	2500	U	1.1	J	15		5	U
Xylenes, Total	150	U	15	U	60	U	7500	U	15	U	15	U	15	U

Notes:

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

J = Estimated value.

TABLE 4
COMPARISON OF FALL 2006
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - FEBRUARY 2007

WELL	SELECTED CHLOROPYRIDINES				SELECTED VOCs			
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2006 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2006 RESULT
ON-SITE WELLS/LOCATIONS								
B-17	5	28,000,000	150,000		5	345,000	25,000	
B-7	5	9,100	2,700		5	256	51	
BR-127	4	4,700	3,100	1,478	4	3	2	ND
BR-3	5	6,500,000	75,000		5	920,000	520,000	
BR-5A	10	1,700	580	227	10	9,400	91	5.31
BR-6A	10	144,500	30,000	450	10	26,000	5,600	55
BR-7A	10	510,000	15,000	**35,052**	10	3,000	290	73.7
BR-8	5	57,000	900		5	6,900	5.2	
BR-9	10	720	210	119	10	160	19	**27.8**
E-1	9	171,680	50,000	16,500	9	5,300	66	28
E-3	5	600	100		5	12,000	100	
MW-127	4	15,000	4,700	**10,210**	4	180	45	ND
PW10	10	244,000	90,000	**323,900**	10	120,000	22,000	4139
PW11	10	27,000	1,800	**2,741**	11	30,000	6,500	735.4
PW12	10	15,000	3,600	2,938	10	120,000	2,700	1580
PW13	4	7,500	2,500	786	4	920	270	**295.8**
PW14	3	29,000	19,000	**26,500**	3	160,000	71000	10500
PZ-105	6	190,000	7,900	3,570	6	9,700	1,000	3.5
PZ-106	6	124,000	51,000	11,080	6	1,359,000	850,000	383500
PZ-107	10	11,000	2,900	**4,250**	10	12,000	270	1.2
S-3	9	21,000	8,000	6,246	9	2,500	370	37.44
S-4	9	3,200	210	21	9	870	99	ND
OFF-SITE WELLS/LOCATIONS								
BR-103	5	400	0.6		5	3	0.54	
BR-104	5	3,100	1.2		0	9	NA	
BR-105	10	24,000	1,300	731	10	310	3.8	1.21
BR-105D	10	10,000	1,900	414	10	230	5.4	**5.7**
BR-106	10	24,600	6,900	5,544	11	6,300	330	0.62
BR-108	5	1,700	26		0	ND	NA	
BR-112D	5	310	26		0	4.3	NA	
BR-113D	5	490	40			2.8		
BR-114	5	521	330		5	12	0.73	
BR-116	5	12	0.0			84		
BR-116D	5	710	13			120		
BR-117D	5	80	17			1.9		
BR-118D	5	330	100			6.6		
BR-122D	5	650	140			ND		
BR-123D	5	860	130			4		
BR-126	2	NA	5700	3,390	3	NA	110	**225.2**
MW-103	5	82	5.2		5	ND	150	
MW-104	5	180	1.6		0	1	NA	

TABLE 4
COMPARISON OF FALL 2006
CHLOROPYRIDINES AND VOLATILE ORGANICS CONCENTRATIONS
IN GROUNDWATER TO PREVIOUS RESULTS (ug/L)

ARCH ROCHESTER
SEMI-ANNUAL GROUNDWATER MONITORING REPORT - FEBRUARY 2007

WELL	SELECTED CHLOROPYRIDINES				SELECTED VOCs			
	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2006 RESULT	# EVENTS IN PRIOR 5 YRS	HISTORIC MAXIMUM	5-YEAR MEAN	NOV-2006 RESULT
MW-106	10	130,000	9,500	8,240	10	453	46	ND
MW-114	5	18	0.4		5	19	16	
MW-126	1	NA	63		1	NA	ND	
MW-16	5	360	180	3	1	NA	8.0	
NESS-E	5	5,000	310		0	700	NA	
NESS-W	5	2,100	130		0	89	NA	
PZ-101	10	27,000	1,100	361	10	6.1	0.77	**2.47**
PZ-102	10	58,000	3,800	1,116	10	10,000	2.2	**4.9**
PZ-103	10	73,000	12,000	5,950	11	44,300	7,200	13
PZ-104	10	9,100	4,000	2,280	10	40	1.1	1.4
QD-1	5	ND	2		2	ND	ND	
QO-2	11	380	2.2	**4**	7	ND	ND	
QO-2S1	11	27	0.05	0	7	ND	ND	
QS-4	14	3,400	250	240	9	ND	ND	

Note:

1) Number of samples and mean reflect 5-year sampling period from November 2001 through June 2006. Historic maximum based on all available results from March 1990 through May 2006.
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 2006 exceeds 5-year mean.
5) NA = Not analyzed or not applicable
   ND = Not detected
   BLANK = Not sampled

TABLE 5
FALL 2006 QUARRY SEEP AND OUTFALL WATER SAMPLE RESULTS
VOLATILE ORGANIC COMPOUNDS

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

LOCATION	QS-4		QO-2		QO-2S1	
DATE	11/7/2006		11/7/2006		11/7/2006	
SAMPLE ID	Sample		Sample		Sample	
SELECTED CHLOROPYRIDINES BY SW-846 Method 8270C (µg/L)						
2,6-Dichloropyridine	50		2	J	9	U
2-Chloropyridine	190	D	2	J	9	U
3-Chloropyridine	9	U	10	U	9	U
4-Chloropyridine	9	U	10	U	9	U
p-Fluoroaniline	9	U	10	U	9	U
Pyridine	24	U	25	U	24	U

Notes:

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

J = Estimated value.

TABLE 6
EXTRACTION WELL WEEKLY FLOW MEASUREMENTS - JUNE 2006 THROUGH NOVEMBER 2006

ARCH CHEMICALS, INC.
ROCHESTER, NEW YORK

Week Ending	BR-5A [Gal./Wk.]	BR-7A [Gal./Wk.]	BR-9 [Gal./Wk.]	PW-10 [Gal./Wk.]	PW-11 [Gal./Wk.]	PW-13 [Gal./Wk.]	PW-14 [Gal./Wk.]	Total [Gal.]
Jun '06								
06/06/06	26,001	80,618	94,437	5,343	4,278	78,300 *	14,986	303,963
06/13/06	28,588	90,189	109,749	5,415	3,529	78,300 *	16,712	332,482
06/20/06	22,750	82,345	102,309	3,743	8,340	78,300 *	18,461	316,248
06/27/06	24,744	84,801	109,316	3,128	7,772	78,300 *	14,868	322,929
							Total [Gal.]	1,275,622
Jul '06								
07/04/06	20,577	82,019	99,188	2,723	5,700 *	78,300 *	5,204	293,711
07/11/06	45,061	97,875	59,177	2,191	3,730	78,300 *	5,208	291,542
07/18/06	12,881	85,370	56,276	8,858	6,029	78,300 *	3,552	251,266
07/25/06	0 **	94,218	65,497	8,794	6,197	78,300 *	4,777	257,783
							Total [Gal.]	1,094,302
Aug '06								
08/01/06	0 **	84,139	60,153	8,710	3,788	79,259	3,237	239,286
08/08/06	29,225	80,747	51,476	8,309	0 **	77,254	3,029	250,040
08/15/06	54,249	34,927 **	76,066	7,722	0 **	14,714 **	1,449 **	189,127
08/22/06	44,408	86,883	77,600 *	3,672	0 **	27,704 **	7,726	247,993
08/29/06	37,911	97,563	79,098	1,225	0 **	86,308	5,082	307,187
							Total [Gal.]	1,233,633
Sep '06								
09/05/06	42,300	95,609	67,961	449	0 **	87,812	3,031	297,162
09/12/06	51,019	98,078	78,005	202	0 **	92,721	3,076	323,101
09/19/06	52,982	93,848	78,466	181	0 **	88,155	3,309	316,941
09/26/06	44,898	88,958	78,166	2,822	16,417	89,917	2,819	323,997
							Total [Gal.]	1,261,201
Oct '06								
10/03/06	46,233	80,650	62,582	6,654	19,102	84,420	2,226	301,867
10/10/06	49,954	97,656	56,193	2,160	24,051	84,230	3,056	317,300
10/17/06	53,944	90,736	56,519	129	43,115	90,043	1,698	336,184
10/24/06	51,637	90,000 *	51,475	419	32,812	82,207	278 **	308,828
10/31/06	51,714	90,000 *	55,289	0 **	46,336	88,378	369 **	332,086
							Total [Gal.]	1,596,265
Nov. '06								
11/07/06	17,530	90,000 *	15,784	0 **	13,557	45,618 **	385 **	182,874
11/14/06	29,659	0 **	0 **	0 **	0 **	0 **	193 **	29,852
11/21/06	34,106	41,519	0 **	0 **	22,918	9,399 **	705 **	108,647
11/28/06	50,768	38,435	0 **	0 **	39,325	0 **	2,200	130,728
							Total [Gal.]	452,101
Total 6 Mo. Removal (Gal.)	923,139	2,077,183	1,640,782	82,849	306,996	1,754,539	127,636	6,913,124

Notes:
1) * - Flow rate is estimated due to a meter failure
2) ** - Not operating (or operating at reduced rate) due to pump failure or sewer line repairs

TABLE 7

MASS REMOVAL SUMMARY
PERIOD: JUNE 2006 - NOVEMBER 2006

ARCH ROCHESTER
FALL 2006 GROUNDWATER MONITORING REPORT

Well	Total Vol. Pumped (gallons)	Avg. VOC Conc. (ppm)	Avg. PYR. Conc. (ppm)	VOCs Removed (pounds)	PYR. Removed (pounds)
BR-5A	923,000	0.031	0.32	0.23	2.5
BR-7A	2,077,000	0.263	19.0	4.5	329
BR-9	1,641,000	0.019	0.12	0.25	1.6
PW-10	83,000	20	182	14	126
PW-11	307,000	0.390	1.8	1.0	4.6
PW-13	1,755,000	0.221	0.7	3.2	11
PW-14	128,000	23.0	16	25	17
Totals:	6,914,000			48	492

Note: VOC and pyridine concentrations used in this table are an average of the analytical results from the Spring 2006 and Fall 2006 sampling events for each well

Appendix A

Groundwater Field Sampling Data Sheets

SEVERN TRENT STL

FIELD REPORT

REMEDIAL INVESTIGATION SAMPLING
ARCH CHEMICAL
ROCHESTER, NEW YORK

FALL 2006 Event

Prepared For:

MacTec, Inc.
511 Congress Street
Portland, Maine 04112-7050

Attention: Mr. Nelson Breton

Prepared By:

SEVERN TRENT LABORATORIES, INC.
Audubon Business Center
10 Hazelwood Drive
Amherst, New York 14228-2298

NY5A5762

Written By: Roger Senf

Reviewed By:

Date: 1-08-07

1.0 INTRODUCTION

This report describes the sampling of the following points:

- Thirty (30) groundwater samples
- One (1) canal sample
- One (1) quarry outfall sample
- One (1) quarry seep/pond samples

These activities were in support of the Phase II Remediation Investigation being conducted at the Arch Chemical facility in Rochester, New York. The samples were collected from November 07 – December 20, 2006 by Severn Trent Laboratories, Inc. (STL) personnel.

2.0 METHODOLOGIES

2.1 Water Level Measurements

Static water levels in all groundwater wells were measured from the top of the well casing/riser with an electronic water level indicator. All well bottoms were sounded with the weighted steel measuring tape. All measurements were recorded to the nearest hundredth of a foot (0.01 feet). The length of the measuring device which contacted the water was cleaned between wells with a deionized water rinse and paper towel wipe. These data are presented on Sampling Summary Table and Field Observation forms.

2.2 Well Purging

Monitoring wells were evacuated prior to sampling employing one of the following methods:

1) Purging three (3) times the standing water volume using precleaned or dedicated 1.25" X 5' stainless steel bailers, 2" X 5' polyvinyl chloride bailers, peristaltic pump or QED Low-Flow Bladder pumps.
2) Evacuated with the low flow/low stress puring technique using either QED Low-Flow Bladder pumps or a variable rate peristaltic pump.

   Wells that were purged of three (3) standing volumes were mainly wells located on or very near the Erie Canal and historically purged with this method prior to sampling. The remaining wells were evacuated with a low flow/low stress purging technique. This technique involves the use of a variable flow rate bladder or peristaltic pump. The pumps were employed to purge the monitoring wells at a flow rate such that drawdown of the water column from static conditions is minimal. Field measurements of pH, specific

conductance, temperature, ORP, dissolved oxygen and turbidity are monitored every 3-5 minutes until stabilization of parameters is realized. Once stabilization has occurred, sampling can be conducted. All purged water was collected into 55-gallon drums for disposal at the on-site wastewater treatment facility. Data pertaining to each evacuation are presented on the Sampling Summary Table and field Observation Forms.

2.3 Surface Water Samples

Surface water samples were collected from one (1) location on the Erie Barge Canal, one (1) outfall samples and one (1) seep sample. Sample locations were noted on the Field Forms.

3.0 SAMPLING

3.1 Monitoring Wells

All groundwater wells were sampled using precleaned or dedicated 1.25" X 1.25" X 5' stainless steel bailers, perisaltic pumps or bladder (SamplePro) pumps when low flow purging techniques were used. Each bailer was constructed with teflon, bottom-filling check valve and was assembled without glues or welds. New ¼" poly rope was attached to each bailer. The bailer was slowly lowered into the water column, minimizing agitation and devolatilization. Low density polyethylene (LDPE) tubing was used with both the bladder (QED) and the peristaltic pumps. The bladder pumps were decontaminated between sample locations in accordance with the work plan. Personnel exercised care in all aspects of the sampling to ensure the collection of a representative sample An additional sample container was collected from each well in order to facilitate the measurement of field analytical parameters. Data pertaining to sampling are presented on the Sampling Summary Table and the Field Observation Forms.

3.2 Canal Sampling

When possible, samples were collected directly from the canal into appropriate sample containers. Otherwise, samples were collected with the use of a unique, laboratory-cleaned stainless steel bailer. The bailers were immersed just below the surface and removed. Sample was poured directly into the appropriate container. An additional container was collected to facilitate the measurement of field parameters. Additional data pertaining to these samples is presented in the Sampling Summary Table and Field Observation Forms.

3.3 Seep Sampling

Groundwater samples were collected from seeps at the quarry (QS4) located on Buffalo Road. The samples were collected with the use of a laboratory cleaned stainless steel bucket

and was then poured directly into the appropriate containers. An additional container was collected to facilitate the measurement of field parameters. Data pertaining to this sampling is presented in the Sampling Summary Table and Field Observation Forms.

4.0 SAMPLE CONTAINERS

Monitoring wells and surface water samples requiring analysis for volatile organics were collected into 40 ml glass vials with teflon septa. Samples for semi-volatile and Pyridine analysis were collected into one (1) liter amber glass bottles with teflon-lined caps. All bottles were purchased new and cleaned (Protocol A, 300 series) from Environmental Supply Services. Each container was labeled with the following information:

- Sample Identification (Well/Point I.D.)
- Date
- Project Number
- Sampler's Initials

5.0 FIELD MEASUREMENTS

On-site field measurements were made of each sample's pH, specific conductance and temperature. All measurements were made in accordance with protocols outlined in Methods for Chemical Analysis of Water and Wastes (EPA – 600/4-79-9020). These data were presented on the Sampling Summary Table and Field Observation Forms.

6.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC)

6.1 Trip Blanks

Trip blanks were collected with each sample shipment requiring volatile organic analysis. Each trip blank consisted of two 40 ml glass vials with teflon septa which were filled with deionized water at the STL laboratory. These blanks were transported to the site, stored with field collected samples and submitted to the STL facility for analysis.

6.2 Equipment Rinse Blank

Equipment rinse blanks were collected as required by the work plan.

7.0 CHAIN OF CUSTODY

Chain of custody was initiated at the time of sample collection and maintained through delivery to the STL facility in Amherst, New York. Copies of these documents are included in the analytical report package.

Sampling Summary Table
MacTec,
NOVEMBER 06
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	Water Level Date	Water Level Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Field Measurements Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements
-105	11/13/2006	1200	21.82	N/A	N/A	11/13/2006	1230	7.20	1913	11.4	1.93	EH(mv)= -169 DO(ppm)= 1.79
	Comments: CLEAR											
-105D	11/13/2006	1202	25.63	N/A	N/A	11/13/2006	1235	6.65	20840	11.6	1.09	EH(mv)= -287 DO(ppm)= 0.64
	Comments: CLEAR BLACK TINT											
-106	11/13/2006	1105	22.23	N/A	N/A	11/13/2006	1130	6.76	3675	11.9	41.90	EH(mv)= -155 DO(ppm)= 0.80
	Comments: CLEAR											
-126	11/09/2006	1313	7.02	N/A	N/A	11/09/2006	1340	7.43	1488	16.1	22.30	EH(mv)= -119 DO(ppm)= 0.87
	Comments: ORANGE TINT											
-127	11/08/2006	1008	2.90	N/A	N/A	11/08/2006	1040	7.99	1195	13.7	14.83	EH(mv)= -155 DO(ppm)= 1.04
	Comments: CLEAR WITH BLACK SPECKS											
-5A	11/09/2006	1228	30.93	N/A	N/A	11/09/2006	1230	7.59	1360	15.4	61.90	EH(mv)= -70
	Comments: TURBID ORANGE TINT											
-6A	11/08/2006	1221	8.94	N/A	N/A	11/08/2006	1245	8.08	234	16.0	27.10	EH(mv)= -74 DO(ppm)= 1.21
	Comments: YELLOW TINT											
-6A	11/08/2006	1221	8.94	N/A	N/A	11/08/2006	1245	8.07	233	16.0	26.80	EH(mv)= -75 DO(ppm)= 1.22
	Comments: YELLOW TINT/FIELD DUP											
-7A	12/20/2006	1200	34.07	N/A	N/A	12/20/2006	1203	7.43	3798	14.6	28.90	EH(mv)= -200
	Comments: CLEAR WITH BLACK SPECKS											
-9	12/20/2006	1150	24.93	N/A	N/A	12/20/2006	1152	7.17	2686	15.7	26.50	EH(mv)= -109
	Comments: CLEAR WITH BLACK/ORANGE SPECKS											
1	11/08/2006	1056	0.64	N/A	N/A	11/08/2006	1120	9.15	7910	10.9	37.90	EH(mv)= -202 DO(ppm)= 0.91
	Comments: GREY TINT											
-106	11/13/2006	1110	10.15	N/A	N/A	11/13/2006	1135	6.72	3746	12.3	3.47	EH(mv)= -173 DO(ppm)= 2.07
	Comments: CLEAR											
-127	11/08/2006	936	3.62	N/A	N/A	11/08/2006	1005	7.69	4831	13.1	2.89	EH(mv)= -126 DO(ppm)= 0.94
	Comments: CLEAR											
-16	11/13/2006	1020	10.62	N/A	N/A	11/13/2006	1050	6.78	2355	15.4	27.20	EH(mv)= -7 DO(ppm)= 0.85
	Comments: CLEAR											
-10	11/09/2006	1242	0.00	N/A	N/A	11/09/2006	1245	9.48	12330	46.0	26.40	EH(mv)= -205
	Comments: SL.TURBID AMBER											
-11	11/09/2006	1302	25.08	N/A	N/A	11/09/2006	1305	7.52	7747	16.1	31.60	EH(mv)= -56
	Comments: CLEAR BLACK SPECKS SLIGHT SHEEN											

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

Sampling Summary Table
MacTec,
NOVEMBER 2006
RI SAMPLING/ROCHESTER NY FACILITY

Sample Point	—Water Level— Date	Time	Water Level (ft)*	Water Elevation (ft)**	Bottom Of Well (ft)*	Field Measurements Date	Time	pH (STD) (Units)	Spec. Cond. (umhos)	Temp (°C)	Turb. (NTU)	Other Field Measurements	
-12(BR-101)	11/09/2006	1153	5.38	N/A	N/A	11/09/2006	1215	7.18	2713	16.0	3.04	EH(mv)= -122	
	Comments: CLEAR												
-13	12/20/2006	1215	22.13	N/A	N/A	12/20/2006	1217	7.18	3067	14.1	7.80	EH(mv)= -209	
	Comments: CLEAR												
-14	11/10/2006	1000	9.93	N/A	N/A	11/10/2006	1004	9.18	3613	11.0	3.94	EH(mv)= -149	
	Comments: CLEAR AMBER												
-101	11/10/2006	1040	12.59	N/A	N/A	11/10/2006	1115	6.96	7398	12.5	3.56	EH(mv)= 7	DO(ppm)= 1.43
	Comments: CLEAR												
-102	11/10/2006	1128	12.06	N/A	N/A	11/10/2006	1155	7.30	6941	12.4	2.41	EH(mv)= -87	DO(ppm)= 0.86
	Comments: CLEAR												
-103	11/10/2006	1213	10.73	N/A	N/A	11/10/2006	1235	7.16	6383	13.1	2.90	EH(mv)= -148	DO(ppm)= 0.95
	Comments: CLEAR												
-104	11/10/2006	1250	12.52	N/A	N/A	11/10/2006	1315	7.26	1647	16.0	3.58	EH(mv)= -117	DO(ppm)= 0.90
	Comments: CLEAR												
-105	11/08/2006	1131	6.58	N/A	N/A	11/08/2006	1205	7.49	1862	14.3	511.00	EH(mv)= -90	DO(ppm)= 1.07
	Comments: TURBID BROWN												
-106	11/09/2006	1113	8.91	N/A	N/A	11/09/2006	1135	6.86	5352	14.9	7.87	EH(mv)= -101	DO(ppm)= 0.91
	Comments: YELLOW TINT												
-107	11/08/2006	1304	5.24	N/A	N/A	11/08/2006	1330	7.67	2051	14.5	2.57	EH(mv)= -121	DO(ppm)= 0.88
	Comments: CLEAR												
-2	11/07/2006	1330	0.00	N/A	N/A	11/07/2006	1335	7.75	1545	11.3	8.73	EH(mv)= 58	
	Comments: CLEAR												
-2S1	11/07/2006	1325	0.00	N/A	N/A	11/07/2006	1325	7.92	497	6.9	12.20	EH(mv)= 47	
	Comments: CLEAR												
-4	11/07/2006	1305	0.00	N/A	N/A	11/07/2006	1310	7.72	1553	10.9	7.76	EH(mv)= 35	
	Comments: CLEAR												
3	11/09/2006	954	0.88	N/A	N/A	11/09/2006	1020	7.53	2357	11.5	12.21	EH(mv)= -23	DO(ppm)= 1.07
	Comments: CLEAR BLACK SPECKS												
4	11/09/2006	1031	0.69	N/A	N/A	11/09/2006	1100	8.19	456	11.9	4.82	EH(mv)= 56	DO(ppm)= 1.12
	Comments: CLEAR												

SG - Specific Gravity
EH - Redox
DO - Dissolved Oxygen

* From Top of Riser
** Elevation Above Sea Level

SEMI-ANNUAL GROUNDWATER ELEVATION REPORT
ARCH CHEMICAL ROCHESTER, N.Y.

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME	Comments
B-1	11/07/06	8.66		-8.66	1209	NO L-NAPL ; NO D-NAPL
B-10		5.71		-5.71	1114	NO L-NAPL ; NO D-NAPL
B-11		2.91		-2.91	1116	NO L-NAPL
B-13		11.18		-11.18	1246	
B-14		6.44		-6.44	1249	
B-15		2.85		-2.85	1251	
B-16		2.97		-2.97	1253	
B-17				0.00		NO L-NAPL ; NO D-NAPL
B-2		9.29		-9.29	1207	NO L-NAPL ; NO D-NAPL
B-3		6.03		-6.03	1159	NO L-NAPL ; NO D-NAPL
B-4		11.03		-11.03	1218	NO L-NAPL ; NO D-NAPL
B-5		8.24		-8.24	1226	NO L-NAPL ; NO D-NAPL
B-7		12.38		-12.38	1230	NO L-NAPL ; NO D-NAPL
B-8		6.75		-6.75	1055	NO L-NAPL ; NO D-NAPL
BR-1		7.52		-7.52	1148	NO L-NAPL ; NO D-NAPL
BR-102		22.38		-22.38	1200	
BR-103		5.22		-5.22	1215	
MW-103		1.17		-1.17	1217	
BR-104		9.27		-9.27	1226	
MW-104		6.42		-6.42	1228	
BR-105		21.62		-21.62	1108	
BR-105D		24.53		-24.53	1110	
MW-105		18.74		-18.74	1107	
BR-106		21.32		-21.32	1052	
MW-106		10.02		-10.02	1056	
BR-108		27.97		-27.97	1120	
MW-108		11.94		-11.94	1119	
BR-111		28.49		-28.49	1127	
BR-111D		28.53		-28.53	1129	
BR-112A		27.11		-27.11	1139	
BR-112D		36.05		-36.05	1142	
BR-113		30.97		-30.97	1159	

SEMI-ANNUAL GROUNDWATER ELEVATION REPORT
ARCH CHEMICAL ROCHESTER, N.Y.

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME	Comments
BR-113D	11/07/06	31.08		-31.08	1157	
BR-114		12.73		-12.73	1223	
MW-114		9.73		-9.73	1220	
BR-116		27.92		-27.92	1150	
BR-116D		35.23		-35.23	1155	
BR-117		23.15		-23.15	1107	
BR-117D		49.82		-49.82	1109	
BR-118		36.59		-36.59	1114	
BR-118D		48.63		-48.63	1115	
BR-122D		44.38		-44.38	1125	
BR-123D		44.82		-44.82	1120	
BR-124D		30.41		-30.41	1130	
BR-126		7.08		-7.08	1210	
MW-126						NOT LOCATED
BR-127		2.89			1118	NO L-NAPL ; NO D-NAPL
MW-127		3.71			1119	NO L-NAPL ; NO D-NAPL
BR-2		6.43		-6.43	1126	NO L-NAPL ; NO D-NAPL
BR-2A		7.19		-7.19	1125	NO L-NAPL ; NO D-NAPL
BR-2D		0.05		-0.05	1128	NO L-NAPL ; NO D-NAPL
BR-3		7.43		-7.43	1107	NO L-NAPL
BR-3D		62.02		-62.02	1103	NO L-NAPL ; NO D-NAPL
BR-4		6.43		-6.43	1121	NO L-NAPL
BR-5		15.61			1141	NO L-NAPL ; NO D-NAPL
BR-5A		27.06		-27.06	1140	2.00 GPM
BR-6		10.31		-10.31	1100	NO L-NAPL ; NO D-NAPL
BR-6A		8.97		-8.97	1057	
BR-7		24.79		-24.79	1235	
BR-7A		20.11		-20.11	1234	NO L-NAPL ; NO D-NAPL
BR-8		8.11		-8.11	1224	NO L-NAPL ; NO D-NAPL
BR-9		24.73		-24.73	12	0.00 GPM
C-2A		6.55		-6.55	1127	NO L-NAPL ; NO D-NAPL
C-3				0.00	1130	BURIED

SEMI-ANNUAL GROUNDWATER ELEVATION REPORT
ARCH CHEMICAL ROCHESTER, N.Y.

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME	Comments
	11/07/06			0.00		
C-5		7.20		-7.20	1106	NO L-NAPL ; NO D-NAPL
E-1		0.64		-0.64	1117	NO L-NAPL
E-2		4.46		-4.46	1122	NO L-NAPL ; NO D-NAPL
E-3		6.08		-6.08	1143	NO L-NAPL ; NO D-NAPL
E-4				0.00	1144	OBSTRUCTED
E-5		5.95		-5.95	1146	NO L-NAPL ; NO D-NAPL
EC-1		16.40		-16.40	1149	
EC-2				0.00	1201	DRY AT 12.79 '
ERIE CANAL		36.79		-36.79	1205	
MW-16		10.49		-10.49	1210	
MW-3		5.53		-5.53	1036	
MW-G6		3.66		-3.66	1040	
MW-G7				0.00	1048	NOT LOCATED
MW-G8		6.95		-6.95	1044	
MW-G9		9.60		-9.60	1046	
N-1				0.00	1147	OBSTRUCTED
N-2		4.14		-4.14	1151	NO L-NAPL ; NO D-NAPL
N-3		6.38		-6.38	1210	NO L-NAPL
NESS-E		13.87		-13.87	1230	
NESS-W		30.68		-30.68	1236	
PW-10				0.00		TANKER PARKED ON ROAD BOX
PW-11		24.17		-24.17	1223	NO L-NAPL
PW-12		5.40		-5.40	1137	
PW-13		22.13		-22.13	1255	L-NAPL=0.05' ; NO D-NAPL
PW-14				0.00		NO L-NAPL
PZ-101		12.13		-12.13	1023	
PZ-102		11.65		-11.65	1026	
PZ-103		10.41		-10.41	1029	
PZ-104		12.33		-12.33	1100	
PZ-105		6.63		-6.63	1053	NO L-NAPL ; NO D-NAPL
PZ-106		8.81		-8.81	1110	NO L-NAPL ; NO D-NAPL

SEMI-ANNUAL GROUNDWATER ELEVATION REPORT
ARCH CHEMICAL ROCHESTER, N.Y.

SAMPLE POINT	DATE	DEPTH TO WATER	CASING ELEVATION	GW ELEVATION	TIME	Comments
PZ-107	11/07/06	5.25		-5.25	1112	NO L-NAPL ; NO D-NAPL
S-1		1.01		-1.01	1054	NO L-NAPL ; NO D-NAPL
S-2		3.27		-3.27	1059	NO L-NAPL
S-3		0.89		-0.89	1101	NO L-NAPL ; NO D-NAPL
S-4		0.71		-0.71	1115	
W-1				0.00	1236	OBSTRUCTED
W-2		10.38		-10.38	1204	NO L-NAPL ; NO D-NAPL
W-3		8.49		-8.49	1217	NO L-NAPL ; NO D-NAPL
W-4		4.09		-4.09	1220	NO L-NAPL ; NO D-NAPL
W-5		6.32		-6.32	1237	NO L-NAPL ; NO D-NAPL
W-6		11.93		-11.93	1232	NO L-NAPL ; NO D-NAPL

FIELD OBSERVATIONS

Facility: ARCH Sample Point ID: BR-105

Field Personnel: R. STONE / K. OAKLEY Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 1200 Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: — Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-13-06 / 1205 Date / Time Completed: 11-13-06 / 1230

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 21.82 Elevation. G/W MSL: ____

Well Total Depth, Feet: ____ Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal: ____ Dedicated: (Y) / N

Total Volume Purged, Gal: ____ Purged To Dryness Y / (N)

Purge Observations: LO-FLOW Start SL. TURBID Finish CLEAR BLACK TINT

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1215	70	21.85		11.4	7.51	1947	3.16	766	1.87
1220	70	21.89		11.0	7.37	1899	1.89	-210	1.83
1225	70	21.87		11.2	7.17	1878	2.74	-186	1.77
1230	70	21.87		11.4	7.20	1913	1.93	-169	1.79

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID BR-105

e 11-13-06 1235 Water Level @ Sampling, Feet: 21.87

od of Sampling: PERISTALTIC PUMP Dedicated: (Y) / N

i-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
1230	11.4	7.20	1913	1.93	-169	1.79

TRUMENT CHECK DATA:

idity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

tions: _____

erial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

tions: _____

lu y Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

ions: _____

ERAL INFORMATION:

her conditions @ time of sampling: FOGGY, 40°F

le Characteristics: CLEAR

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

/ that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

11/13/06 By: _____ Company: STC

FIELD OBSERVATIONS

ility: ARCH Sample Point ID: BC-105 D

Field Personnel: R. SRUF/K. OAKLEY Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 1202 Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: — Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-13-06 / 1205 Date / Time Completed: 11-13-06 / 1235

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 25.63 Elevation. G/W MSL:

Well Total Depth, Feet: Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: Dedicated: Y / (N)

Total Volume Purged, Gal: Purged To Dryness Y / (N)

Purge Observations: LO-FLOW Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1220	25.75	100 ml/mn		11.5	6.62	20,970	2.36	-267	0.72
1225	25.75	↓		11.4	6.71	20,250	1.66	-279	0.65
1230	25.75	↓		11.6	6.68	20,310	1.12	-283	0.62
1235	25.75	↓		11.6	6.65	20,840	1.09	-287	0.64

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID BR-105 D

e 11-13-06 1240 Water Level @ Sampling, Feet: 25.75

od of Sampling: BLADDER PUMP Dedicated: Y (N)

i-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
235	11.6	6.65	20,840	1.09	-287	0.64

TRUMENT CHECK DATA:

idity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

tions: _____

erial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

tions: _____

lu y Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: FOGGY, 40°F

le Characteristics: CLEAR, BLACK TINT

MENTS AND OBSERVATIONS: _____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

11/13/06 By: _____ Company: SC

FIELD OBSERVATIONS

Facility: ARCH — Sample Point ID: BR-10C

Field Personnel: R. SENF / K. OAKLEY — Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 1105 — Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried — %

Prot. Casing/riser height: — — Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-13-06 / 1110 — Date / Time Completed: 11-13-06 / 1135

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser — Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 22.23 — Elevation. G/W MSL:

Well Total Depth, Feet: — Method of Well Purge: BLADDER PUMP

One (1) Riser Volume, Gal: — Dedicated: Y / (N)

Total Volume Purged, Gal: — Purged To Dryness Y (N)

Purge Observations: LO-FLOW — Start SL. TURBID — Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1115	150	22.25		12.0	7.09	3881	37.4	-136	0.87
1120	|	22.25		12.1	6.71	3825	37.8	-146	0.90
1125	|	22.25		11.8	6.76	3699	39.7	-152	0.84
1130	↓	22.25		11.9	6.76	3675	41.9	-155	0.80

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID BR-106

r e 11-13-06 / 1140 Water Level @ Sampling, Feet: 22.25

od of Sampling: BLADDER PUMP Dedicated: Y (N)

i-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
1130	11.9	6.76	3675	41.9	-155	0.80

TRUMENT CHECK DATA:

idity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

tions: _____

erial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

tions: _____

luc y Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: FOGGY, 40°F

le Characteristics: CLEAR

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

11/13/06 By: [signature] Company: STC

FIELD OBSERVATIONS

'lity: Arch Chemical

Sample Point ID: BR-12G

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

*Flush mount and vault box destroyed, riser is o/c, remaining casing is bent

Date/Time 11-9-06 / 1313

Cond of seal: ( ) 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: 11-9-06 / 1315

Date / Time Completed: 11-9-06 / 1340

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 4.0

'ial Water Level, Feet: 7.02

Elevation. G/W MSL:

Well Total Depth, Feet: 45.45

Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal:

Dedicated: (Y) / N

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations:

Start Turbid Finish Orange Tint

Orange

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	ml/min	G/L							
1320	200	7.09		15.8	10.13	553	175.0	-101	1.17
1325		7.13		15.9	7.32	1445	34.3	-98	1.01
1330				16.0	7.19	1517	29.1	-117	0.94
1335				16.1	7.45	1492	25.7	-120	.90
1340				16.1	7.43	1488	22.3	-119	.87

Sampled @ 1340 on 11-9-06

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID _____

e/ e _____ / _____ Water Level @ Sampling, Feet: _____

hod of Sampling: _____ Dedicated: Y / N

ti-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

TRUMENT CHECK DATA:

bidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

itions: _____

Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

itions: _____

du y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

tions: _____

IERAL INFORMATION:

her conditions @ time of sampling: _____

ple Characteristics: _____

IMENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

_____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical

Sample Point ID: BR-127

Sampled Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-8-06 / 1008

Cond of seal: (Y) 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: ____ / ____ % LEL: ____ / ____

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 11-8-06 / 1018

Date / Time Completed: 11-8-06 / 1040

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 2.90

Elevation. G/W MSL: ____

Well Total Depth, Feet: 50.63

Method of Well Purge: Peristaltic

One (1) Riser Volume, Gal: ____

Dedicated: (Y) / N

Total Volume Purged, Gal: ____

Purged To Dryness Y (N)

Purge Observations: ____

Start Clear with Blade specks Finish Clear with Blade Specks

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other D.O
	ml/min	WL							
1025	150	2.92		13.7	8.14	1267	14.36	-149	1.19
1030				13.6	8.07	1196	14.91	-148	1.07
1035				13.7	8.03	1193	15.40	-151	1.05
1040				13.7	7.99	1195	14.83	-155	1.04

Well sampled @ 1040 on 11-8-06

Thomas Palmer

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID _____

te/ e _____ / _____ Water Level @ Sampling, Feet: _____

thod of Sampling: _____ Dedicated: Y / N

lti-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

STRUMENT CHECK DATA:

bidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

utions: _____

Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

utions: _____

ndt ity Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

utions: _____

NERAL INFORMATION:

ther conditions @ time of sampling: _____

ple Characteristics: _____

MMENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

ify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific cals.

__/__/____ By: _____ Company: _____

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

ility: Arch Chemical

Sample Point ID: BR-SA

Field Personnel: T-Palmer, K. Dalby

Sample Matrix: GW

[X] Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-9-06 , 1228

Water Level @ Sampling, Feet: 30.93

Method of Sampling: Sample Port

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 (ORP)	Other ( )
1230	15.4	7.59	1360	6190	-70	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sunny, 60°

Sample Characteristics: Turbid, Orange Tint

COMMENTS AND OBSERVATIONS:

_____

_____

_____

_____

I ify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 11/9/06 By: _____ Company: STC

FIELD OBSERVATIONS

ility: Arch Chemical Sample Point ID: BR-6A

Field Personnel: T. Palmer, K. Oakley Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-8-06 / 1221 Cond of seal: ( ) Good ( ) Cracked ____ %
( ) None (X) Buried

Former Pumping Well

Prot. Casing/riser height: ____ Cond of prot. Casing/riser: (X) 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: 11-8-06 / 1225 Date / Time Completed: 11-8-06 / 1245

Surf. Meas. Pt: (X) Prot. Casing ( ) Riser Riser Diameter, Inches: 6.0

Static Water Level, Feet: 8.94 Elevation. G/W MSL: ____

Well Total Depth, Feet: ____ Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ Dedicated: (Y) / N

Total Volume Purged, Gal: ____ Purged To Dryness Y / (N)

Purge Observations: ____ Start Sl. Turbid Yellow Tint Finish Lt-Yellow Tint

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1230	ml/min 200	htz 8.99		15.9	8.52	331	73.6	-67	1.67
1235	"	9.03		15.9	8.15	238	27.5	-69	1.23
1240	"	"		16.6	8.10	236	28.0	-72	1.20
1245	"	"		16.0	8.08	234	27.1	-74	1.21
			DUP Taken						

Well sampled @ 1245 on 11-8-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

T _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )
247	16.0	8.07	233	26.8	-75	1.22

RUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

uct Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

ier conditions @ time of sampling: _____

e Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ls.

/ / By: _____ Company: _____

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

Facility: Arch

Sample Point ID: BR-7A

Field Personnel: T. Palmer K. Oakley

Sample Matrix: GW

(X Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 12-20-06 / 1200

Water Level @ Sampling, Feet: 3407

Method of Sampling: Sample Port

Dedicated: Y / N

Multi-phased/ layered: ( ) Yes (X) No

If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1203	14.6	7.43	3798	28.9	-200	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun, 35°

Sample Characteristics: Clear w/ Black Specks

COMMENTS AND OBSERVATIONS: _____

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 12,20,06 By: [signature] Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

Facility: Arch Sample Point ID: BR-9

Field Personnel: T. Palmer, K. Oakley Sample Matrix: GW

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 12-20-06 / 1150 Water Level @ Sampling, Feet: 24.93

Method of Sampling: Sample Port Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1152	15.7	7.17	2686	26.5	-109	

INSTRUMENT CHECK DATA:

Turbidity Serial #: 316733 NTU std. = ____ NTU 20 NTU std. = 20 NTU

Solutions: 20-0461 1

pH Serial #: 6203713 4.0 std.= 4.00 7.0 std.= 7.01 10.0 std. = ____

Solutions: 4-5045 7-5015

Conductivity Serial #: 6203713 1429 umhos/cm= 1429 ____ umhos/cm= ____

Solutions: 1429-3493

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun, 35°

Sample Characteristics: Clear with black and orange specks, slight odor

COMMENTS AND OBSERVATIONS:

I certify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 12,20,06 By: [signature] Company: STL

FIELD OBSERVATIONS

'lity: Arch Chemical — Sample Point ID: E-1

Field Personnel: T. Palmer, K. Oakley — Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-8-06 / 1056 — Cond of seal: ( ) Good ( ) Cracked Vault ( ) 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: 11-8-06 / 1100 — Date / Time Completed: 11-8-06 / 1120

Surf. Meas. Pt: ( ) Prot. Casing ( ) Riser — Riser Diameter, Inches: Vault

'ial Water Level, Feet: 0.64 — Elevation. G/W MSL: ____

Well Total Depth, Feet: ____ — Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ — Dedicated: (Y) / N

Total Volume Purged, Gal: ____ — Purged To Dryness Y (N)

Purge Observations: ____ — Start Gray Tint Finish Clear Tint

Odor

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	ml/min	WL							
1105	200	0.64		11.6	9.39	9124	68.7	-192	1.03
1110				11.1	9.22	8018	46.3	-207	0.93
1115				11.0	9.18	7963	38.3	-204	0.90
1120				10.9	9.15	7910	37.9	-202	0.91

Well Sampled @ 1120 on 11-8-06

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID _____

/Time _____ / _____ Water Level @ Sampling, Feet: _____

hod of Sampling: _____ Dedicated: Y / N

i-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

TRUMENT CHECK DATA:

bidity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

itions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

tions: _____

duc' 'y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

tion _____

ERAL INFORMATION:

her conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

_____ / / _____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: ARCH

Sample Point ID: MW-106

Field Personnel: R. SENK / K. OAKLEY

Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 1110

Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-13-06 / 1112

Date / Time Completed: 11-13-06 / 1135

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 10.15

Elevation. G/W MSL:

Well Total Depth, Feet:

Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal:

Dedicated: (Y) N

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations: LO-FLOW

Start SL. TURBID Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1120	10° 10.80		12.5	7.05	2684	19.4	-134	3.20
1125	| 10.82		12.4	6.75	3819	7.49	-168	1.92
1130	| 10.85		12.3	6.71	3738	5.06	-170	2.03
1135	↓ 10.85		12.3	6.72	3746	3.47	-173	2.07

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID MW-106

T e 11-13-06 1145 Water Level @ Sampling, Feet: 10.85

od of Sampling: PERISTALTIC PUMP Dedicated: (Y) N

i-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
1135	12.3	6.72	3746	3.47	-173	2.07

TRUMENT CHECK DATA:

idity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

tions: _____

erial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

tions: _____

lur y Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: FOGGY, 40°F

le Characteristics: CLEAR

MENTS AND OBSERVATIONS: _____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

11/13/06 By: _____ Company: STL

FIELD OBSERVATIONS

-ility: Arch Chemical — Sample Point ID: MW-127

Field Personnel: T. Palmer, K. Oakley — Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-8-06 / 936 — Cond of seal: (X) 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: — / — % LEL: — / —

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 11-8-06 / 940 — Date / Time Completed: 11-8-06 / 1005

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser — Riser Diameter, Inches: 2.0

-itial Water Level, Feet: 3.62 — Elevation. G/W MSL:

Well Total Depth, Feet: 11.25 — Method of Well Purge: Peristaltic

One (1) Riser Volume, Gal: — Dedicated: (Y) / N

Total Volume Purged, Gal: — Purged To Dryness Y / (N)

Purge Observations: — Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other (D.O.)
	ml/min	WL							
945	50	4.54		13.4	7.14	4766	4.90	-6	1.17
950		4.63		13.0	7.50	4771	5.37	-70	1.04
955		4.66		13.1	7.65	4824	3.23	-127	0.98
1000		4.67		13.2	7.68	4813	3.07	-120	0.95
1005	↓	4.67		13.1	7.69	4831	2.89	-126	0.94

Sampled @ 1005 on 11-8-06

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID _____

e _____ / _____ Water Level @ Sampling, Feet: _____

hod of Sampling: _____ Dedicated: Y / N

ti-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

TRUMENT CHECK DATA:

bidity Serial #: 316733 NTU std. = ____NTU 20 NTU std. = 20 NTU

itions: 20 · 046/1

Serial #: 6203713 4.0 std.= 4.02 7.0 std.= 7.00 10.0 std. =_____

itions: 4-5015 7-5015

du ty Serial #: 6203713 1429 umhos/cm= 1429 _____umhos/cm=_____

itions: 1429-3493

IERAL INFORMATION:

her conditions @ time of sampling: _____

ole Characteristics: _____

IMENTS AND OBSERVATIONS: _____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

/ / By: _____ Company: _____

FIELD OBSERVATIONS

Facility: ARCH Sample Point ID: MW-16

Field Personnel: R. SENF/K. OAKLEY Sample Matrix: G/W

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 1020 Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried %

Prot. Casing/riser height: — Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-13-06 / 1025 Date / Time Completed: 11-13-06 / 1055

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 4.0

Initial Water Level, Feet: 10.62 Elevation. G/W MSL:

Well Total Depth, Feet: Method of Well Purge: PERISTALTIC PUMP

One (1) Riser Volume, Gal: Dedicated: (Y) / N

Total Volume Purged, Gal: Purged To Dryness Y / (N)

Purge Observations: LO-FLOW Start CLEAR Finish CLEAR

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) Flow rate/min	Purge Rate (gpm/htz) WL	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1035	100	10.62		15.6	7.20	2303	50.4	15	0.93
1040	|	10.62		15.5	6.93	2344	38.3	0	0.85
1045	|	10.62		15.4	6.82	2357	30.8	-3	0.83
1050	↓	10.62		15.4	6.78	2355	27.2	-7	0.85

FIELD OBSERVATIONS (continued)

IPLING INFORMATION: POINT ID MW-16

Time 11-13-06 / 1055 Water Level @ Sampling, Feet: 10.62

od of Sampling: PERISTALTIC PUMP Dedicated: (Y) / N

-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

IPLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other (DO)
050	15.4	6.78	2355	27.2	-7	0.85

TRUMENT CHECK DATA:

idity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

tions: _____

erial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

ions: _____

luc' 'y Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

ions _____

ERAL INFORMATION:

ıer conditions @ time of sampling: FOGGY, 40°F

le Characteristics: CLEAR

MENTS AND OBSERVATIONS: _____

' that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ıls.

11/13/06 By: _____ Company: STC

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

:ility: Arch Chemical

Sample Point ID: PW-10

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-9-06 / 1242

Water Level @ Sampling, Feet: _____

Method of Sampling: Sample Port

Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1245	46.0	9.48	12.330	26.4	-205	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun, 60

Sample Characteristics: SL Turbid, Amber, Moderate odor

COMMENTS AND OBSERVATIONS: UNABLE TO OBTAIN water Level / Truck parked on Road Ax

I ify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 11/9/06 By: _____ Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: Arch Chemical — Sample Point ID: PW-11

Field Personnel: T. Palmer, K. Oaks — Sample Matrix: GW

~~X~~ Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-9-06 , 1302 — Water Level @ Sampling, Feet: 25.08

Method of Sampling: Peristaltic — Dedicated: Y / N

Multi-phased/ layered: ( ) Yes ~~X~~ No — If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1305	16.1	7.52	7747	316	-56	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

~~pH~~ Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Partly Cloudy, 60

Sample Characteristics: Clear with Blonde specks, Slight odor, Sheen

COMMENTS AND OBSERVATIONS:

Sheen observed on surface of Samples

I ify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific p tocals.

Date: 11,9,06 By: Thomas Palmer Company: STL

FIELD OBSERVATIONS

Facility: Arch Chemical

Sample Point ID: DW-12

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-9-06 / 1153

Cond of seal: (Y) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (N) 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: 11-9-06 / 1155

Date / Time Completed: 11-9-06 / 1215

Surf. Meas. Pt: ( ) Prot. Casing (Y) Riser

Riser Diameter, Inches: 6.0

Initial Water Level, Feet: 5.38

Elevation. G/W MSL:

Well Total Depth, Feet:

Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal:

Dedicated: (Y) / N

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations:

Start Clear Finish Clear - Moderate Odor

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other
	ml/min	VL							
1200	200	5.47		15.9	7.38	2771	4.10	-141	
1205				15.9	7.23	2688	3.35	-132	
1210				16.0	7.25	2690	4.46	-127	
1215				16.0	7.18	2713	3.04	-122	

Sampled @ 1215 on 11-9-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

T e _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

luc y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

ner conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

r that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ils.

/ / _____ By: _____ Company: _____

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

cility: Arch

Sample Point ID: PW-13

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 12-20-06 , 1215

Water Level @ Sampling, Feet: 22.13

Method of Sampling: Sample PoA

Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No

If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1217	14.1	7.18	3067	7.8	-209	

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Sun, 35°

Sample Characteristics: Clear

COMMENTS AND OBSERVATIONS:

I ify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 12/20/06 By: _____ Company: STL

LeachField Form
Revision 0
March 15,2002

FIELD OBSERVATIONS

-ility: Arch Chemical

Sample Point ID: PW-14

Field Personnel: T-Palmer, K-Oakley

Sample Matrix: Gw

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-10-06 / 1000

Water Level @ Sampling, Feet: 9.93

Method of Sampling: Sample Port

Dedicated: (Y) / N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
1004	11.0	9.18	3613	3.94	-149	

INSTRUMENT CHECK DATA:

Turbidity Serial #: 316733 NTU std. = ____ NTU 20 NTU std. = 20 NTU

Solutions: 20-0461 1

pH Serial #: 6203713 4.0 std.= 4.01 7.0 std.= 7.00 10.0 std. = ____

Solutions: 4-5045 7-5015

Conductivity Serial #: 6203713 1429 umhos/cm= 1429 ____ umhos/cm= ____

Solutions: 1429-3493

GENERAL INFORMATION:

Weather conditions @ time of sampling: Overcast, 44°

Sample Characteristics: Clear, Amber, slight odor

COMMENTS AND OBSERVATIONS:

I tify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific p ocals.

Date: 11,10,06 By: [signature] Company: STL

FIELD OBSERVATIONS

Facility: Arch Chemical — Sample Point ID: PZ-101

Field Personnel: T. Palmer, K. Oakley — Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-10-06 / 1040 — Cond of seal: (X) 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: — / — % LEL: — / —

Vol. Organic Meter (Calibration/Reading): — Volatiles (ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 11-10-06 / 1044 — Date / Time Completed: 11-10-06 / 1115

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser — Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.59 — Elevation. G/W MSL: ____

Well Total Depth, Feet: 21.69 — Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ — Dedicated: (Y) / N

Total Volume Purged, Gal: ____ — Purged To Dryness Y / (N)

Purge Observations: ____ — Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO.
	mlmin	WL							
1050	150	1293		12.5	7.45	9032	16.45	-28	2.11
1055		12.95		12.4	7.11	8009	10.05	5	1.56
1100		12.96		12.4	7.08	8966	7.05	7	1.50
1105				12.5	7.02	7482	4.31	6	1.51
1110				12.5	6.99	7434	3.77	8	1.45
1115				12.5	6.96	7398	3.56	7	1.43

Sampled @ 1115 on 11-10-06

FIELD OBSERVATIONS (continued)

IPLING INFORMATION: POINT ID _____

me _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

IPLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

tions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

tions: _____

luc y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

/ that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

/ / _____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical

Sample Point ID: PZ-102

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-10-06 / 1128

Cond of seal: (X) 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: — / —

% LEL: — / —

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) — / —

PURGE INFORMATION:

Date / Time Initiated: 11-10-06 / 1134

Date / Time Completed: 11-10-06 / 1155

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.06

Elevation. G/W MSL:

Well Total Depth, Feet: 32.60

Method of Well Purge: Peristaltic ~~Down~~ Pump

One (1) Riser Volume, Gal:

Dedicated: (Y) / N

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations:

Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other D.O.
	ml/min	WL							
1140	150	12.36		12.2	7.47	6965	2.88	-84	0.88
1145		12.38		12.4	7.28	6934	1.70	-91	0.87
1150				12.4	7.27	6937	3.03	-89	0.85
1155				12.4	7.30	6941	2.41	-87	0.86

Sampled @ 1155 on 11-10-06

FIELD OBSERVATIONS (continued)

MPLING INFORMATION: POINT ID _____

/Time _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

i-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

MPLING DATA:

Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

TRUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

tions: _____

Serial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

tions: _____

lu ty Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

_____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical Sample Point ID: PZ-103

Field Personnel: T. Palmer, K. Oakley Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-10-06 / 1213 Cond of seal: (X) 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: — / — % LEL: — / —

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm): — / —

PURGE INFORMATION:

Date / Time Initiated: 11-10-06 / 1215 Date / Time Completed: 11-10-06 / 1235

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 10.73 Elevation. G/W MSL:

Well Total Depth, Feet: 32.52 Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: Dedicated: (Y) / N

Total Volume Purged, Gal: Purged To Dryness Y (N)

Purge Observations: Start Clear 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
	initial	WL							
1220	150	11.18		13.2	7.29	6051	4.96	-118	1.26
1225	"	11.22		13.3	7.18	6285	2.76	-141	1.03
1230	"	11.23		13.2	7.20	6304	2.69	-142	0.98
1235	"	"		13.1	7.16	6383	2.90	-148	0.95

Sampled @ 1235 on 11-10-06

Thomas Palmer

FIELD OBSERVATIONS (continued)

IPLING INFORMATION: POINT ID _____

Time _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

IPLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

TRUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

tions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

tions: _____

luc y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

tions: _____

ERAL INFORMATION:

her conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

/ that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

/ / By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical

Sample Point ID: PZ-104

Field Personnel: T. Palmer, K. Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-10-06 / 1250

Cond of seal: (X) Good ( ) Cracked ( ) None ( ) Buried ____ %

Prot. Casing/riser height: —

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good ( ) Loose (X) 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: 11-10-06 / 1252

Date / Time Completed: 11-10-06 / 1315

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 12.52

Elevation. G/W MSL:

Well Total Depth, Feet:

Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal:

Dedicated: (Y) / N

Total Volume Purged, Gal:

Purged To Dryness Y (N)

Purge Observations:

Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other
1300	~~gpm/htz~~ 206	12.66		15.9	7.64	1674	7.94	-128	1.07
1305				15.9	7.30	1643	5.15	-118	0.97
1310				15.9	7.28	1642	4.82	-118	0.93
1315				16.0	7.26	1647	3.58	-117	0.90

Sampled @ 1315 on 11-10-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

Time _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

luc y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

ıer conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

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_____

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r that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ıls.

/ / _____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical

Sample Point ID: PZ-105

Field Personnel: T-Palmer K Oakley

Sample Matrix: GW

MONITORTING WELL INSPECTION:

* Casing filled in with mud and water

Date/Time 11-8-06 / 1131

Cond of seal: ( ) Good ( ) Cracked ____ %
( ) None (X) Buried

Prot. Casing/riser height: ____

Cond of prot. Casing/riser: ( ) Unlocked ( ) Good
( ) Loose (X) 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: 11-8-06 / 1134

Date / Time Completed: 11-8-06 / 1205

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser

Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 6.58

Elevation. G/W MSL: ____

Well Total Depth, Feet: 32.86

Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____

Dedicated: (Y) / N

Total Volume Purged, Gal: ____

Purged To Dryness Y (N)

Purge Observations: ____

Start Turbid Brown Finish Turbid Brown

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other D.O.
	ml/min	WL							
1140	75	7.13		13.7	8.23	1716	210	-97	1.32
1145		7.80		14.2	7.81	1761	279	-88	1.21
1150		8.66		14.1	7.54	1806	476	-86	1.13
1155		9.35		14.2	7.51	1836	515	-84	1.10
1200		10.07		14.2	7.48	1847	513	-88	1.09
1205		10.82		14.3	7.49	1862	511	-90	1.07

Sampled @ 1205 on 11-8-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

e _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

idity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

lu y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

her conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

y that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

/ / _____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical | Sample Point ID: PZ-106

Field Personnel: T. Palmer, JC Oakley | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-9-06 / 1113 | Cond of seal: (X) 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: ____ / ____ % LEL: ____ / ____

Vol. Organic Meter (Calibration/Reading): Volatiles (ppm) ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 11-9-06 / 1115 | Date / Time Completed: 11-9-06 / 1135

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser | Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 8.91 | Elevation. G/W MSL: ____

Well Total Depth, Feet: 27.90 | Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ | Dedicated: (Y) / N

Total Volume Purged, Gal: ____ | Purged To Dryness Y / (N)

Purge Observations: ____ | Start Yellow Tint Clear Finish Yellow Tint Slight odor

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz) ml/min / WL	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
1120	100 / 9.23		15.0	6.78	5280	8.17	-79	1.08
1125	9.68		14.8	6.79	5361	8.74	-90	0.99
1130	10.01		14.9	6.82	5357	8.24	-96	0.94
1135	10.27		14.9	6.86	5352	7.87	-101	0.91

Sampled @ 1135 on 11-9-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

me _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

dity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

lu y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

ner conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

/ that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

/ / _____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical | Sample Point ID: PZ-107

Field Personnel: T. Palmer, K Oakley | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-8-06 / 1304 | Cond of seal: (X) 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: ____ / ____ | % LEL: ____ / ____

Vol. Organic Meter (Calibration/Reading): | Volatiles (ppm): ____ / ____

PURGE INFORMATION:

Date / Time Initiated: 11-8-06 / 1305 | Date / Time Completed: 11-8-06 / 1330

Surf. Meas. Pt: ( ) Prot. Casing (X) Riser | Riser Diameter, Inches: 2.0

Initial Water Level, Feet: 5.24 | Elevation. G/W MSL: ____

Well Total Depth, Feet: 27.90 | Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ | Dedicated: (Y) / N

Total Volume Purged, Gal: ____ | Purged To Dryness Y (N)

Purge Observations: ____ | Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other D.O
1310	ml/min 200 / WL 5.43		14.4	7.42	2064	3.11	-102	1.06
1315	" / 5.45		14.4	7.53	2087	2.62	-96	0.91
1320	" / "		14.5	7.63	2148	2.10	-117	0.89
1325	" / "		14.5	7.68	2095	2.77	-118	0.90
1330	" / "		14.5	7.67	2051	2.57	-121	0.88

Well sampled @ 1330 on 11-8-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

Time _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

dity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ions: _____

erial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ions: _____

ur y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ions: _____

ERAL INFORMATION:

ner conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

r that sampling procedures were in accordance with all applicable EPA, State and Site-Specific als.

__/__/____ By: _____ Company: _____

LeachField Form
Revision 1
January 29, 2003

FIELD OBSERVATIONS

Facility: ARCH Sample Point ID: GO-2

Field Personnel: R. SHAW Sample Matrix: S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-07-06 / 1330 Water Level @ Sampling, Feet: N/A

Method of Sampling: MANUAL GRAB Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
Grab 1	1335	11.3	7.75	1545	8.73	58	
Grab 2							
Grab 3							

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: CLOUDY, 50°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

_____

_____

_____

_____

rtify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific
tocals.

Date: 11/07/06 By: [signature] Company: STL

LeachField Form
Revision 1
January 29, 2003

FIELD OBSERVATIONS

Facility: ARCH Sample Point ID: GO-2 S1

Field Personnel: R. Shaw Sample Matrix: S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-07-06 1320 Water Level @ Sampling, Feet: N/A

Method of Sampling: DIPPER Dedicated: (Y) N

Multi-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

SAMPLING DATA:

	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
Grab 1	1325	6.9	7.92	497	12.2	47	
Grab 2							
Grab 3							

INSTRUMENT CHECK DATA:

Turbidity Serial #: _____ NTU std. = _____ NTU _____ NTU std. = _____ NTU

Solutions: _____

pH Serial #: _____ 4.0 std.= _____ 7.0 std.= _____ 10.0 std. = _____

Solutions: _____

Conductivity Serial #: _____ _____ umhos/cm= _____ _____ umhos/cm= _____

Solutions: _____

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy, 50°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

rtify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 11/07/06 By: [signature] Company: STC

LeachField Form
Revision 1
January 29, 2003

FIELD OBSERVATIONS

Facility: ARCH **Sample Point ID:** QS-4

Field Personnel: R. SEUF **Sample Matrix:** S/W

(X) Grab ( ) Composite

SAMPLING INFORMATION:

Date/Time 11-07-06 / 1305 **Water Level @ Sampling, Feet:** N/A

Method of Sampling: MANUAL GRAB **Dedicated:** (Y) N

Multi-phased/ layered: ( ) Yes (X) No **If YES:** ( ) light ( ) heavy

SAMPLING DATA:

	Time	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
Grab 1	1310	10.9	7.72	1553	7.76	35	
Grab 2							
Grab 3							

INSTRUMENT CHECK DATA:

Turbidity Serial #: 3925 NTU std. = ____ NTU 5.0 NTU std. = 5.0 NTU

Solutions: P571704

pH Serial #: 61606 4.0 std.= 4.00 7.0 std.= 7.00 10.0 std. = ____

Solutions: 4-5045 7-5013

Conductivity Serial #: 61606 1429 umhos/cm= 1429 ____ umhos/cm= ____

Solutions: 3483

GENERAL INFORMATION:

Weather conditions @ time of sampling: Cloudy, 50°F

Sample Characteristics: CLEAR

COMMENTS AND OBSERVATIONS:

tify that sampling procedures were in accordance with all applicable EPA, State and Site-Specific protocals.

Date: 11/10/06 **By:** [signature] **Company:** STC

FIELD OBSERVATIONS

Facility: Arch Chemical Sample Point ID: S-3

Field Personnel: T. Palmer, K. Oakley Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-9-06 / 954 Cond of seal: ( ) Good ( ) Cracked Vault ____ %
( ) 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: 11-9-06 / 958 Date / Time Completed: 11-9-06 / 1020

Surf. Meas. Pt: ( ) Prot. Casing ( ) Riser Riser Diameter, Inches: VAULT

Initial Water Level, Feet: 0.88 Elevation. G/W MSL: ____

Well Total Depth, Feet: ____ Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: ____ Dedicated: (Y) / N

Total Volume Purged, Gal: ____ Purged To Dryness Y / (N)

Purge Observations: ____ Start Clean with Blade Spuels Finish Clean w/ Blade Spuels

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)		Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other DO
	APUMP	WL							
1005	200	0.88		11.8	7.19	2349	21.7	36	1.27
1010	↓	↓		11.6	7.45	2353	18.96	-18	1.11
1015				11.5	7.52	2354	14.76	-20	1.08
1020	↓	↓		11.5	7.53	2357	12.21	-23	1.07

Sampled @ 1020 on 11-9-06

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

Time _____ / _____ Water Level @ Sampling, Feet: _____

od of Sampling: _____ Dedicated: Y / N

-phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

dity Serial #: 316733 NTU std. = _____NTU 20 NTU std. = 20 NTU

ions: 20 - 046 / 1

erial #: 6203713 4.0 std.= 4.01 7.0 std.= 7.01 10.0 std. = _____

ions: 4.504S 7 - 501S

lur y Serial #: 6203713 1479 umhos/cm= 1429 _____umhos/cm=_____

ions: 1479 - 3493

ERAL INFORMATION:

ner conditions @ time of sampling: _____

le Characteristics: _____

MENTS AND OBSERVATIONS: _____

that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ls.

/ / By: _____ Company: _____

FIELD OBSERVATIONS

Facility: Arch Chemical | Sample Point ID: S-4

Field Personnel: T. Palmer, K. Oakes | Sample Matrix: GW

MONITORTING WELL INSPECTION:

Date/Time 11-9-06 / 1031 | Cond of seal: ( ) Good ( ) Cracked Vault % ( ) 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: 11-9-06 / 1035 | Date / Time Completed: 11-9-06 / 1100

Surf. Meas. Pt: ( ) Prot. Casing ( ) Riser | Riser Diameter, Inches: VAULT

Initial Water Level, Feet: 0.69 | Elevation. G/W MSL:

Well Total Depth, Feet: | Method of Well Purge: Peristaltic Pump

One (1) Riser Volume, Gal: | Dedicated: (Y) / N

Total Volume Purged, Gal: | Purged To Dryness Y (N)

Purge Observations: | Start Clear Finish Clear

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ORP	Other D.O.
1040	ml/min 200 / WL 0.69		12.2	8.67	477	5.23	-14	1.57
1045			12.0	8.53	460	5.06	22	1.28
1050			12.0	8.27	458	5.17	55	1.21
1055			12.0	8.24	458	4.95	59	1.17
1100			11.9	8.19	456	4.82	56	1.12

Sampled @ 1100 on 11-9-06

Thomas Palmer

FIELD OBSERVATIONS (continued)

PLING INFORMATION: POINT ID _____

Time _____ / _____ Water Level @ Sampling, Feet: _____

d of Sampling: _____ Dedicated: Y / N

phased/ layered: ( ) Yes ( ) No If YES: ( ) light ( ) heavy

PLING DATA:

me	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other ( )	Other ( )

RUMENT CHECK DATA:

dity Serial #: _____NTU std. = _____NTU _____NTU std. = _____NTU

ons: _____

rial #: _____ 4.0 std.=_____ 7.0 std.=_____ 10.0 std. =_____

ons: _____

uc y Serial #: _____ _____umhos/cm=_____ _____umhos/cm=_____

ons: _____

ERAL INFORMATION:

er conditions @ time of sampling: _____

e Characteristics: _____

IENTS AND OBSERVATIONS: _____

_____

_____

_____

_____

that sampling procedures were in accordance with all applicable EPA, State and Site-Specific s.

__/__/____ By: _____ Company: _____

FIELD OBSERVATIONS

Facility: ARCH

Sample Point ID: EQUIP. RINSE BLANK

Field Personnel: R. SRNF

Sample Matrix: H_2O

MONITORTING WELL INSPECTION:

Date/Time 11-13-06 / 0840

Cond of seal: ( ) 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: ____ / ____

Date / Time Completed: ____ / ____

Surf. Meas. Pt: ( ) Prot. Casing ( ) Riser

Riser Diameter, Inches: _____

Initial Water Level, Feet: _____

Elevation. G/W MSL: _____

Well Total Depth, Feet: _____

Method of Well Purge: _____

One (1) Riser Volume, Gal: _____

Dedicated: Y / N

Total Volume Purged, Gal: _____

Purged To Dryness Y / N

Purge Observations: _____

Start _____ Finish _____

PURGE DATA: (if applicable)

Time	Purge Rate (gpm/htz)	Cumulative Volume	Temp. (C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other	Other

FIELD OBSERVATIONS (continued)

IPLING INFORMATION: POINT ID EQUIP RINSE BLANK

Time 11-13-06 1 0840 Water Level @ Sampling, Feet: _____

od of Sampling: BLADDER PUMP Dedicated: (Y) N

-phased/ layered: ( ) Yes (X) No If YES: ( ) light ( ) heavy

IPLING DATA:

ime	Temp. (°C)	pH (std units)	Conduct (Umhos/cm)	Turb. (NTU)	Other (ORP)	Other ( )
845	16.2	6.02	2	0	11	

RUMENT CHECK DATA:

idity Serial #: 316733 NTU std. = ____ NTU 20 NTU std. = 20 NTU

tions: 20 = 046/1

erial #: 6203713 4.0 std.= 4.0 7.0 std.= 7.0 10.0 std. = _____

tions: 4 = 5045 7 = 5015

lu ty Serial #: 6203713 1429 umhos/cm= 1429 _____ umhos/cm= _____

ions: 1429 = 3493

ERAL INFORMATION:

ner conditions @ time of sampling: HAZY, 40°F

le Characteristics: CLEAR

MENTS AND OBSERVATIONS: E.R.B. COLLECTED OFF SAMPLE PRO BLADDER PUMP

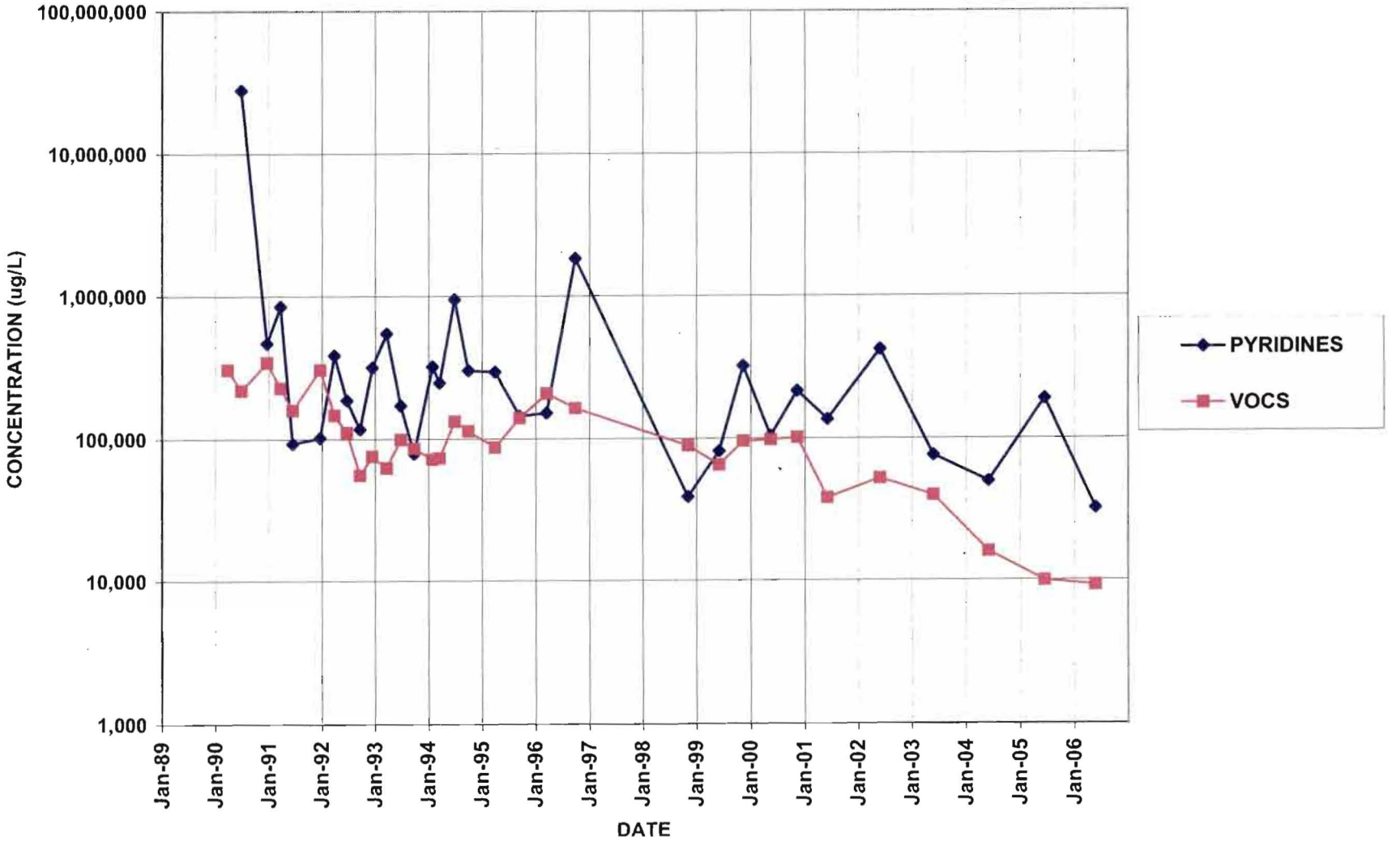
' that sampling procedures were in accordance with all applicable EPA, State and Site-Specific ıls.

11/13/06 By: _____ Company: STC

Appendix B

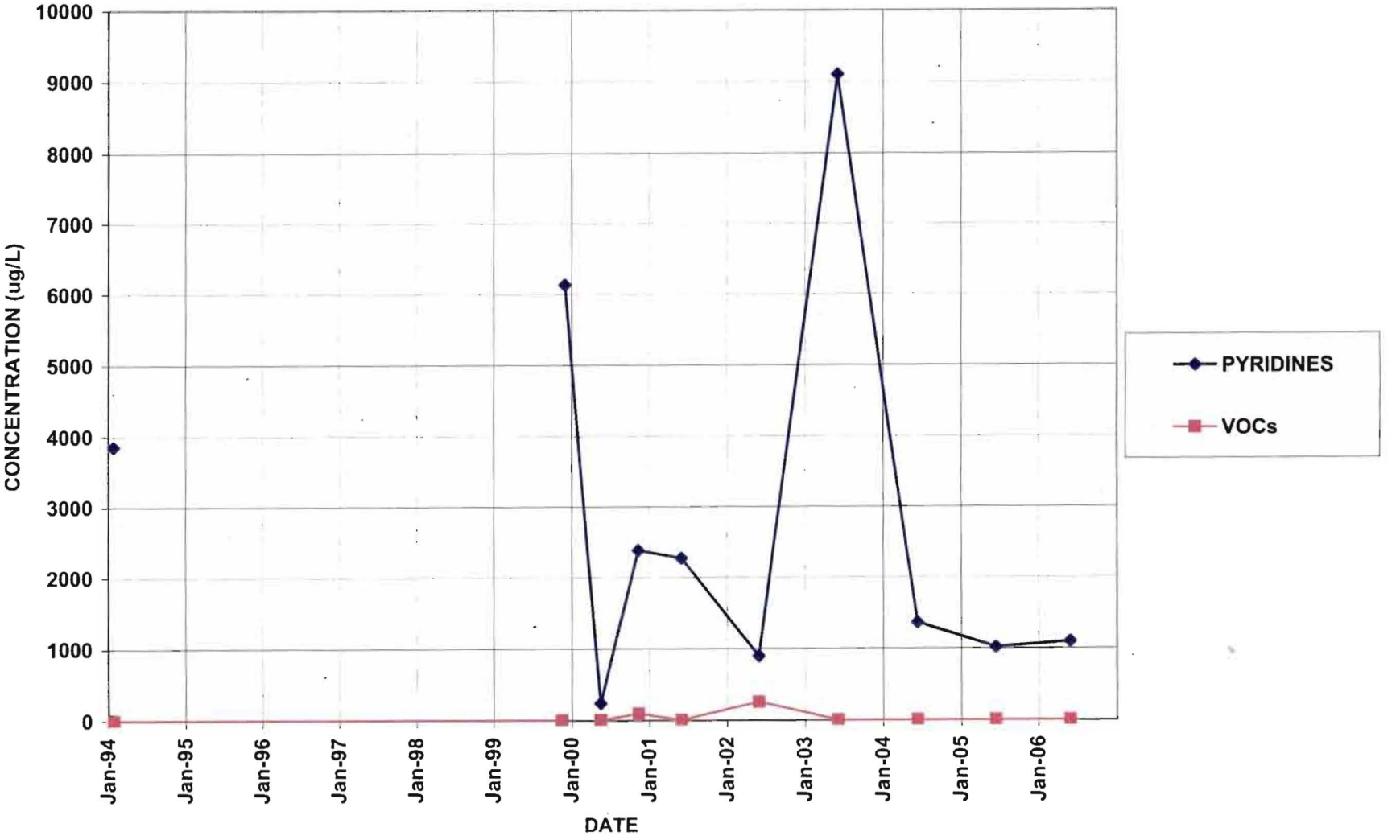
Well Trend Data

B-17



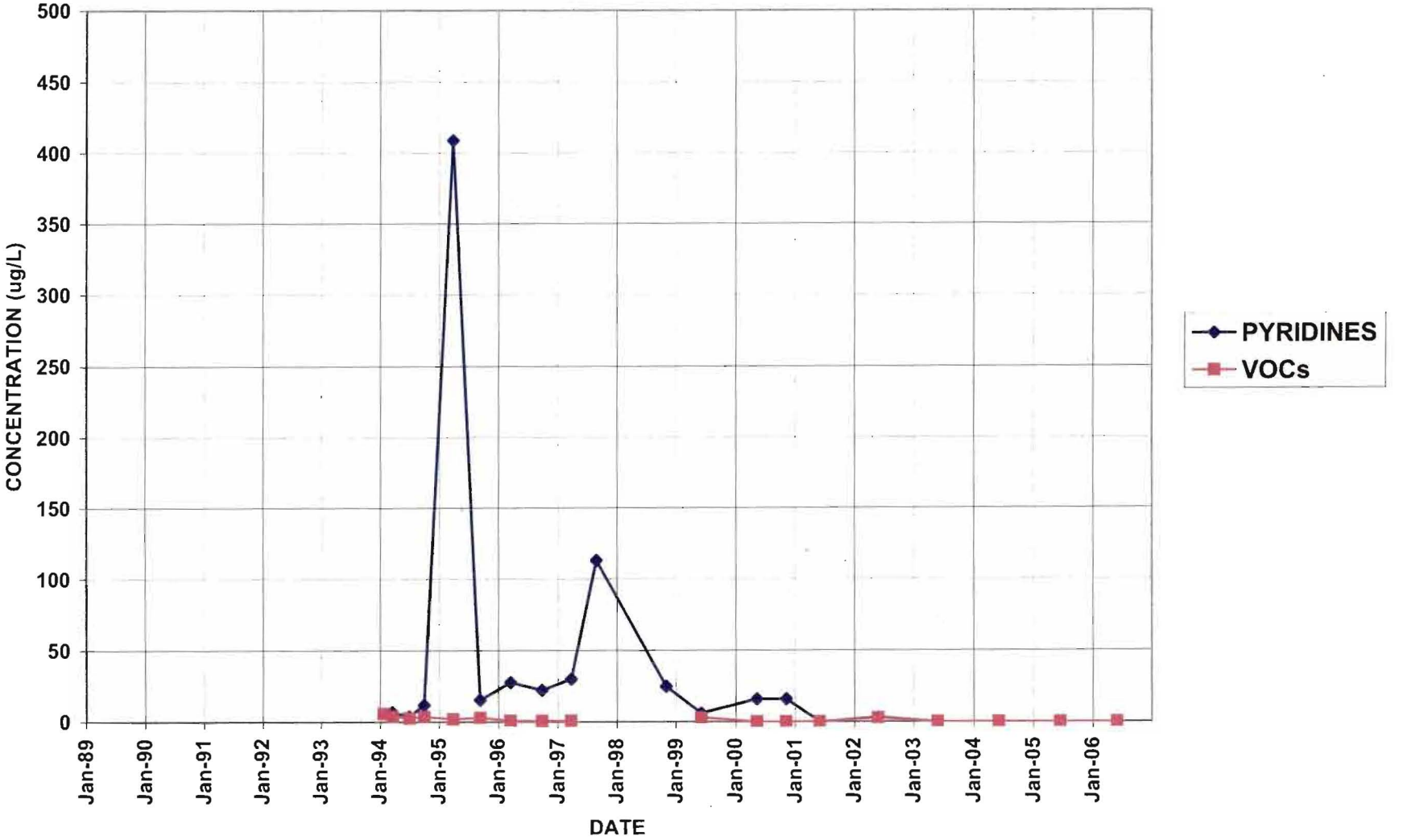
Prepared by: nmb
Reviewed by: jeb

B-7



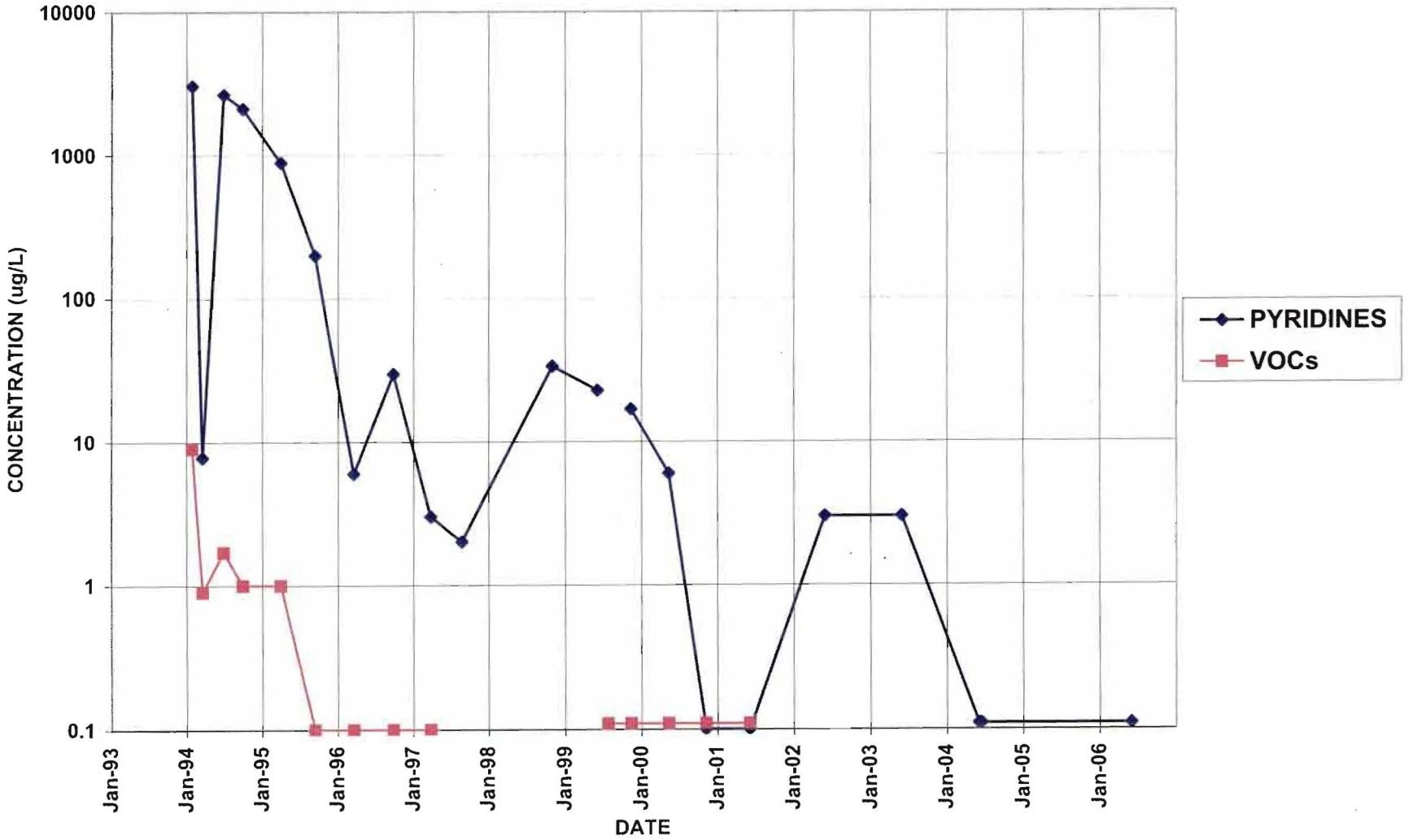
Prepared by: nmb
Reviewed by: jeb

BR-103

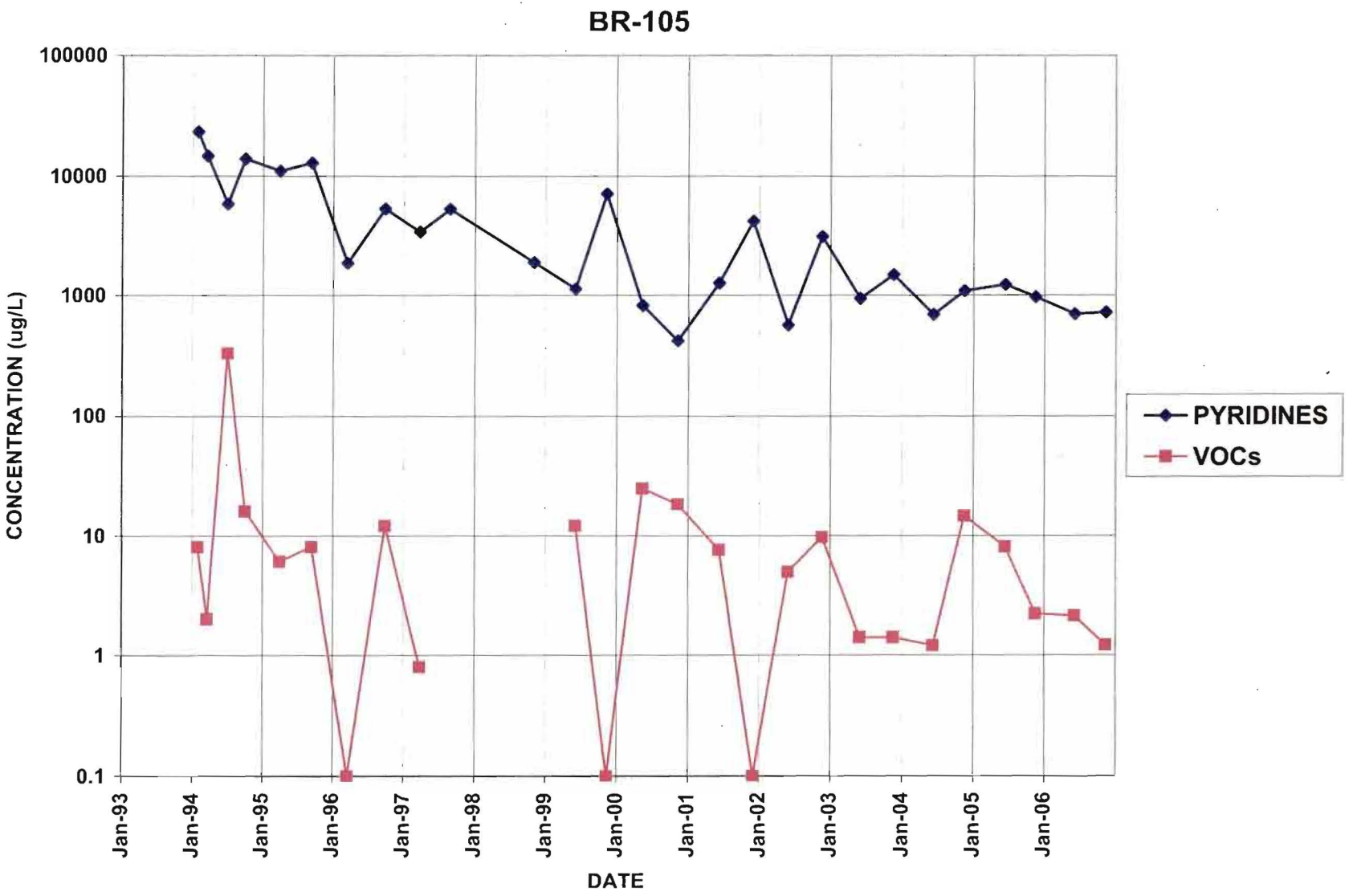


Prepared by: nmb
Reviewed by: jeb

BR-104

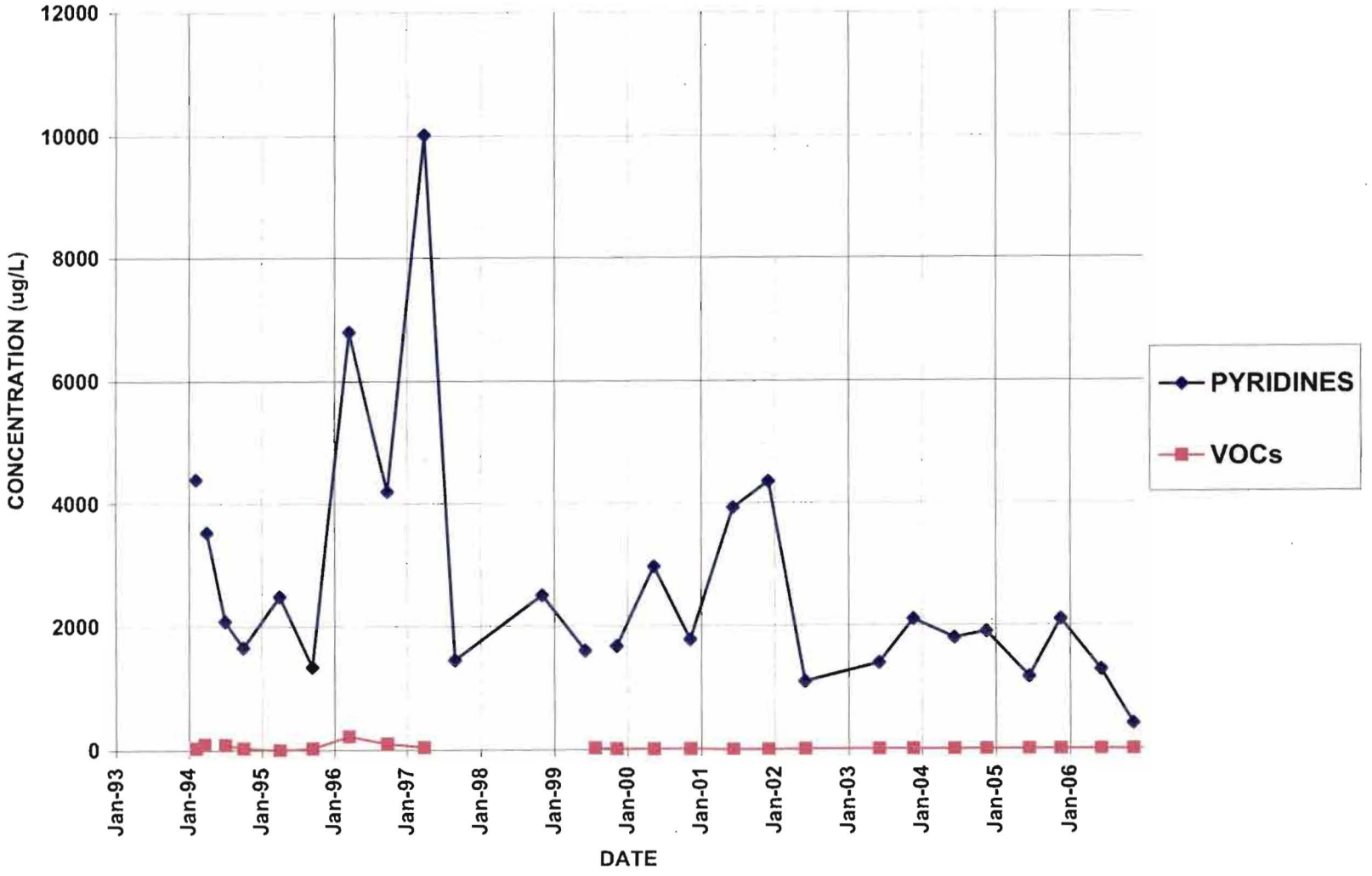


Prepared by: nmb
Reviewed by: jeb



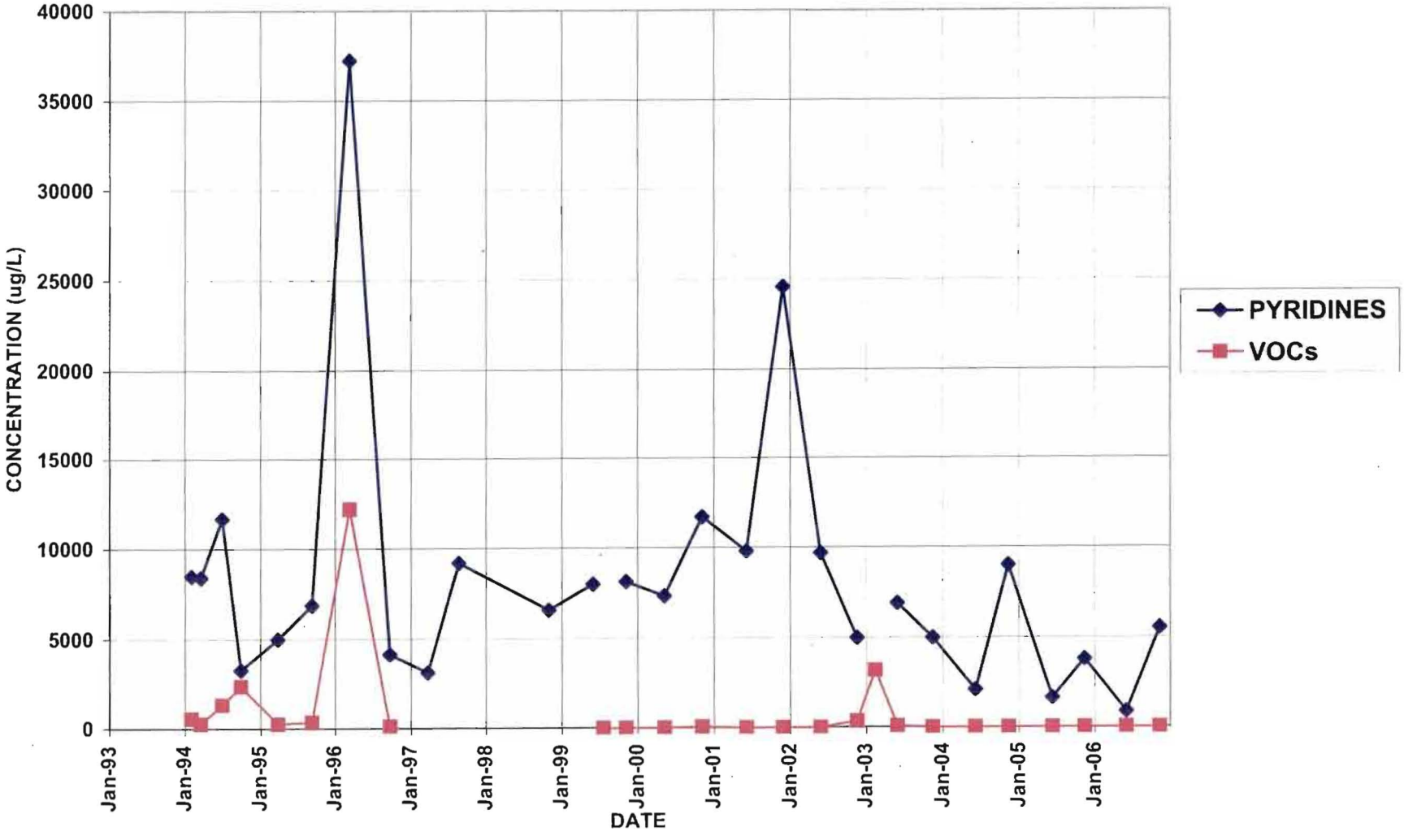
Prepared by: nmb
Reviewed by: jeb

BR-105D



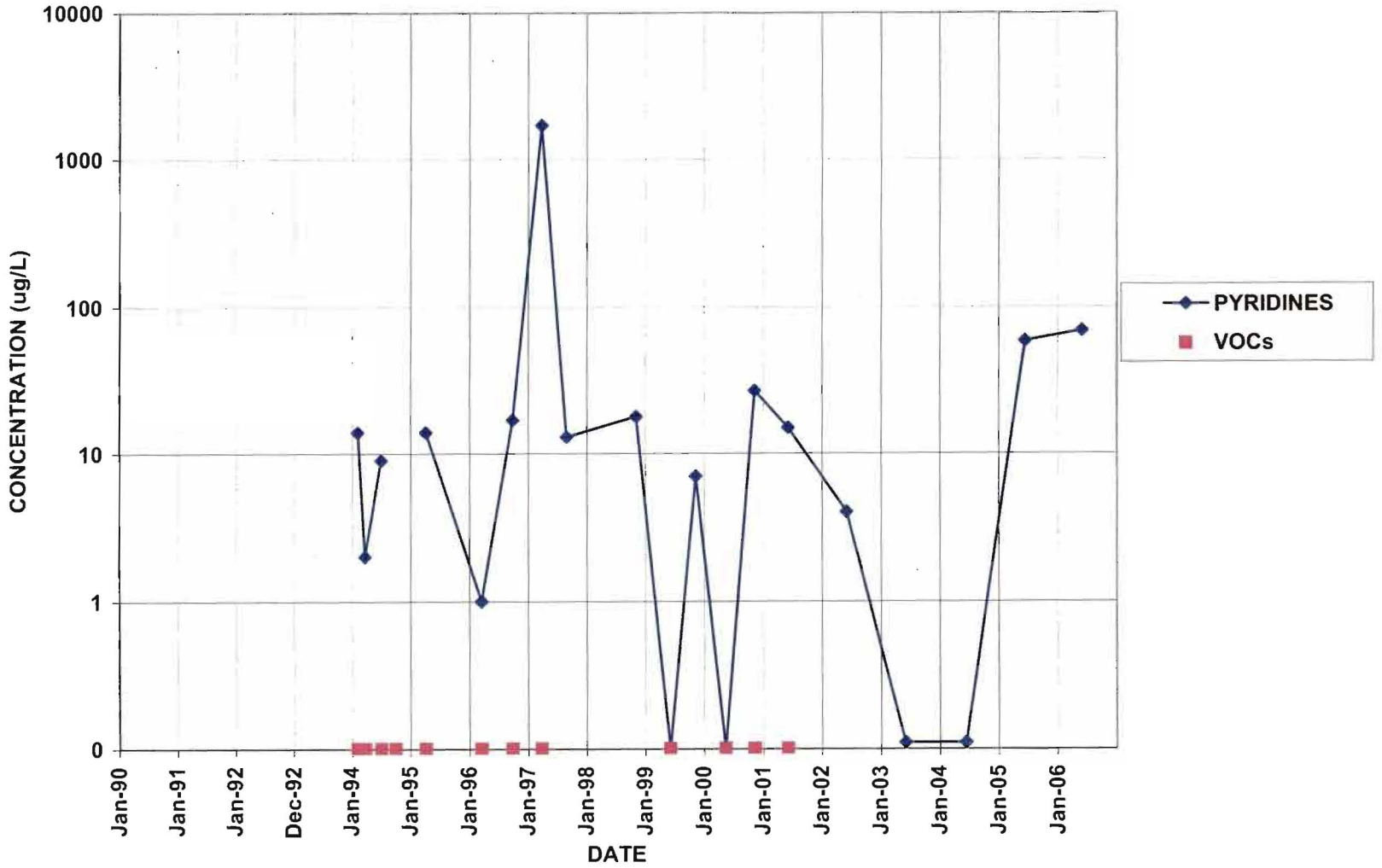
Prepared by: nmb
Reviewed by: jeb

BR-106



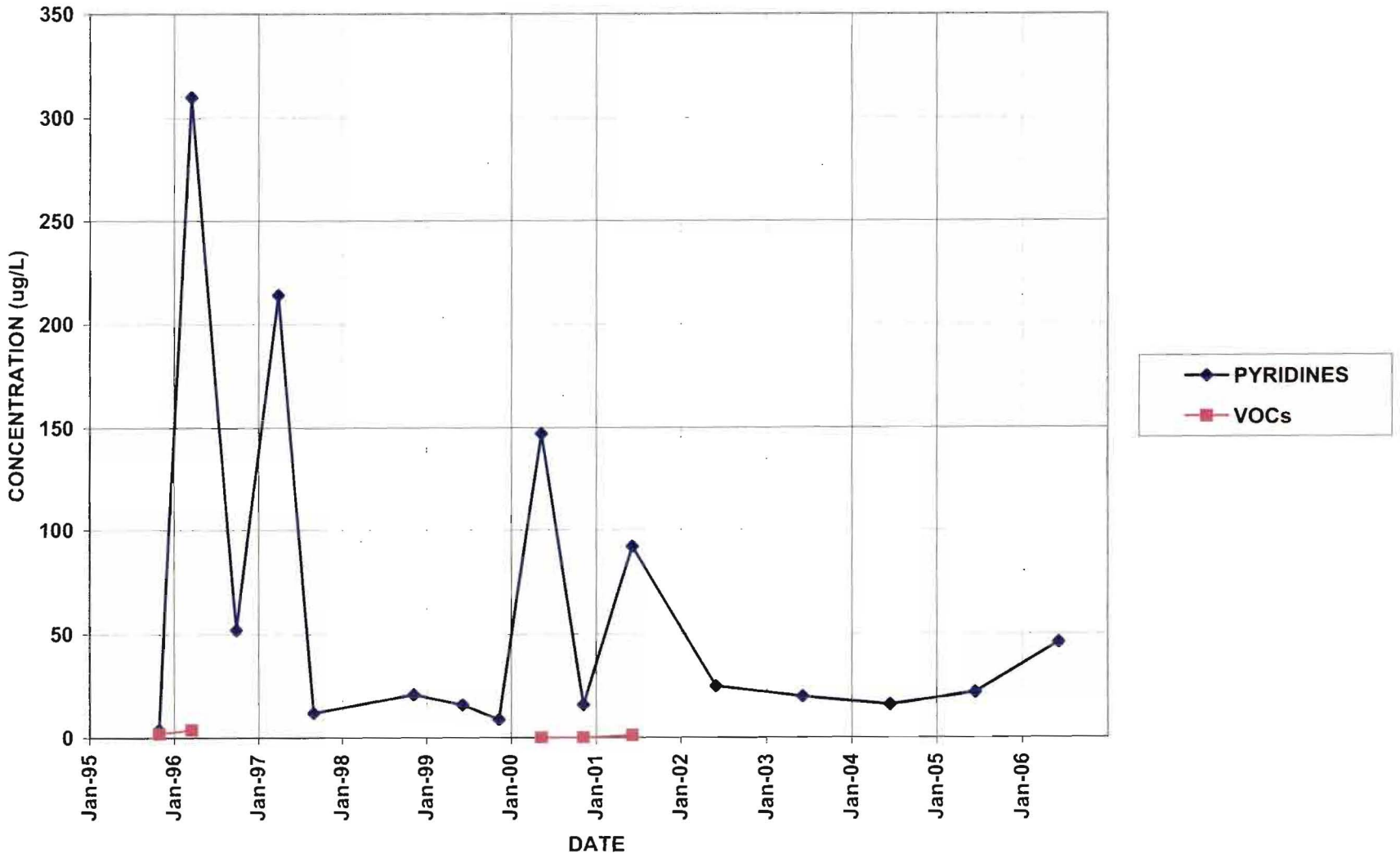
Prepared by: nmb
Reviewed by: jeb

BR-108



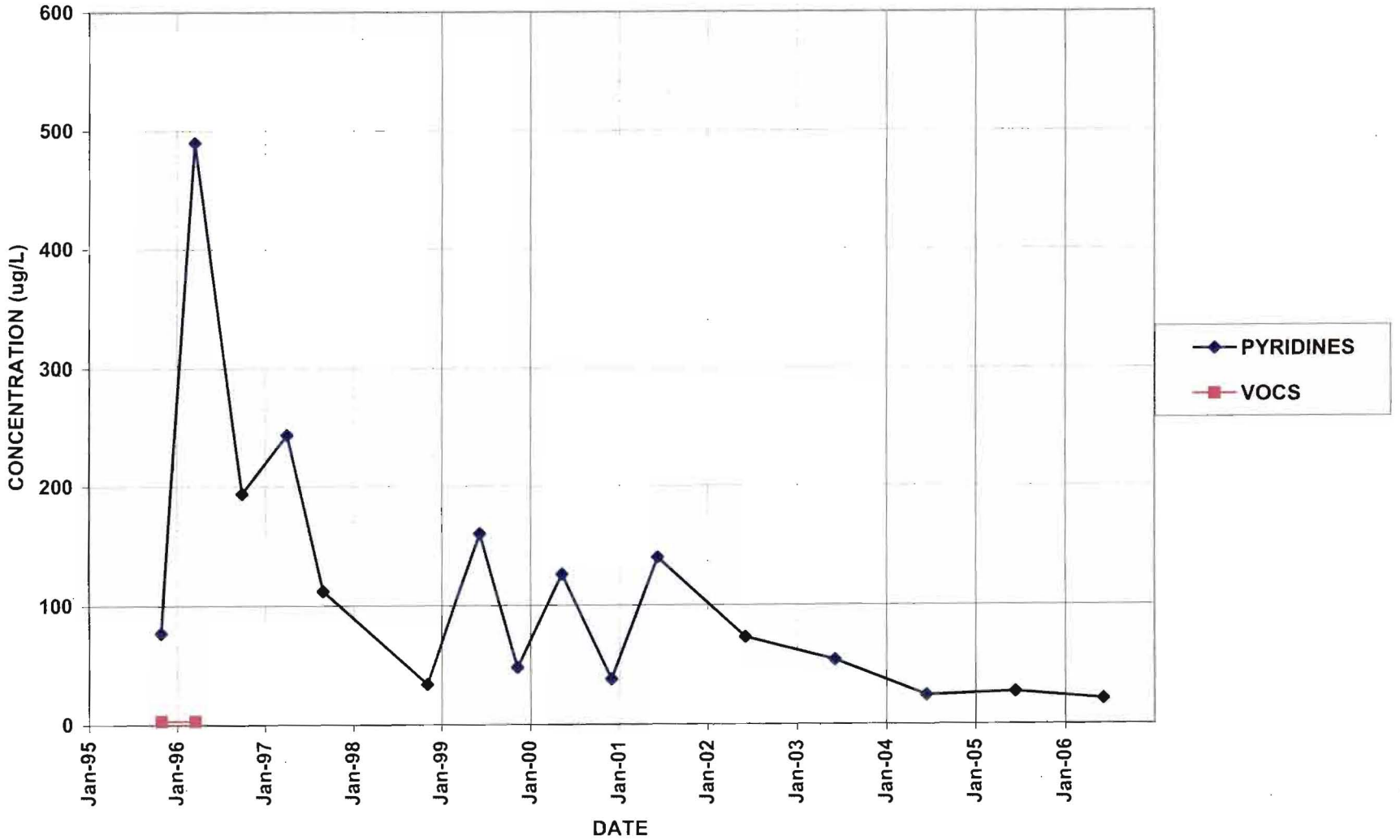
Prepared by: nmb
Reviewed by: jeb

BR-112D



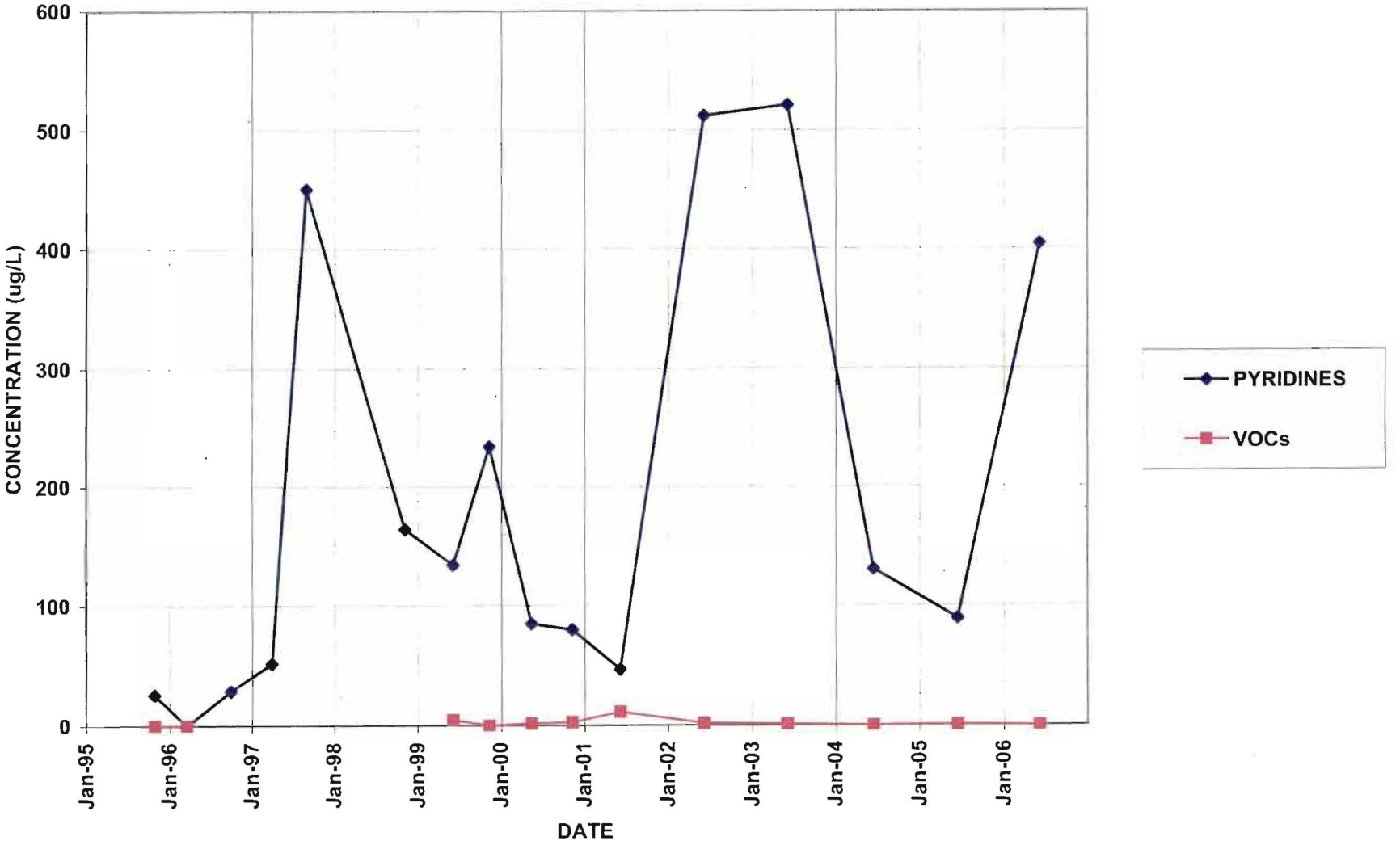
Prepared by: nmb
Reviewed by: jeb

BR-113D



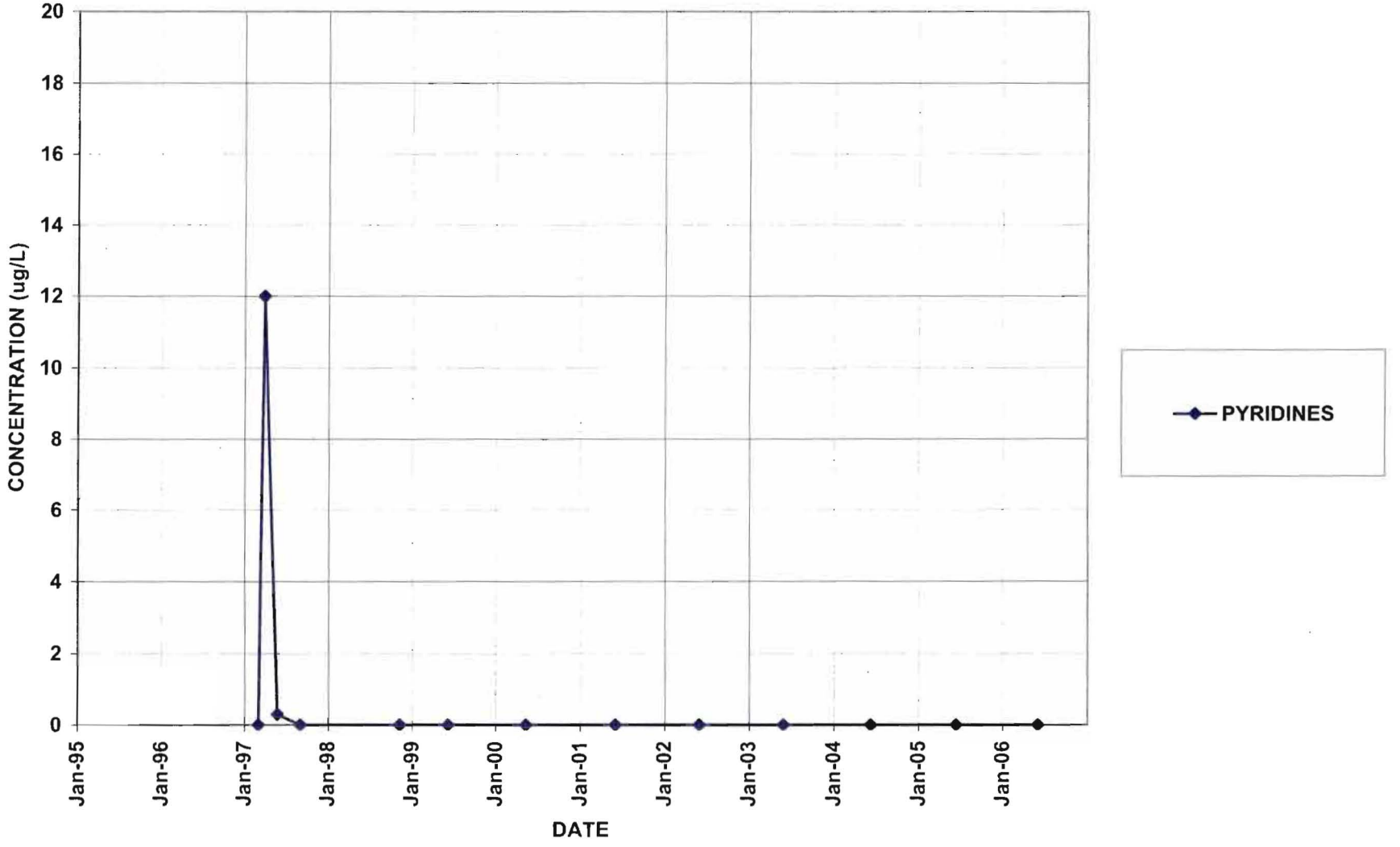
Prepared by: nmb
Reviewed by: jeb

BR-114



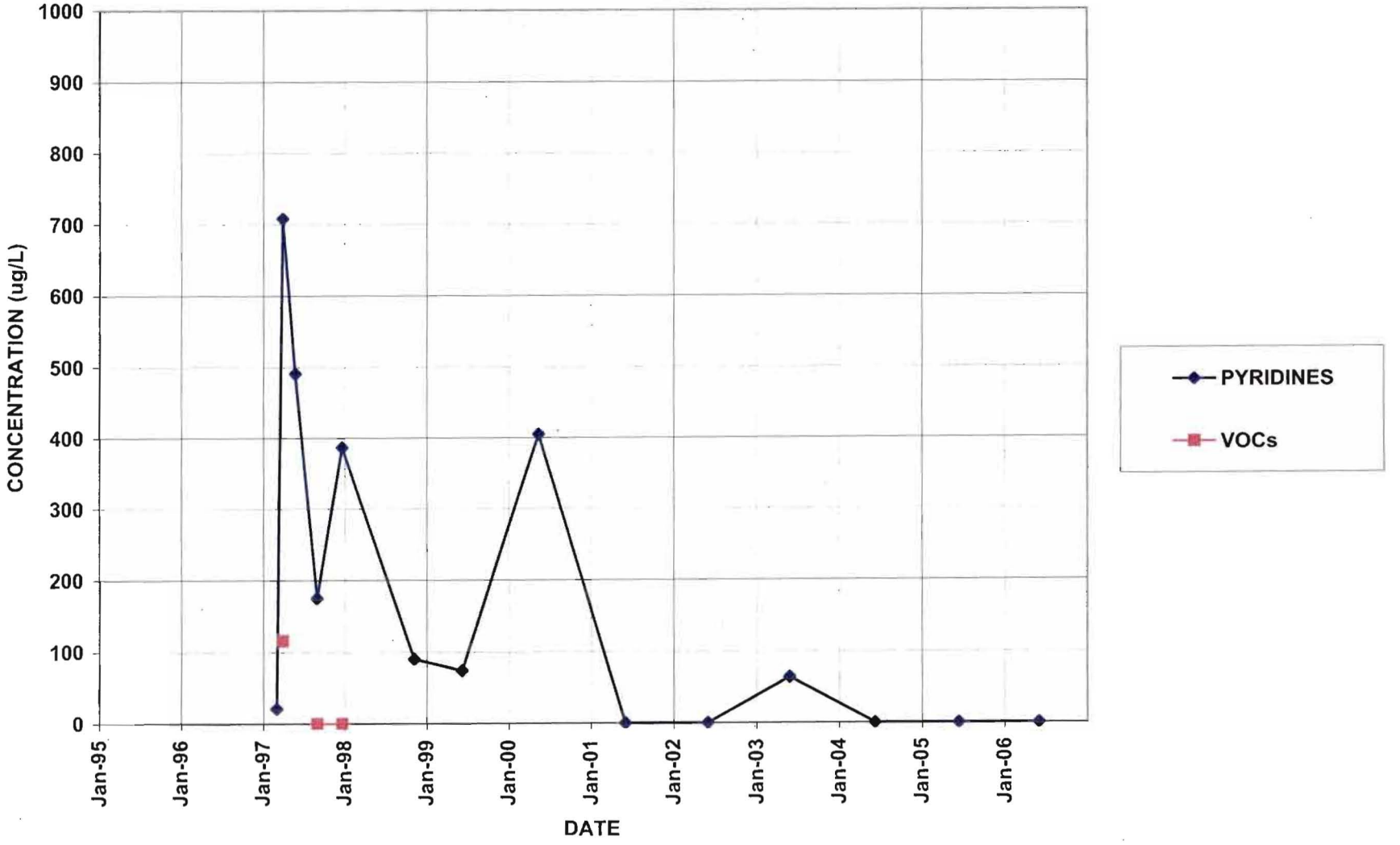
Prepared by: nmb
Reviewed by: jeb

BR-116



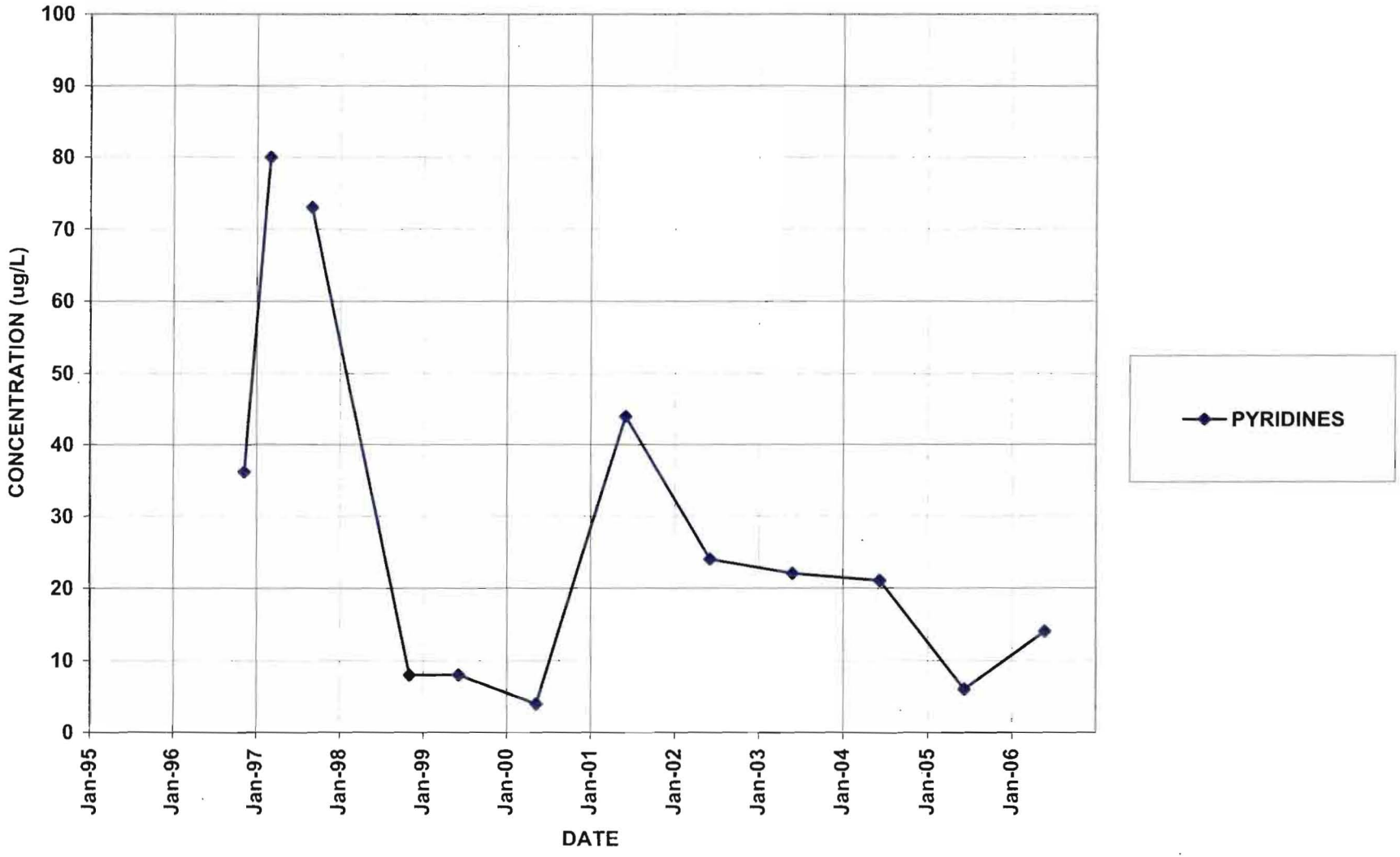
Prepared by: nmb
Reviewed by: jeb

BR-116D



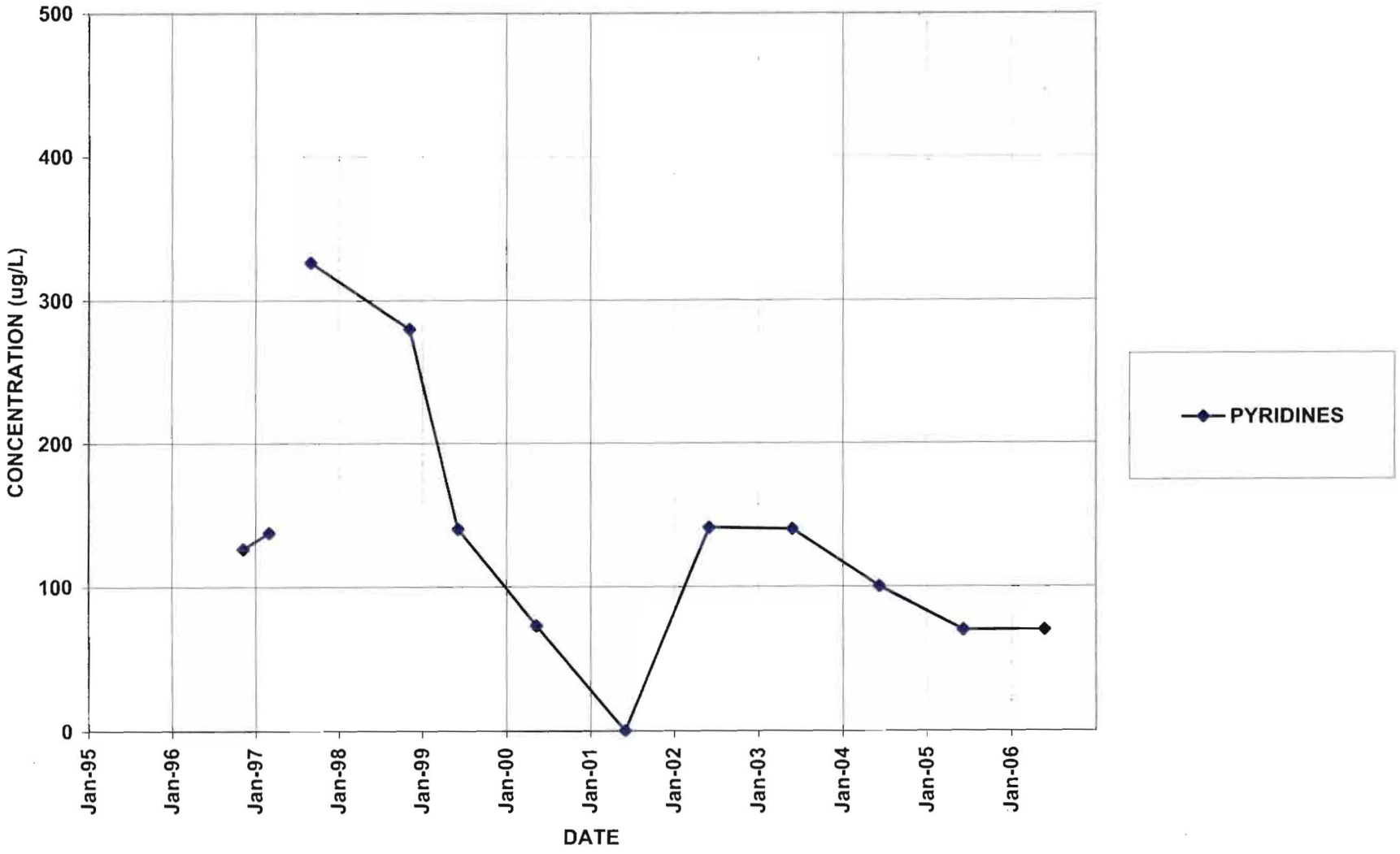
Prepared by: nmb
Reviewed by: jeb

BR-117D



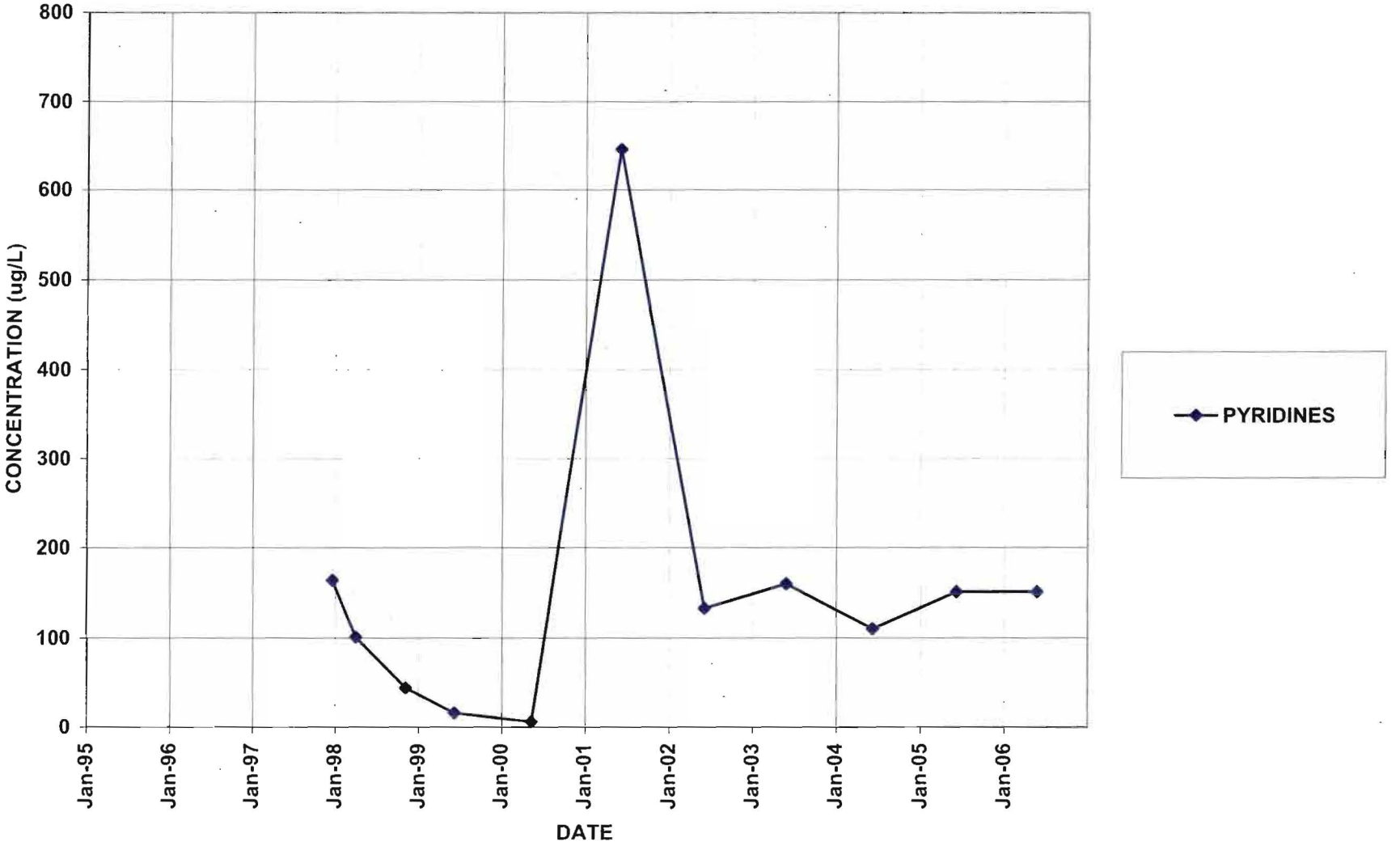
Prepared by: nmb
Reviewed by: jeb

BR-118D



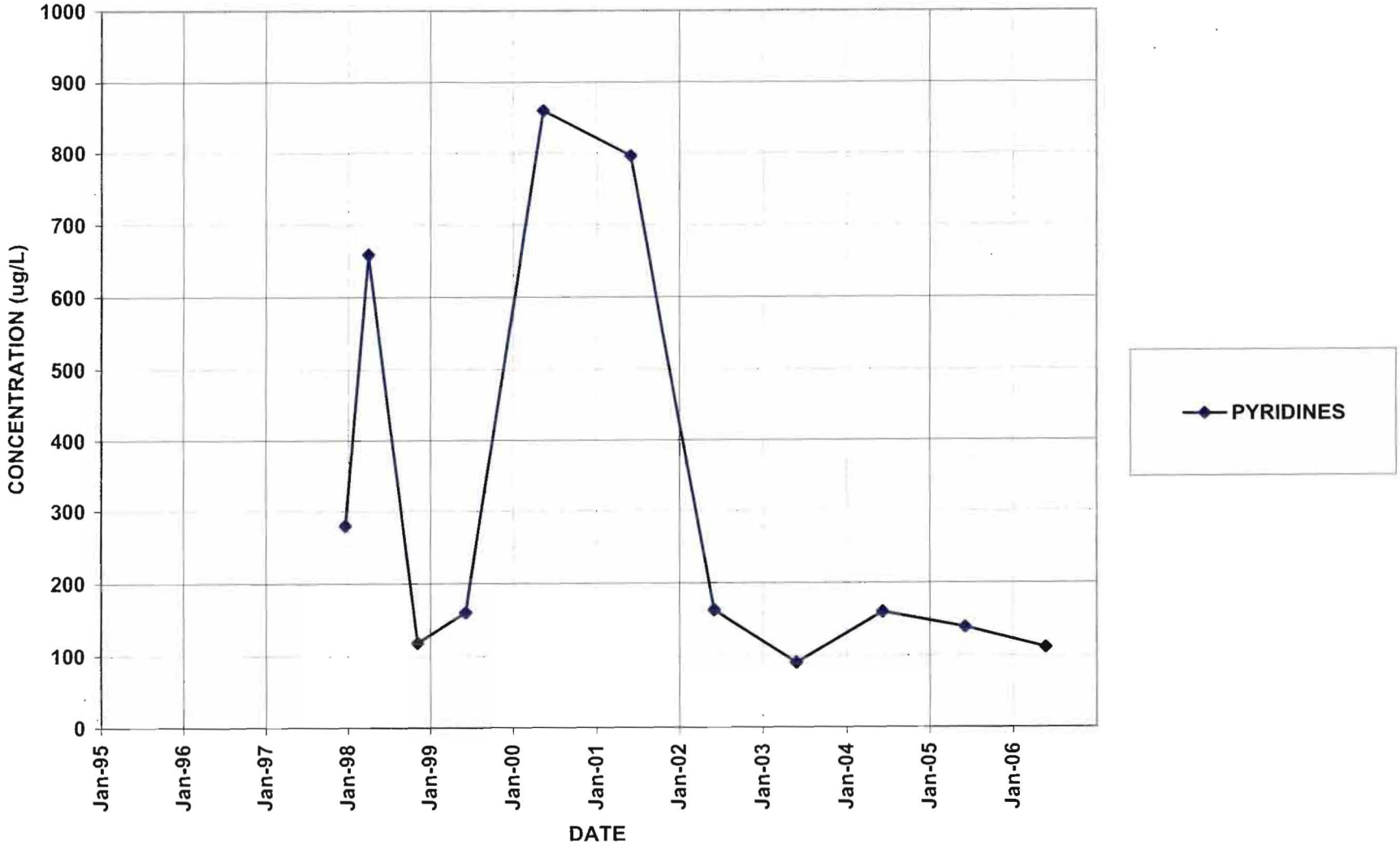
Prepared by: nmb
Reviewed by: jeb

BR-122D



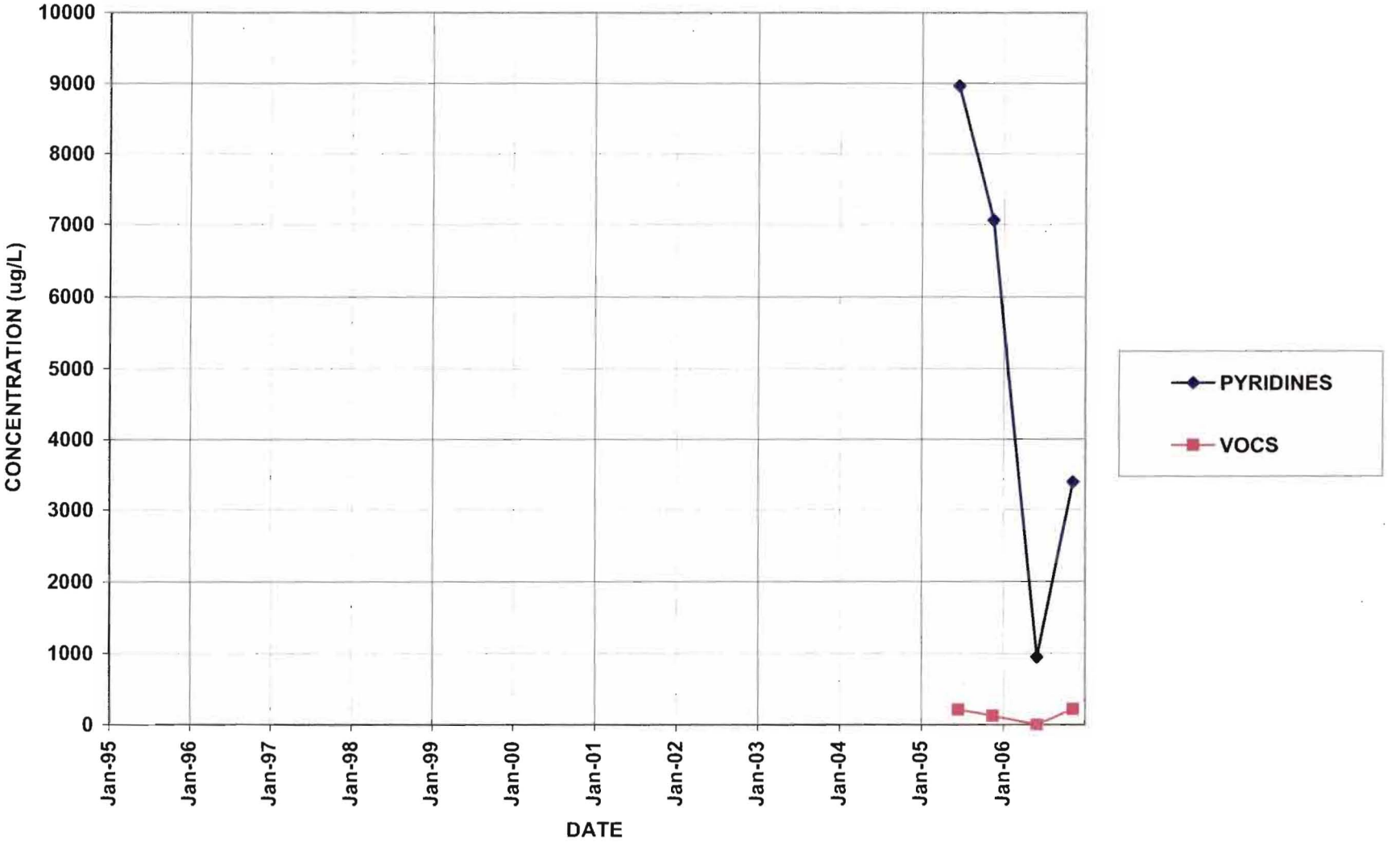
Prepared by: nmb
Reviewed by: jcb

BR-123D



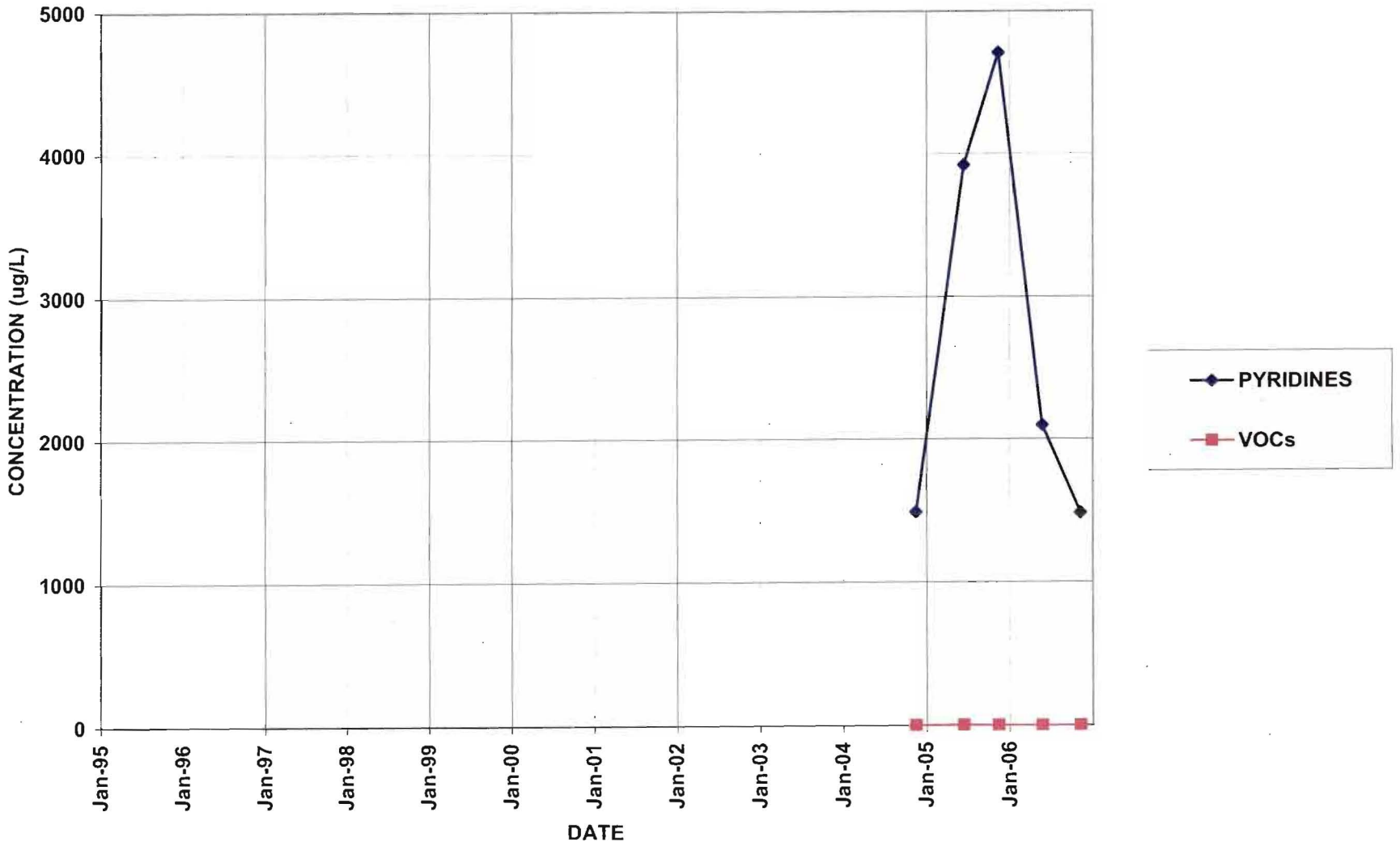
Prepared by: nmb
Reviewed by: jeb

BR-126

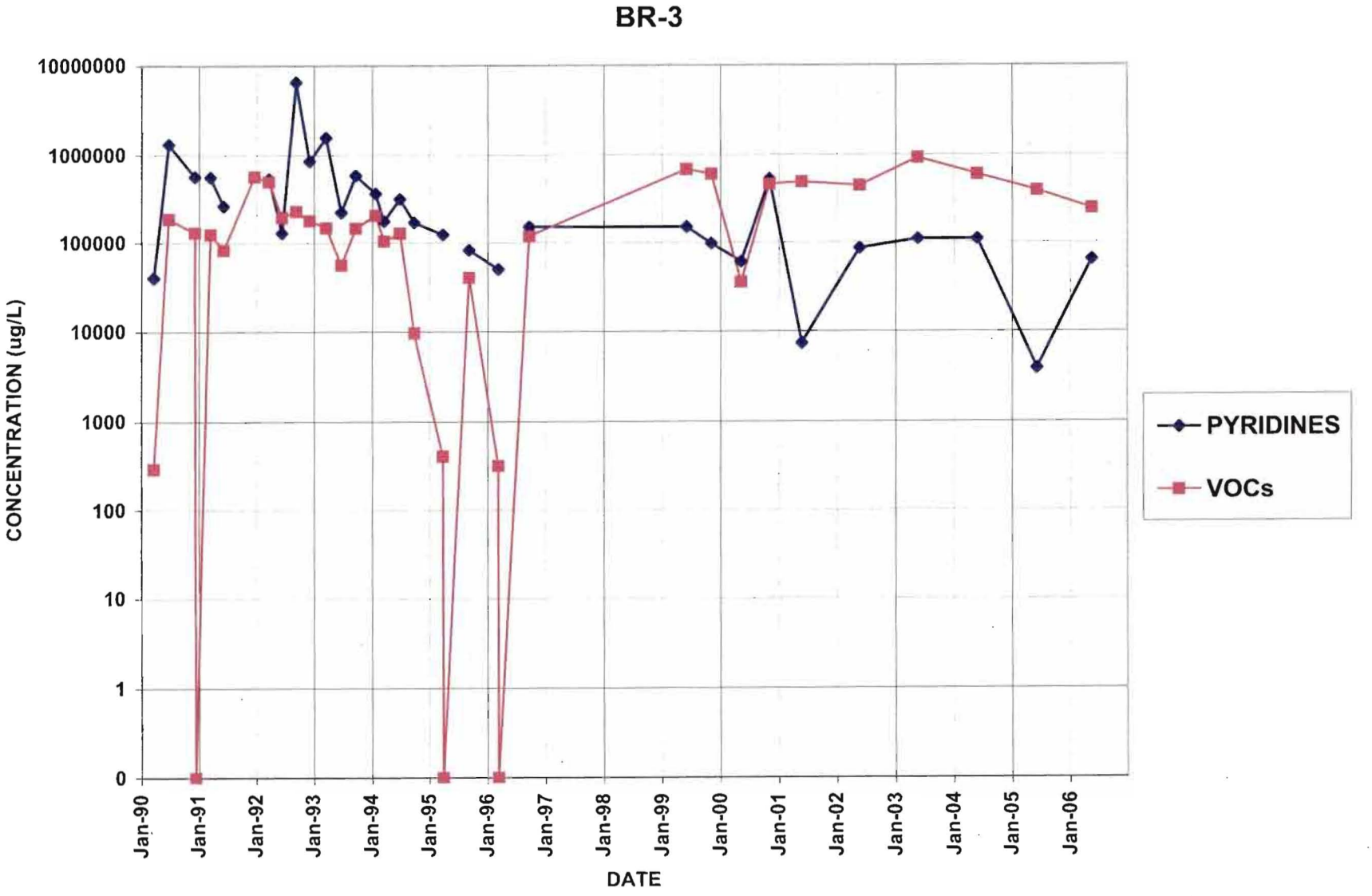


Prepared by: nmb
Reviewed by: jeb

BR-127

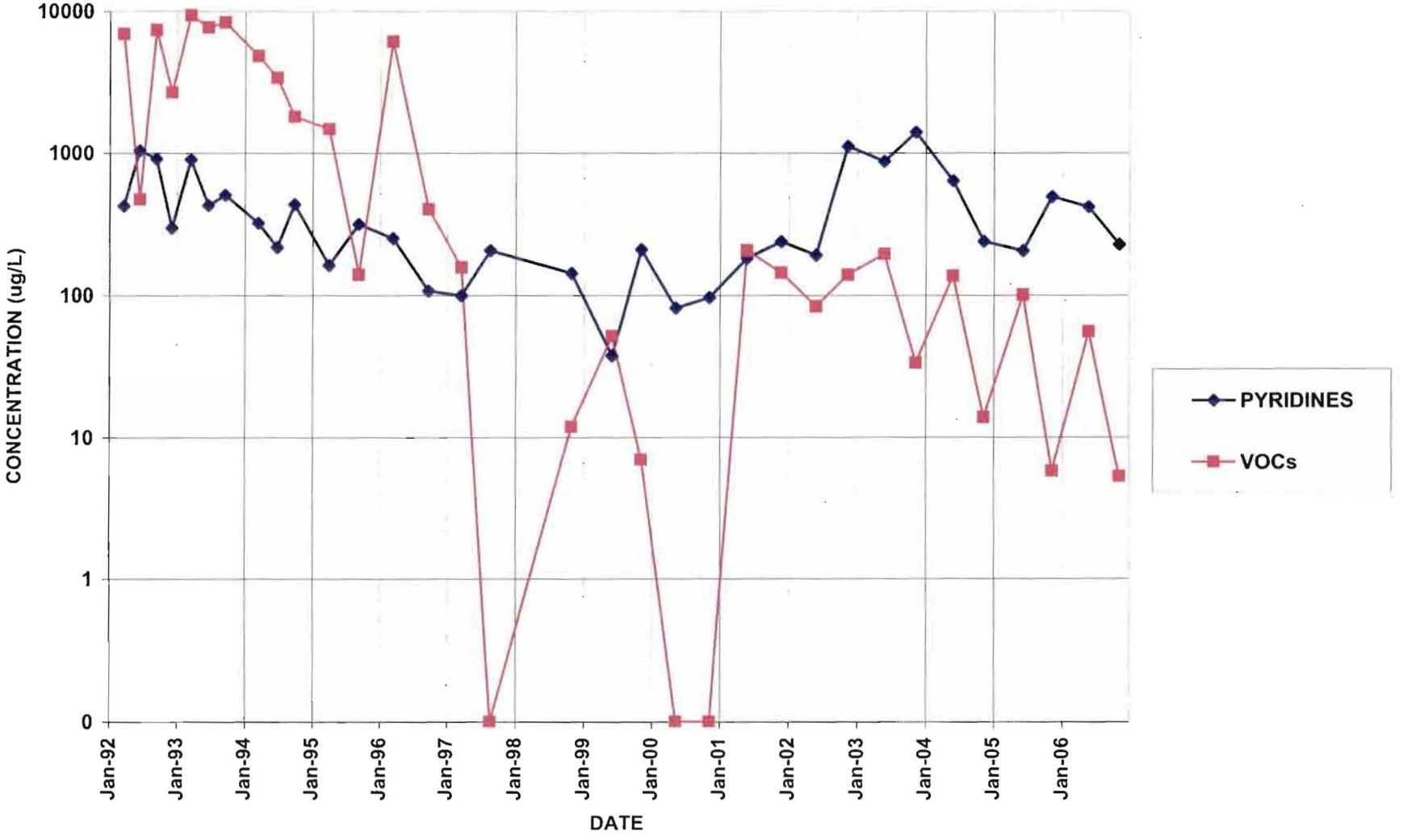


Prepared by: nmb
Reviewed by: jeb



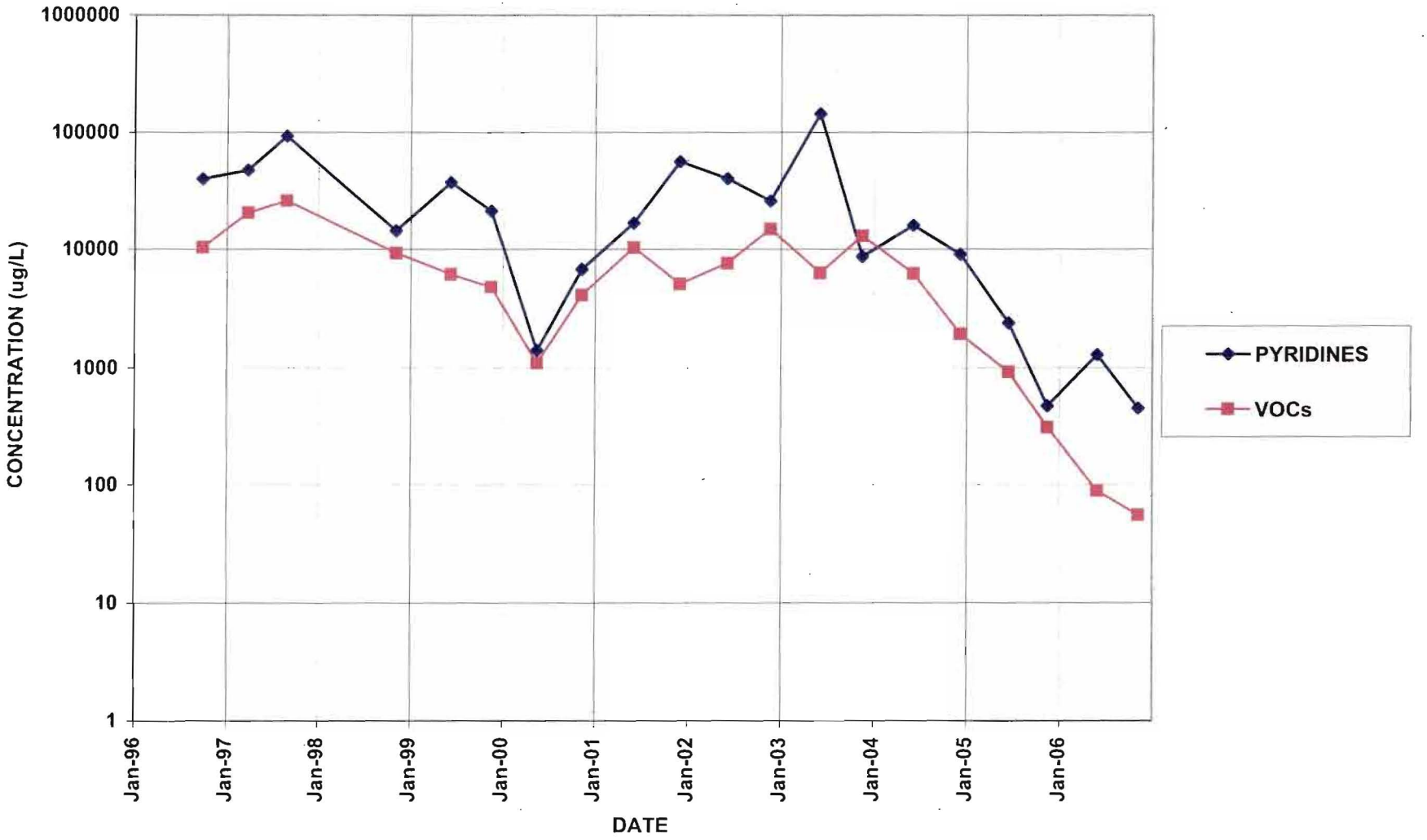
Prepared by: nmb
Reviewed by: jeb

BR-5A



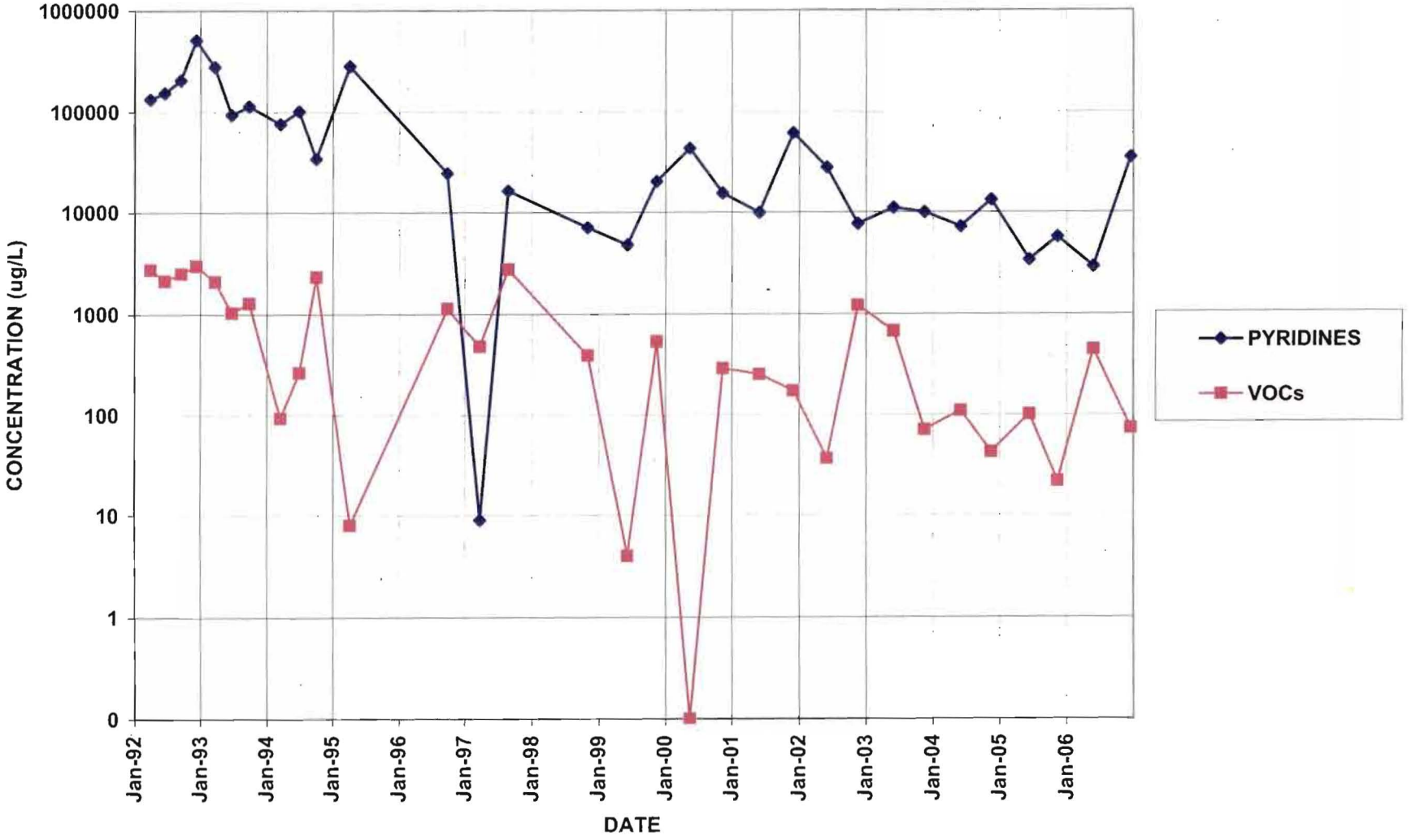
Prepared by: nmb
Reviewed by: jeb

BR-6A



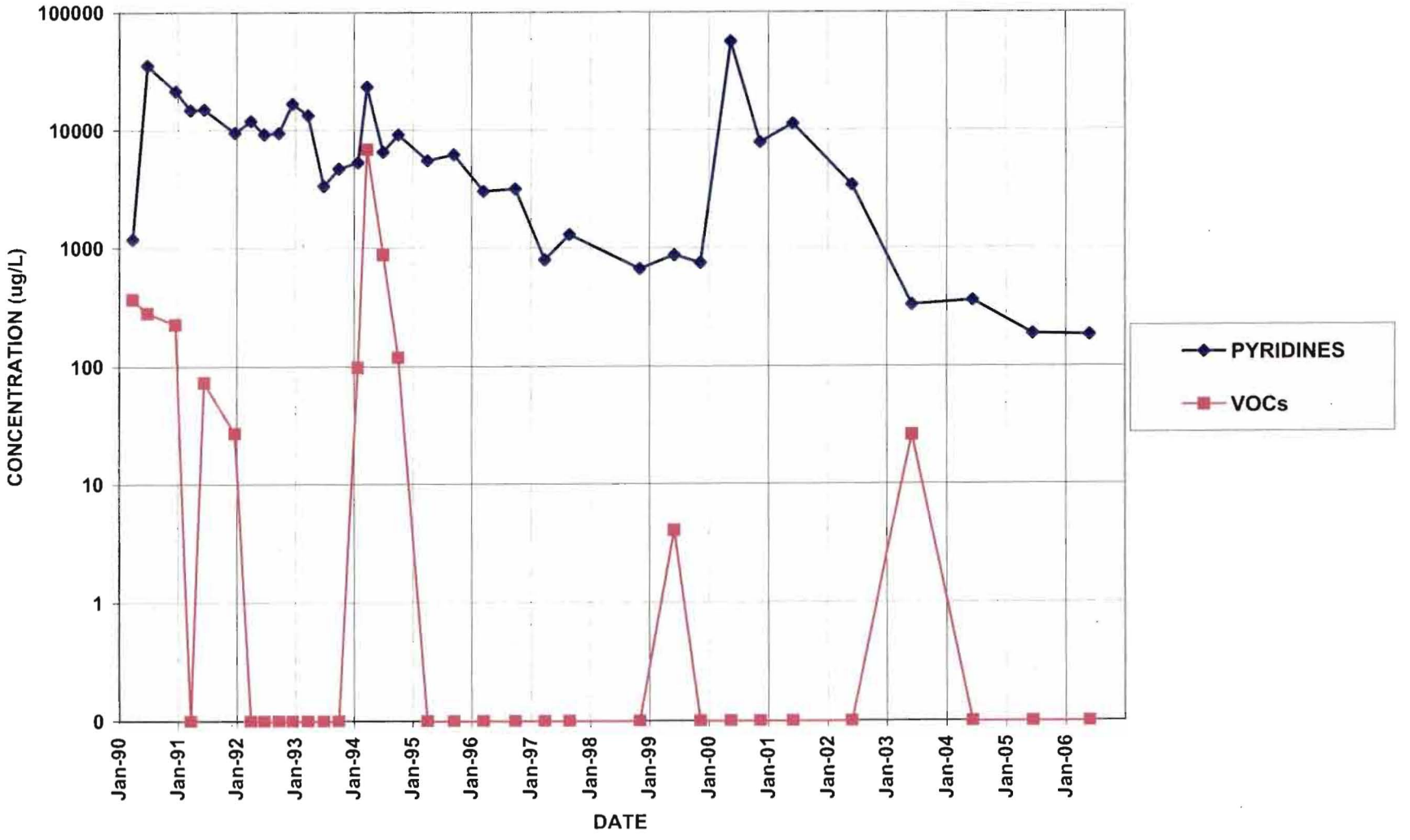
Prepared by: nmb
Reviewed by: jeb

BR-7A



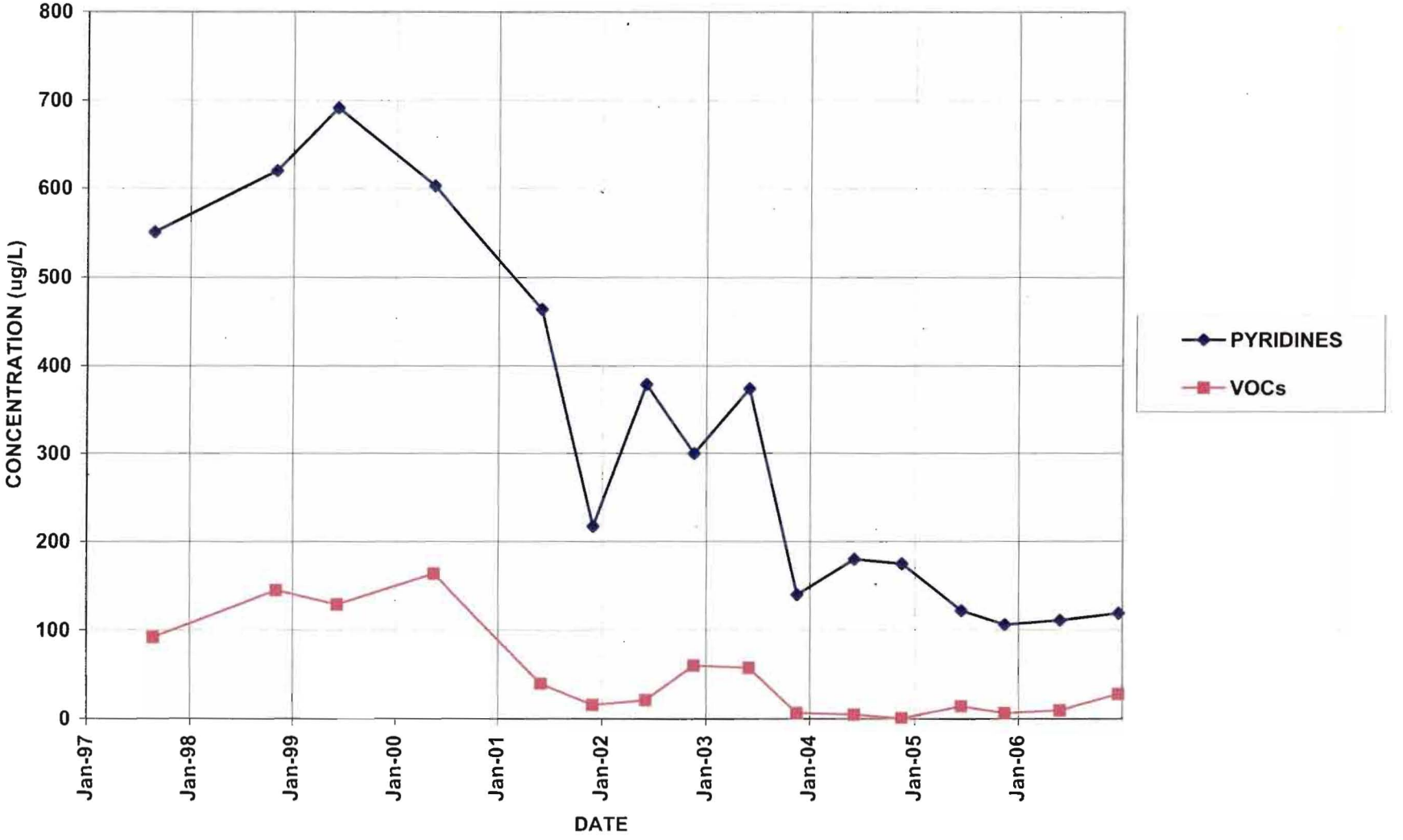
Prepared by: nmb
Reviewed by: jeb

BR-8



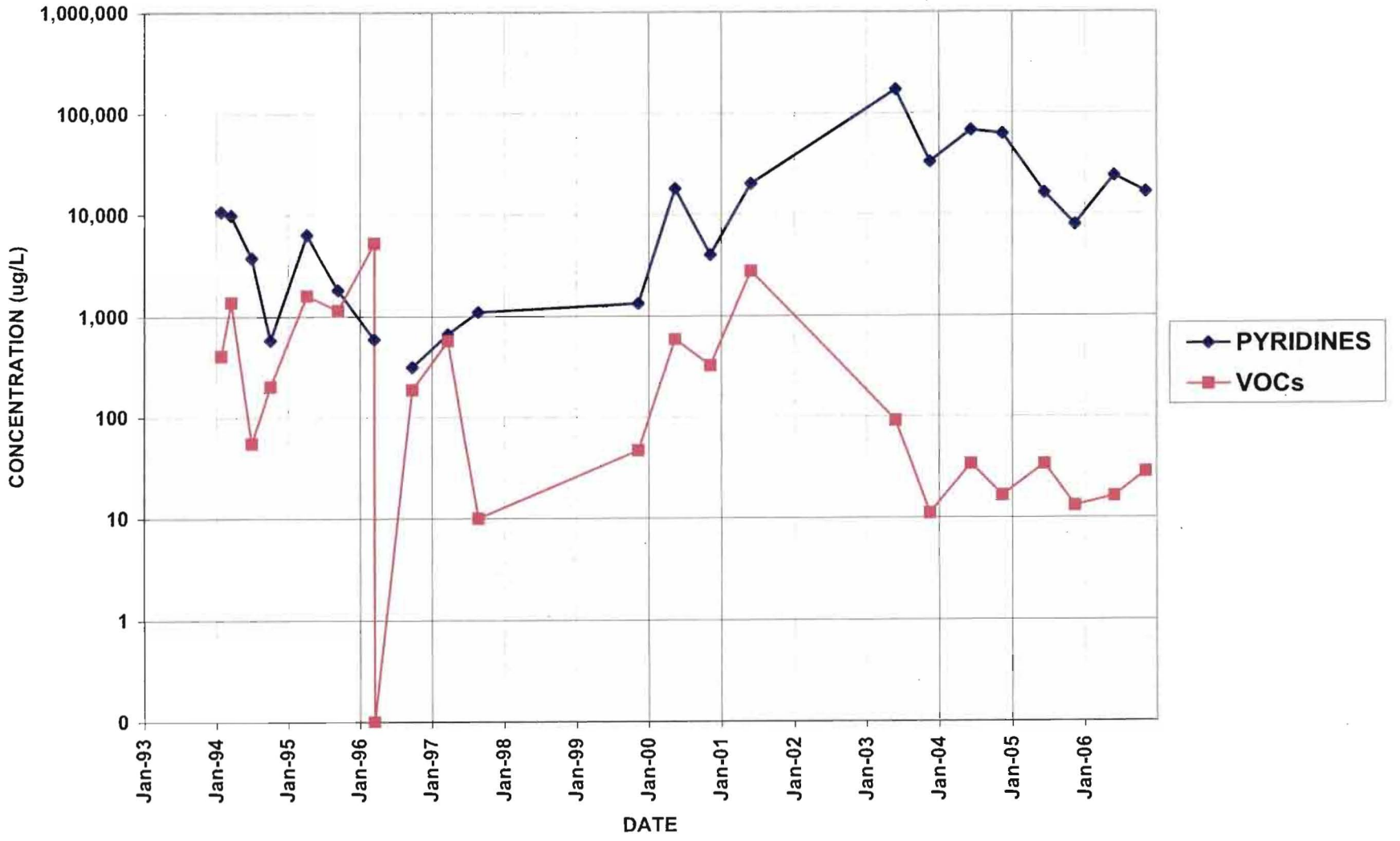
Prepared by: nmb
Reviewed by: jeb

BR-9



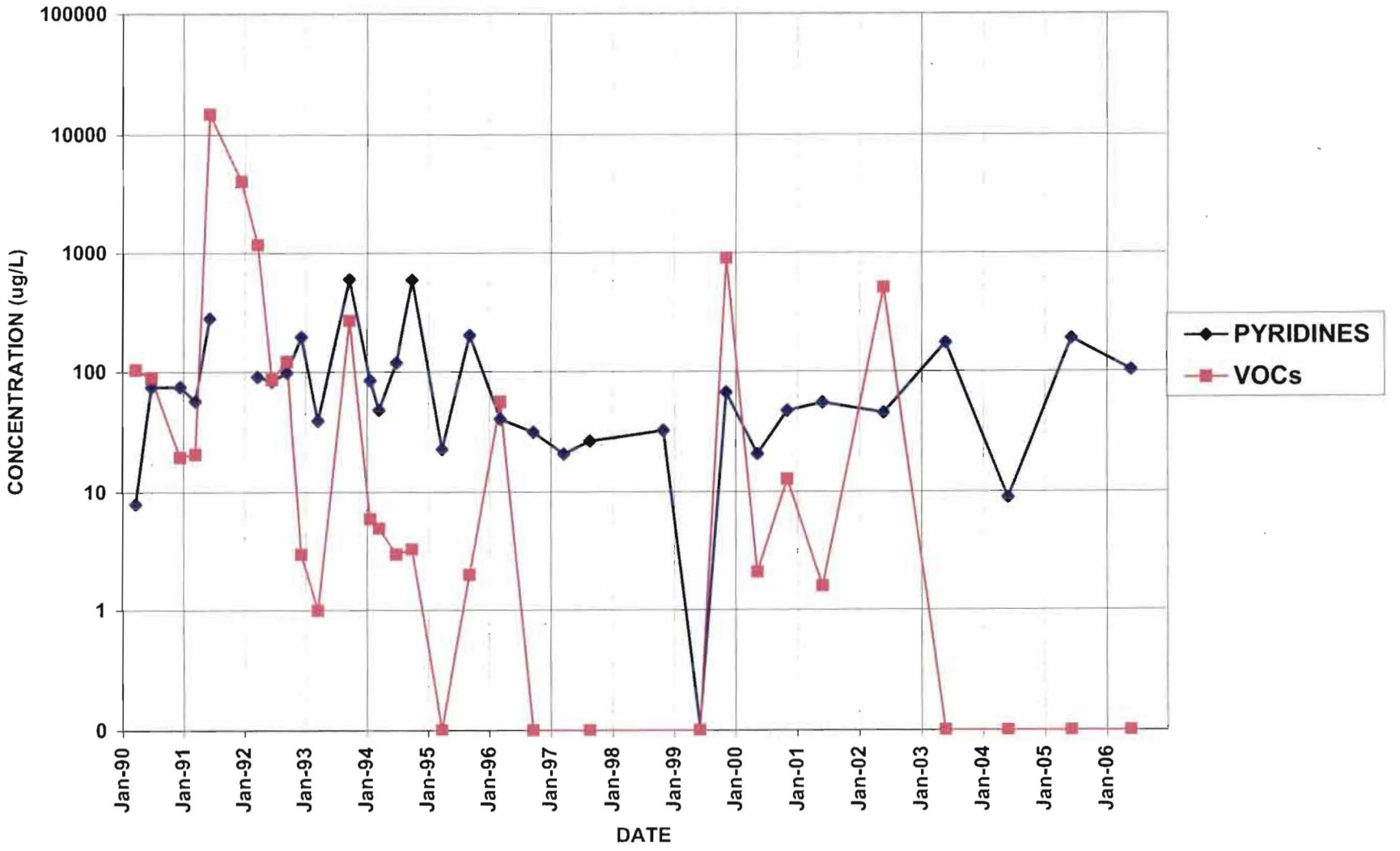
Prepared by: nmb
Reviewed by: jeb

E-1



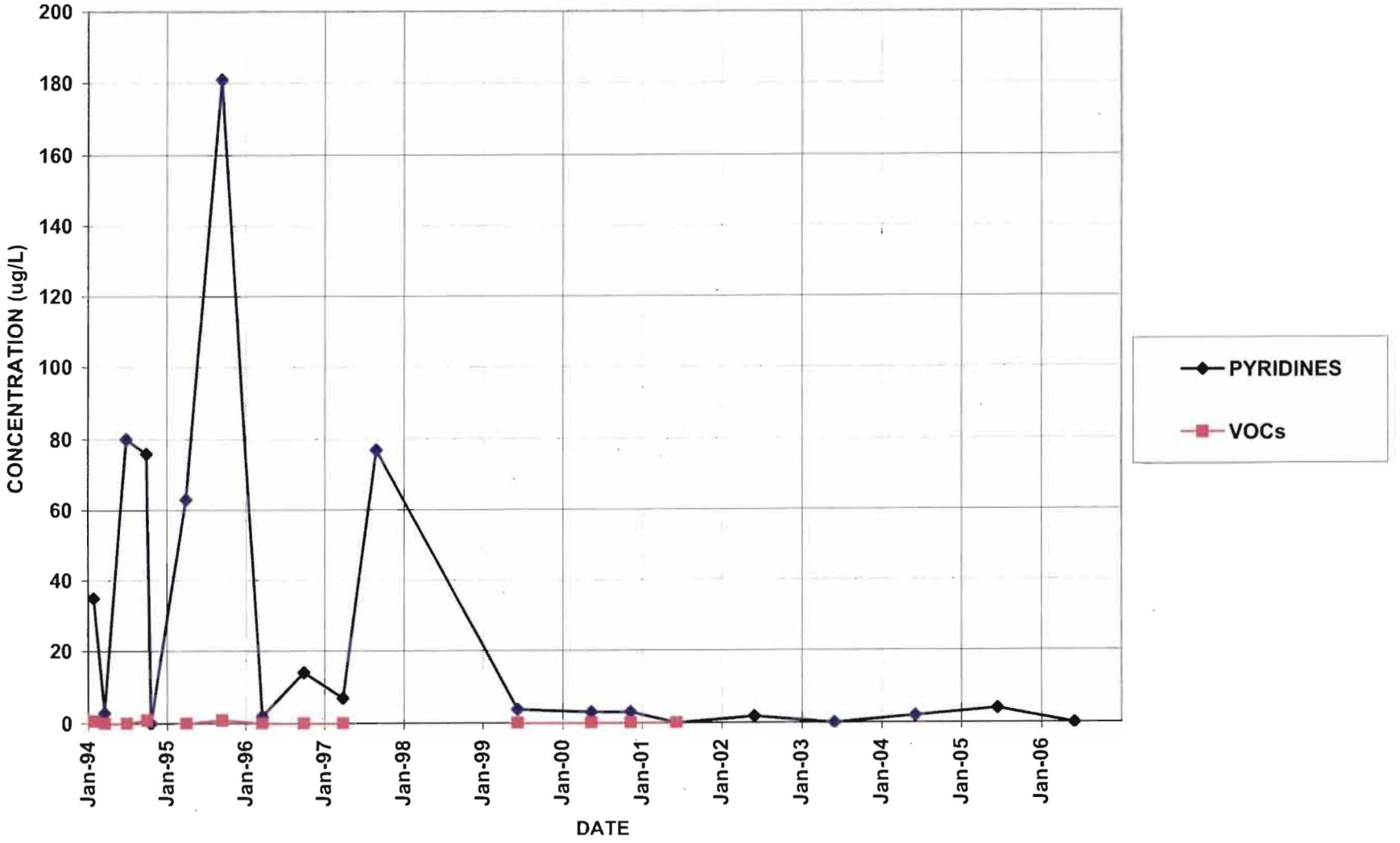
Prepared by: nmb
Reviewed by: jeb

E-3



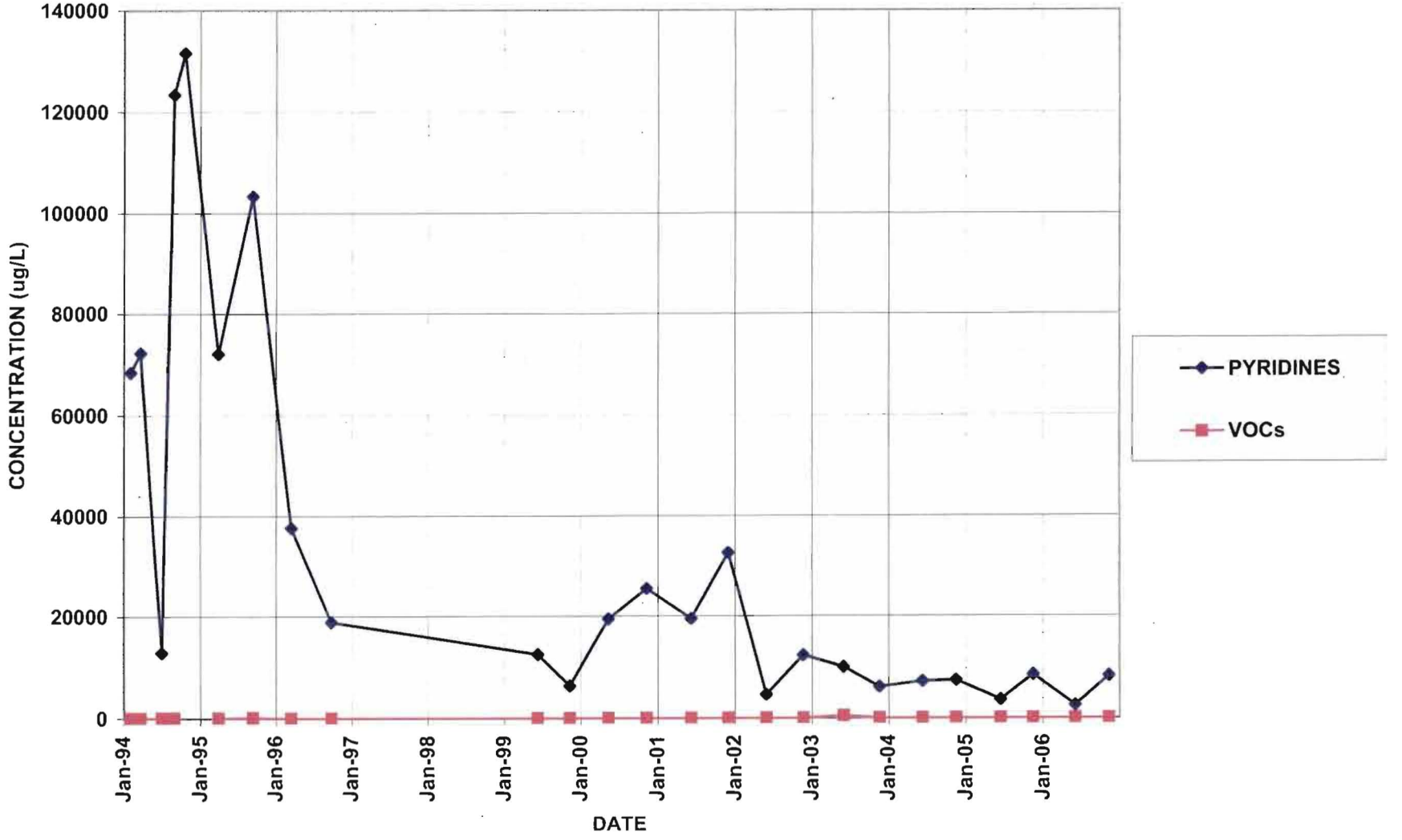
Prepared by: nmb
Reviewed by: jeb

MW-104



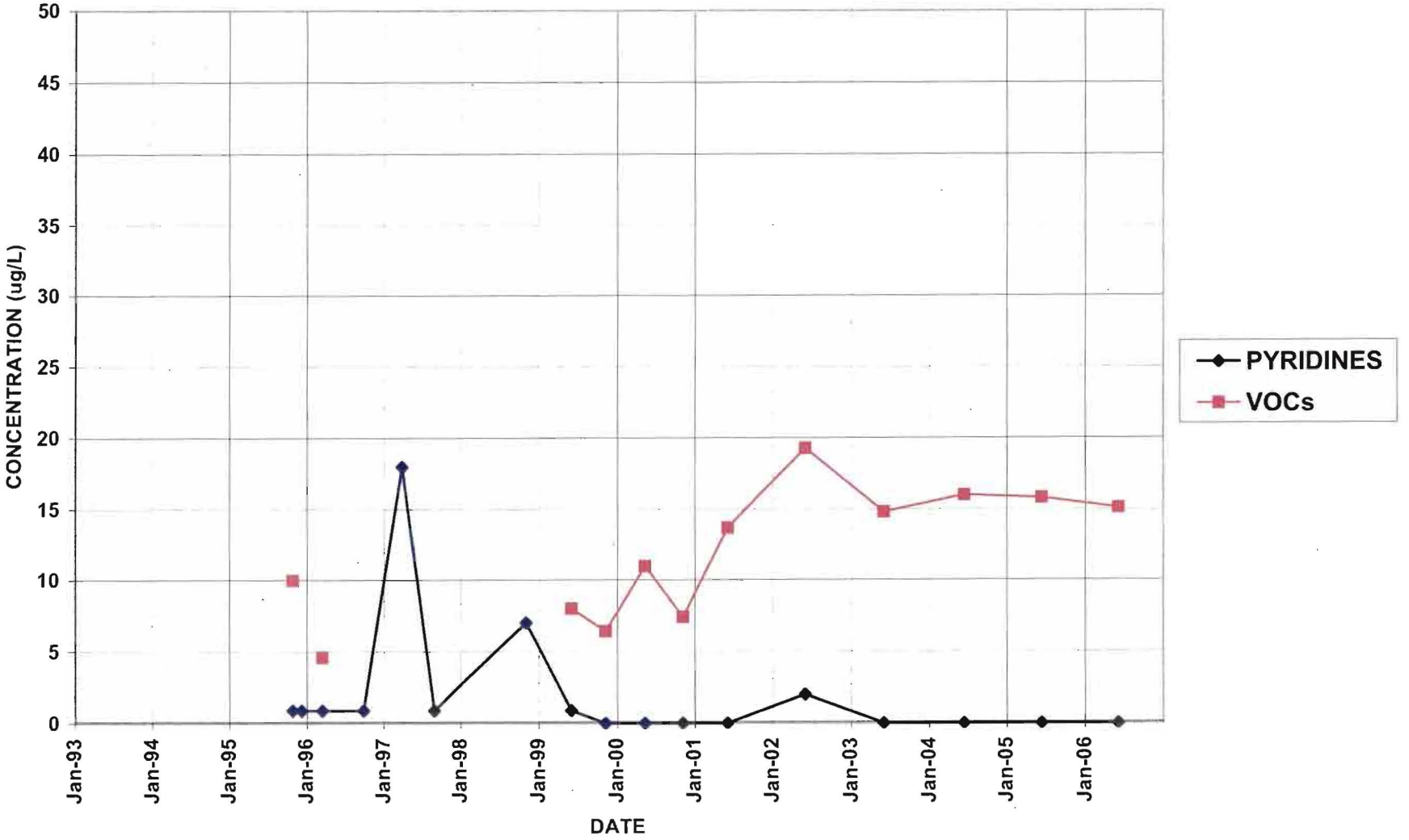
Prepared by: nmb
Reviewed by: jeb

MW-106



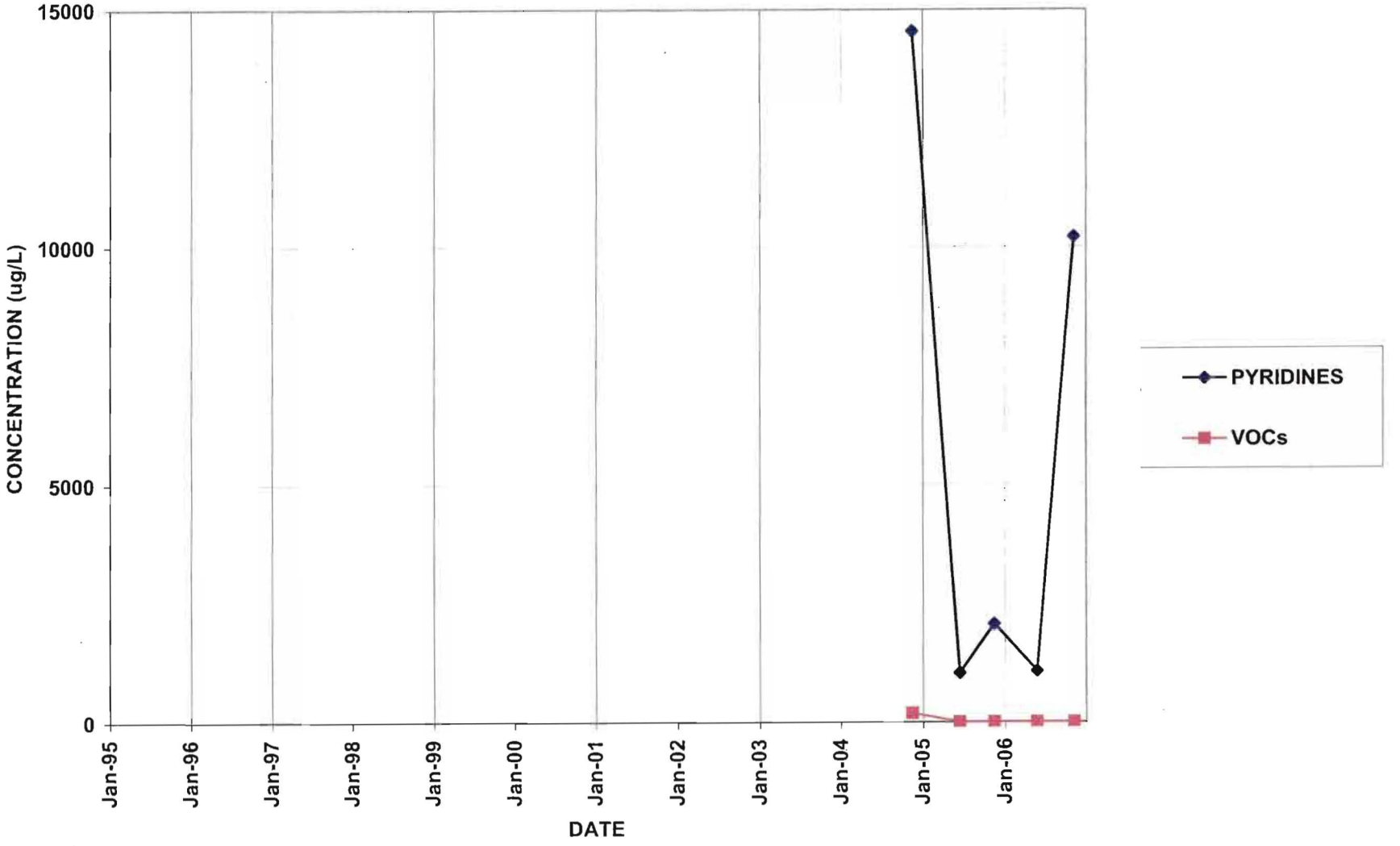
Prepared by: nmb
Reviewed by: jeb

MW-114



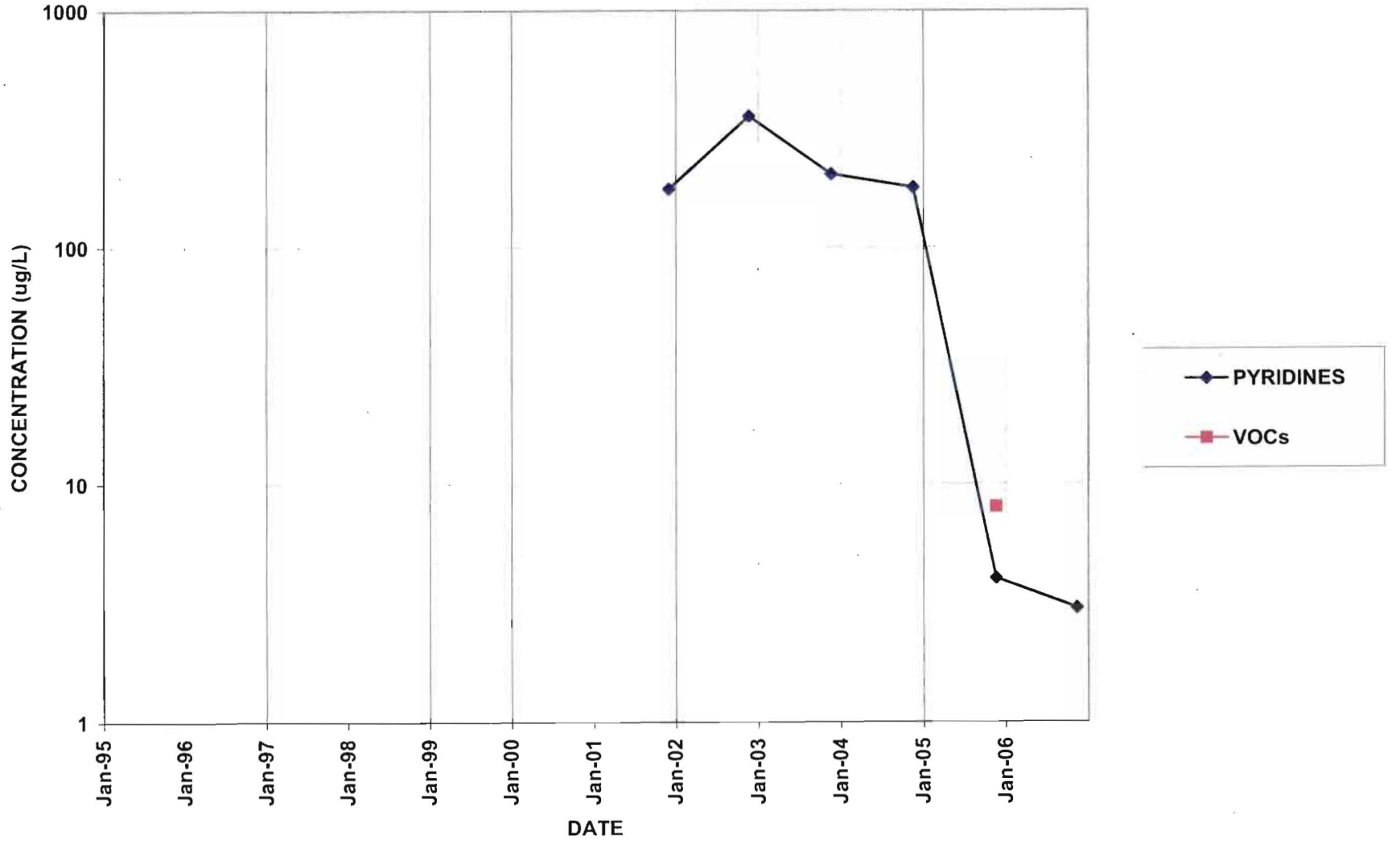
Prepared by: nmb
Reviewed by: jeb

MW-127



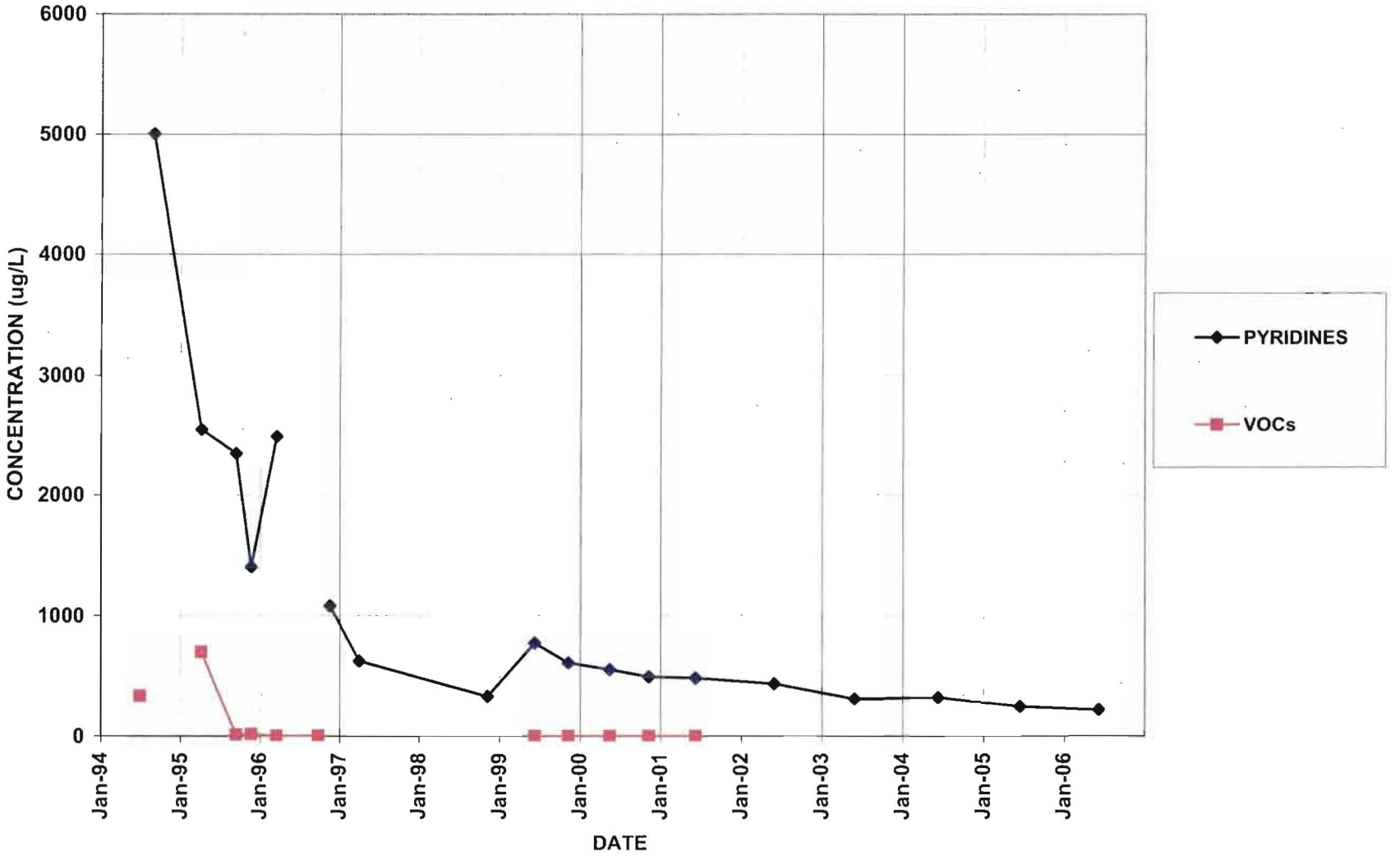
Prepared by: nmb
Reviewed by: jeb

MW-16



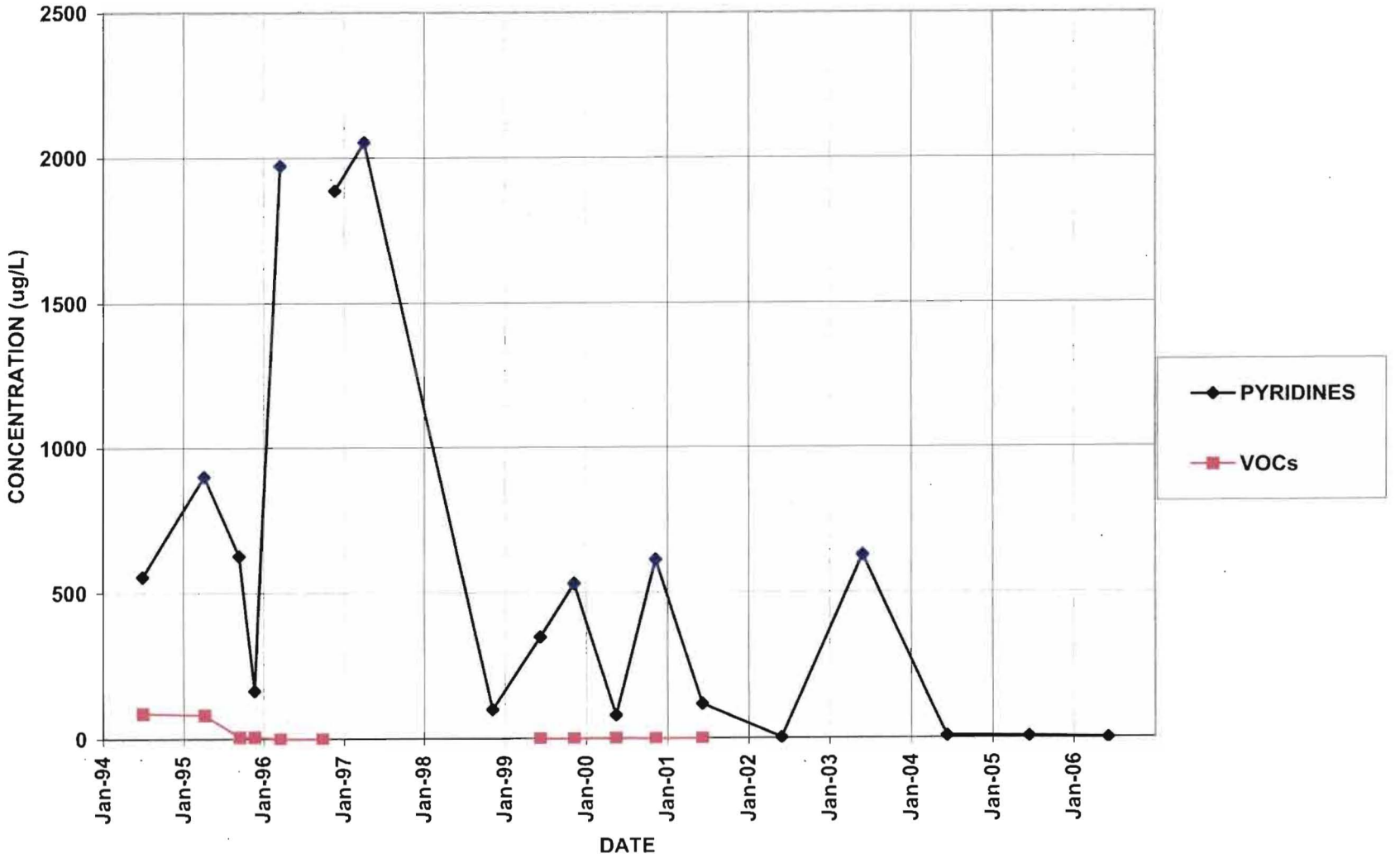
Prepared by: nmb
Reviewed by: jeb

NESS-E



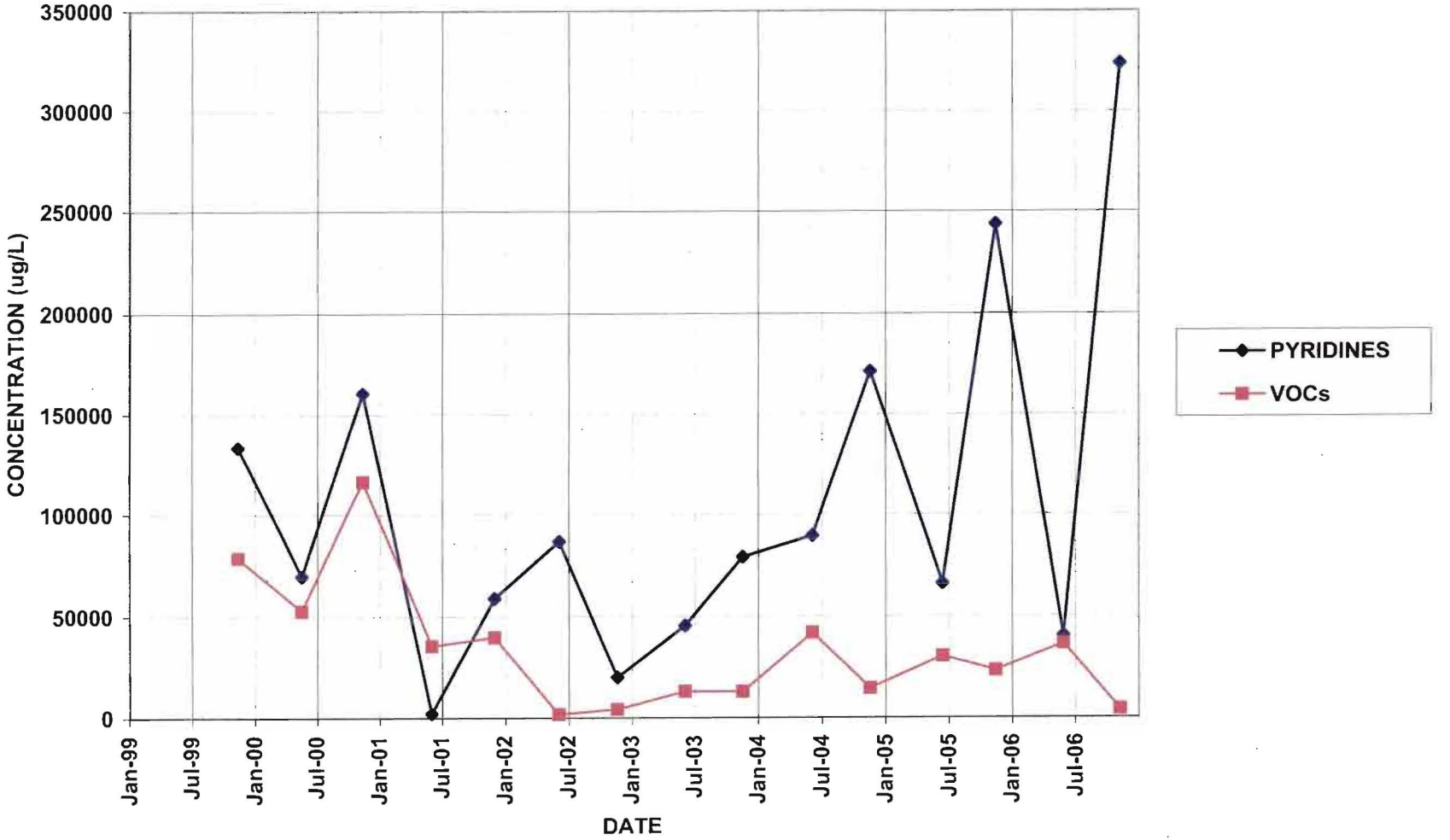
Prepared by: nmb
Reviewed by: jeb

NESS-W



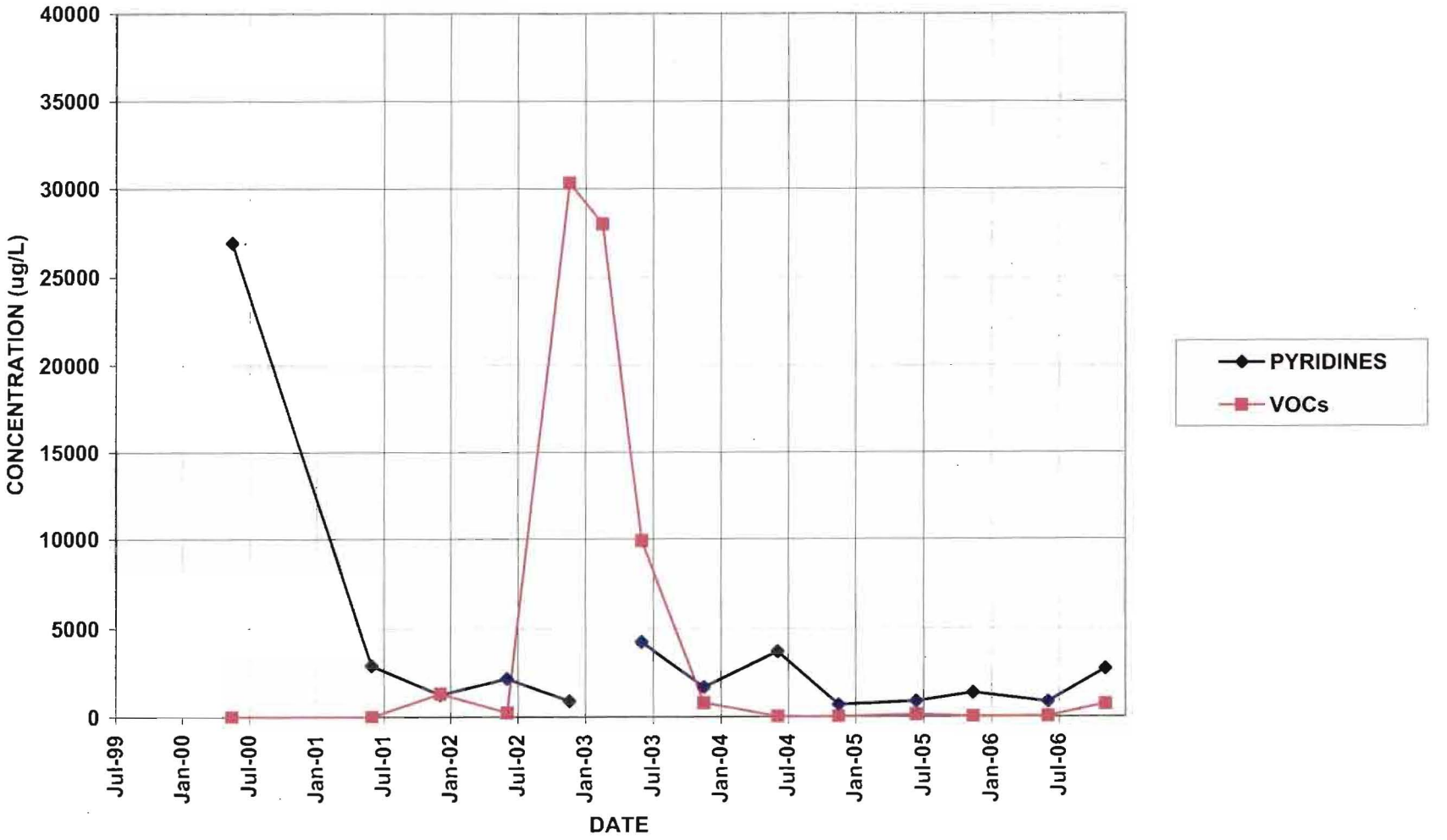
Prepared by: nmb
Reviewed by: jeb

PW10



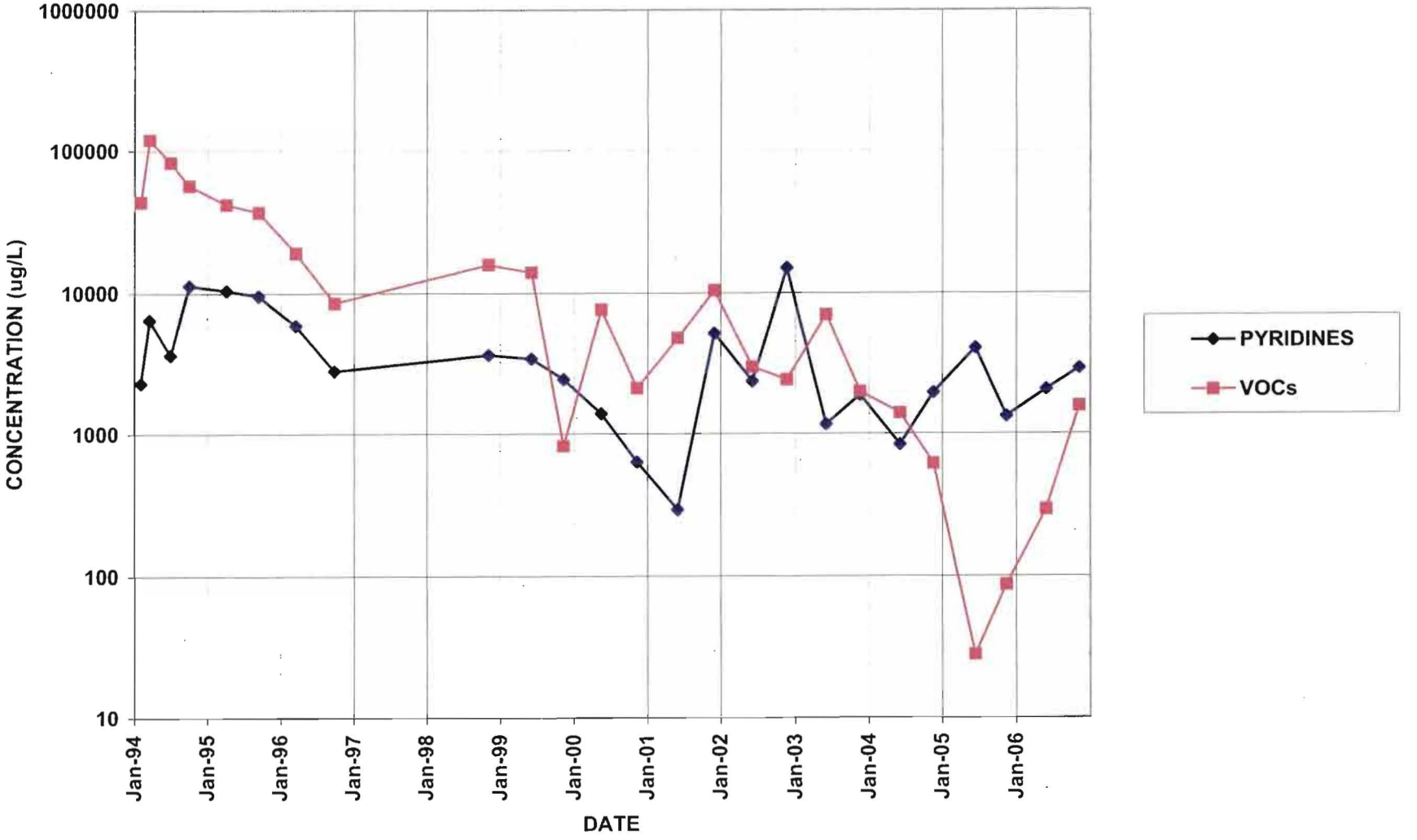
Prepared by: nmb
Reviewed by: jeb

PW11



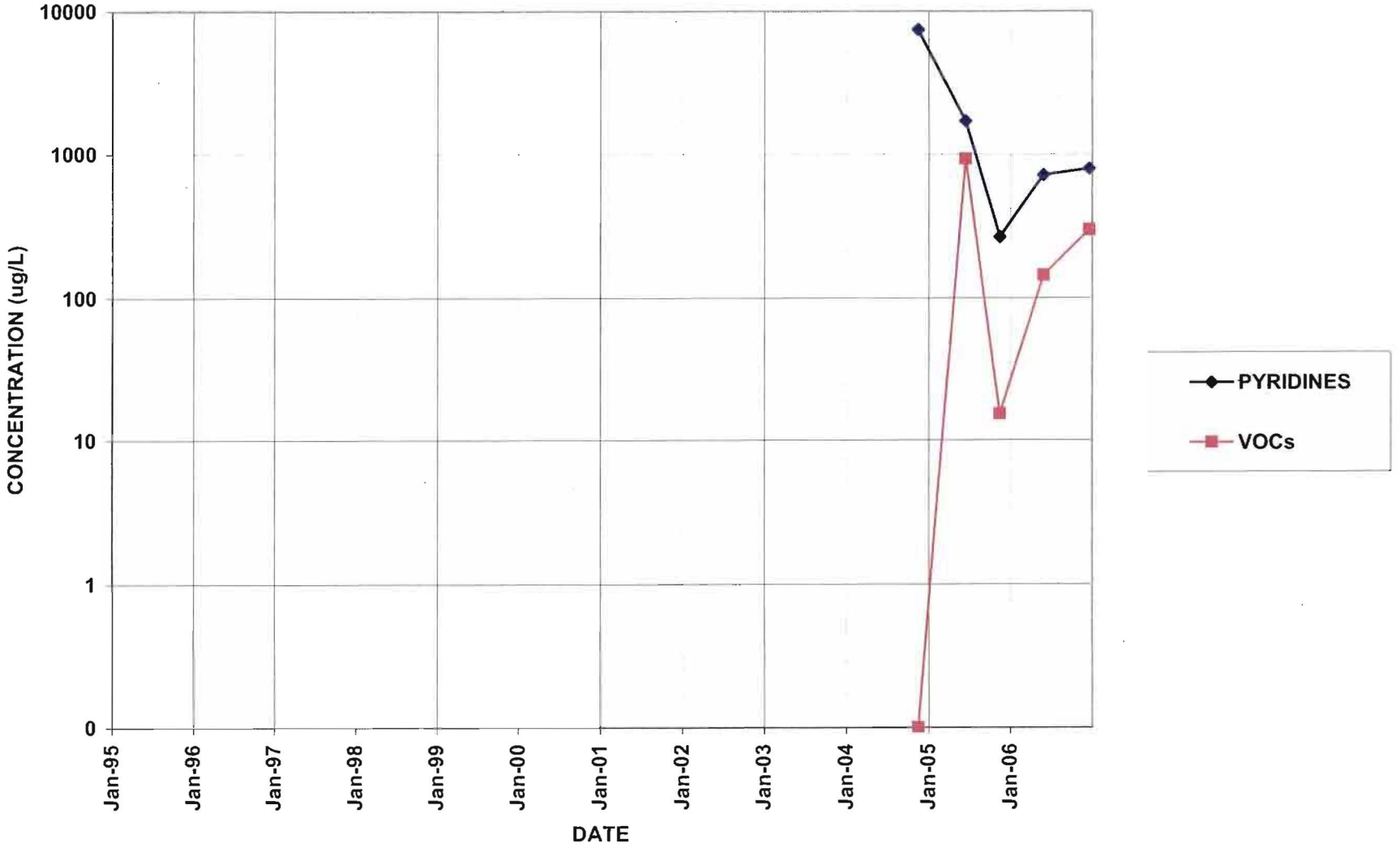
Prepared by: nmb
Reviewed by: jeb

PW12 (Formerly BR-101)



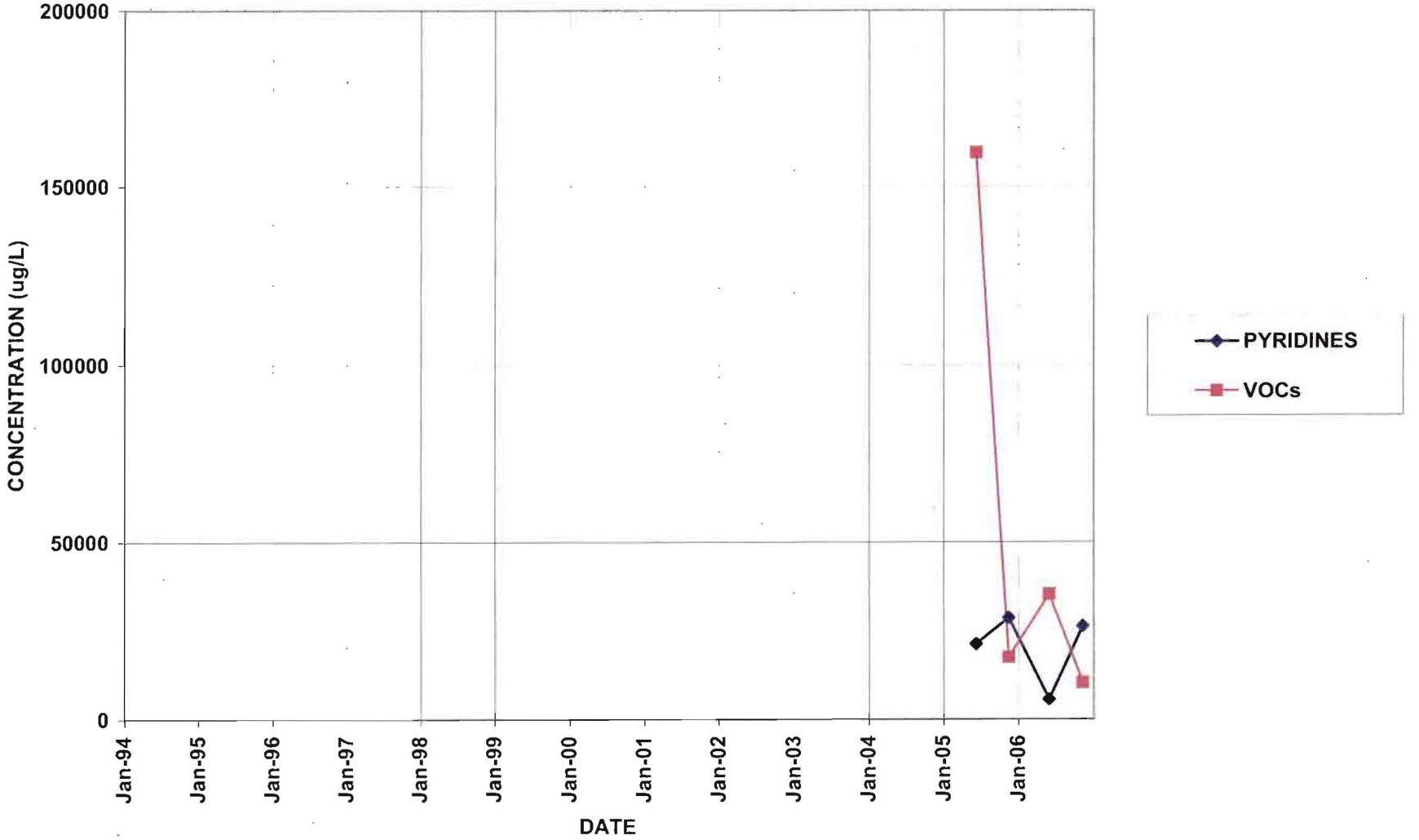
Prepared by: nmb
Reviewed by: jeb

PW13



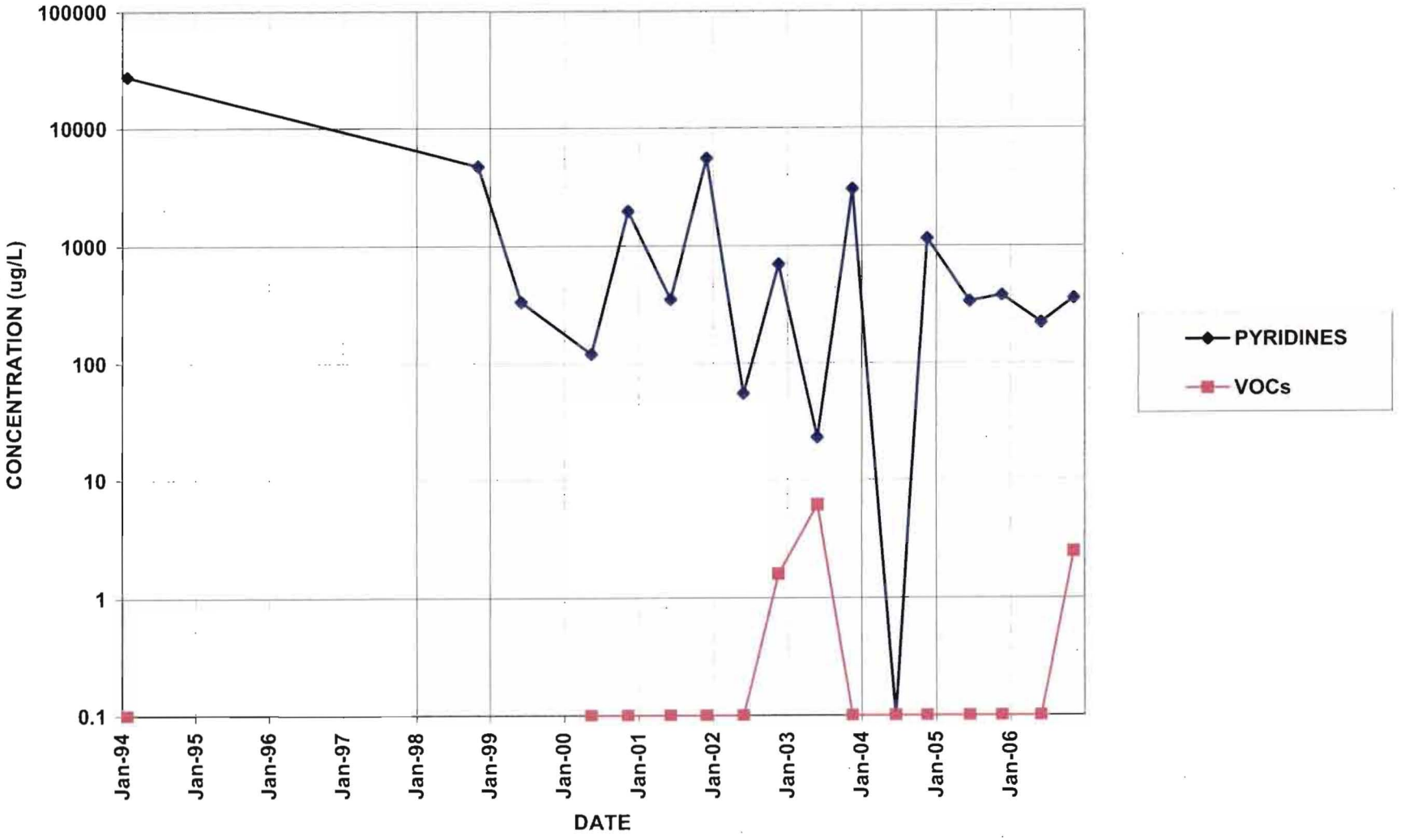
Prepared by: nmb
Reviewed by: jeb

PW14



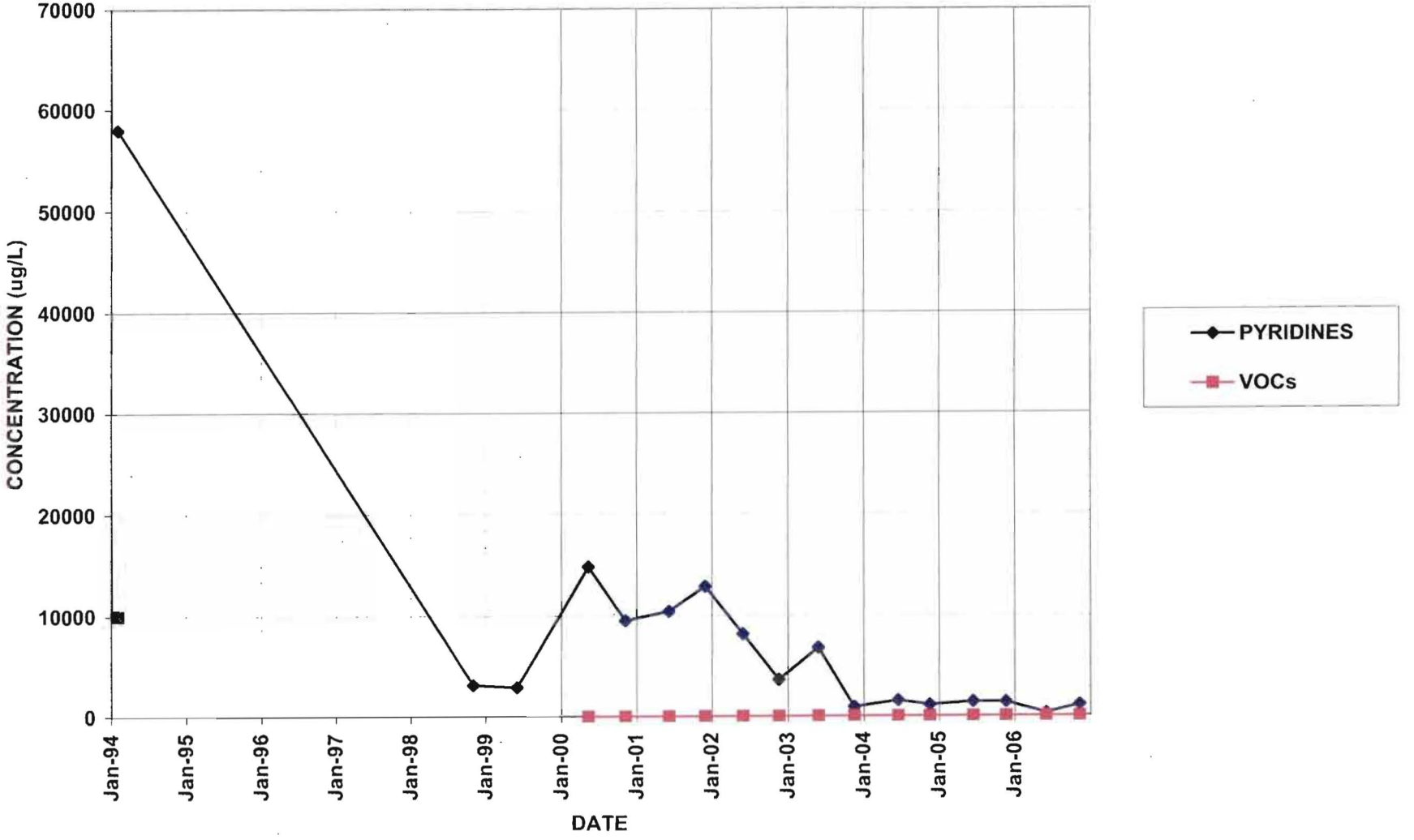
Prepared by: nmb
Reviewed by: jeb

PZ-101



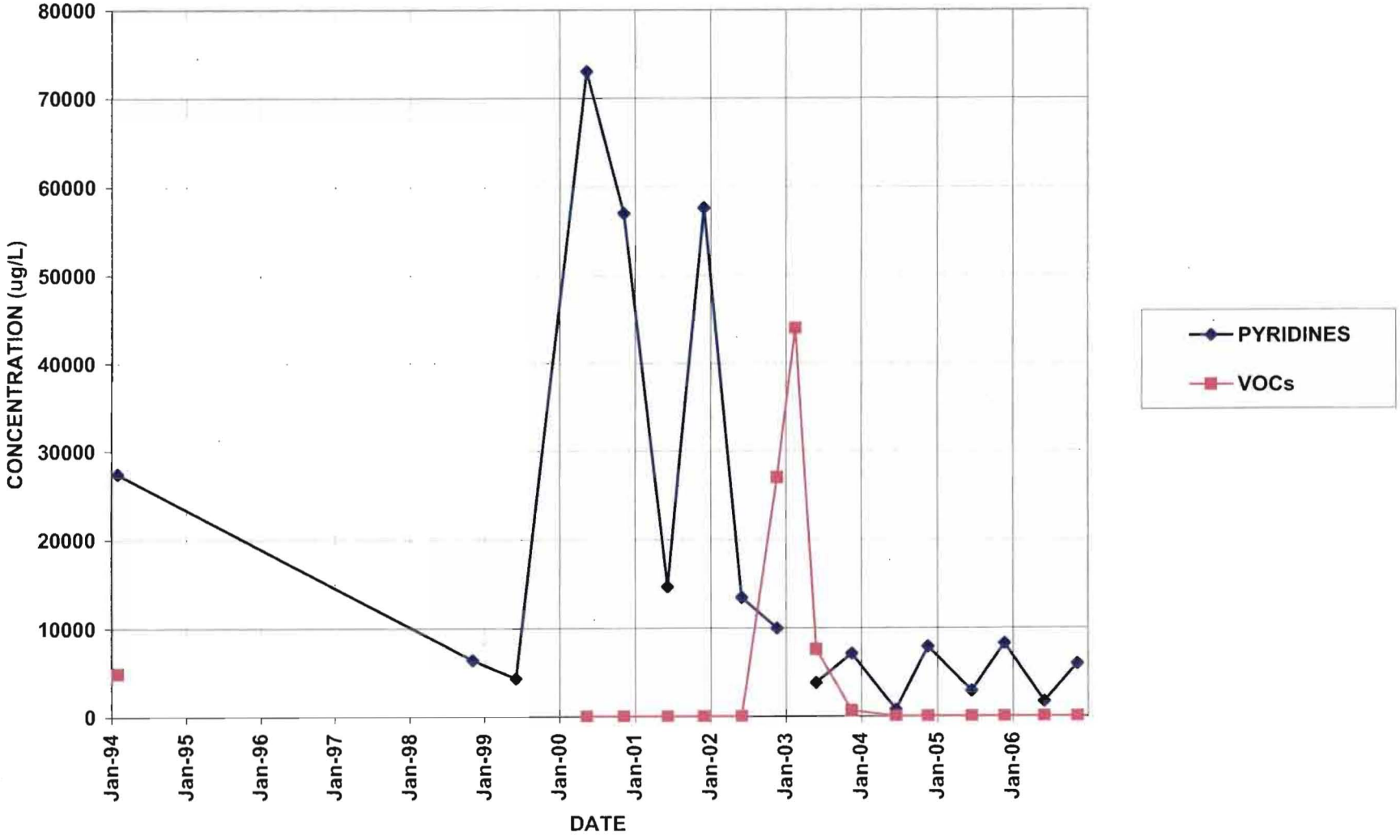
Prepared by: nmb
Reviewed by: jeb

PZ-102



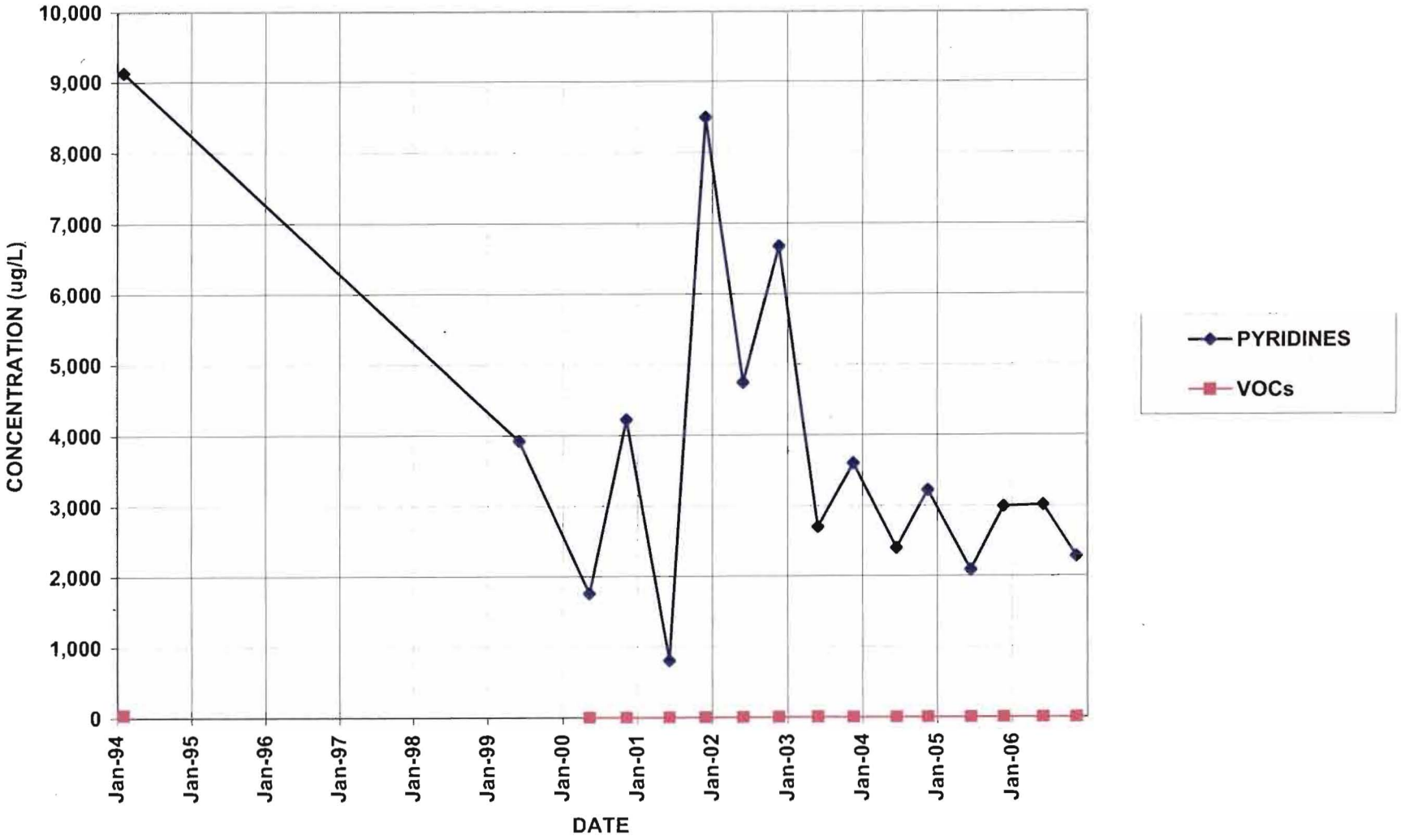
Prepared by: nmb
Reviewed by: jeb

PZ-103



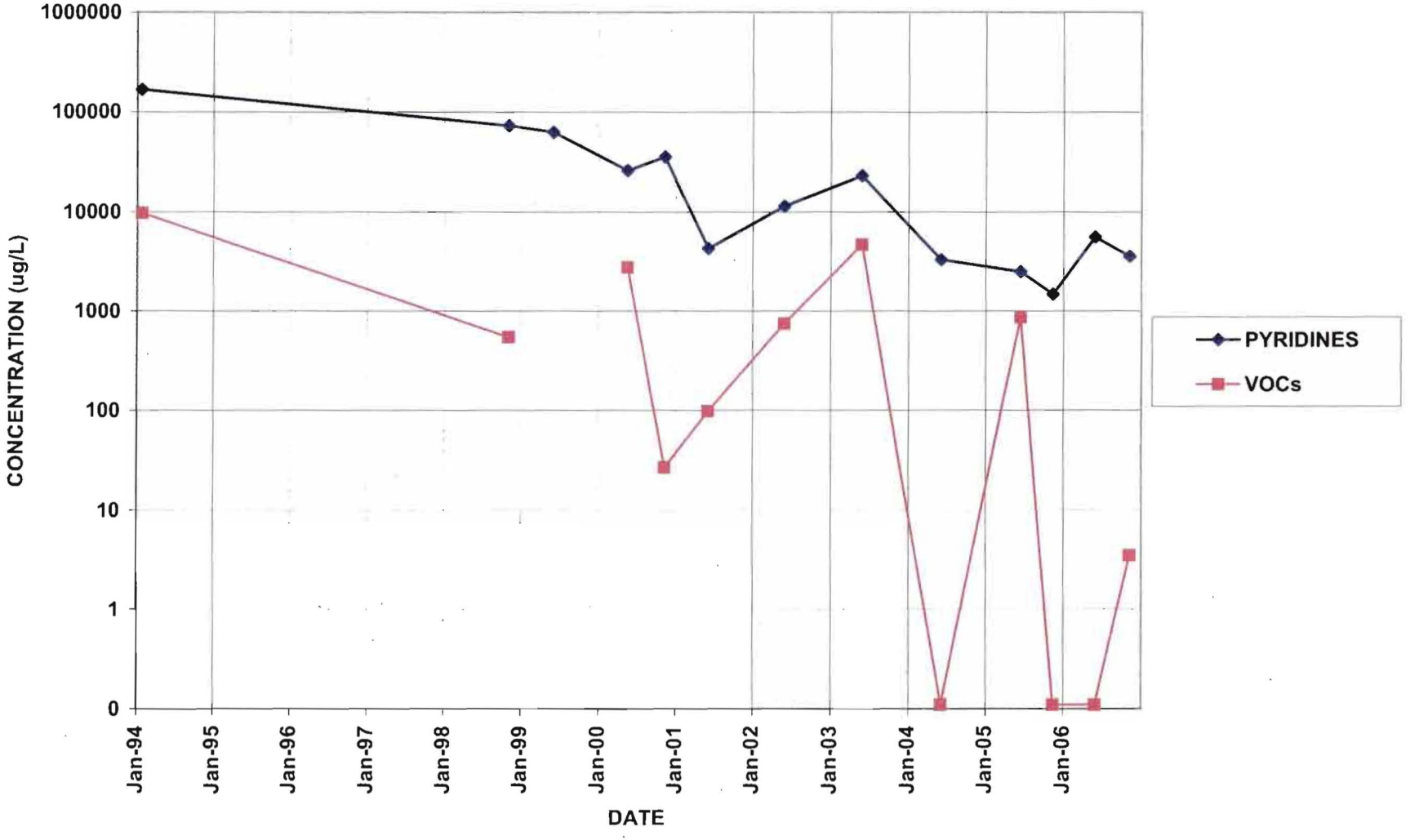
Prepared by: nmb
Reviewed by: jeb

PZ-104



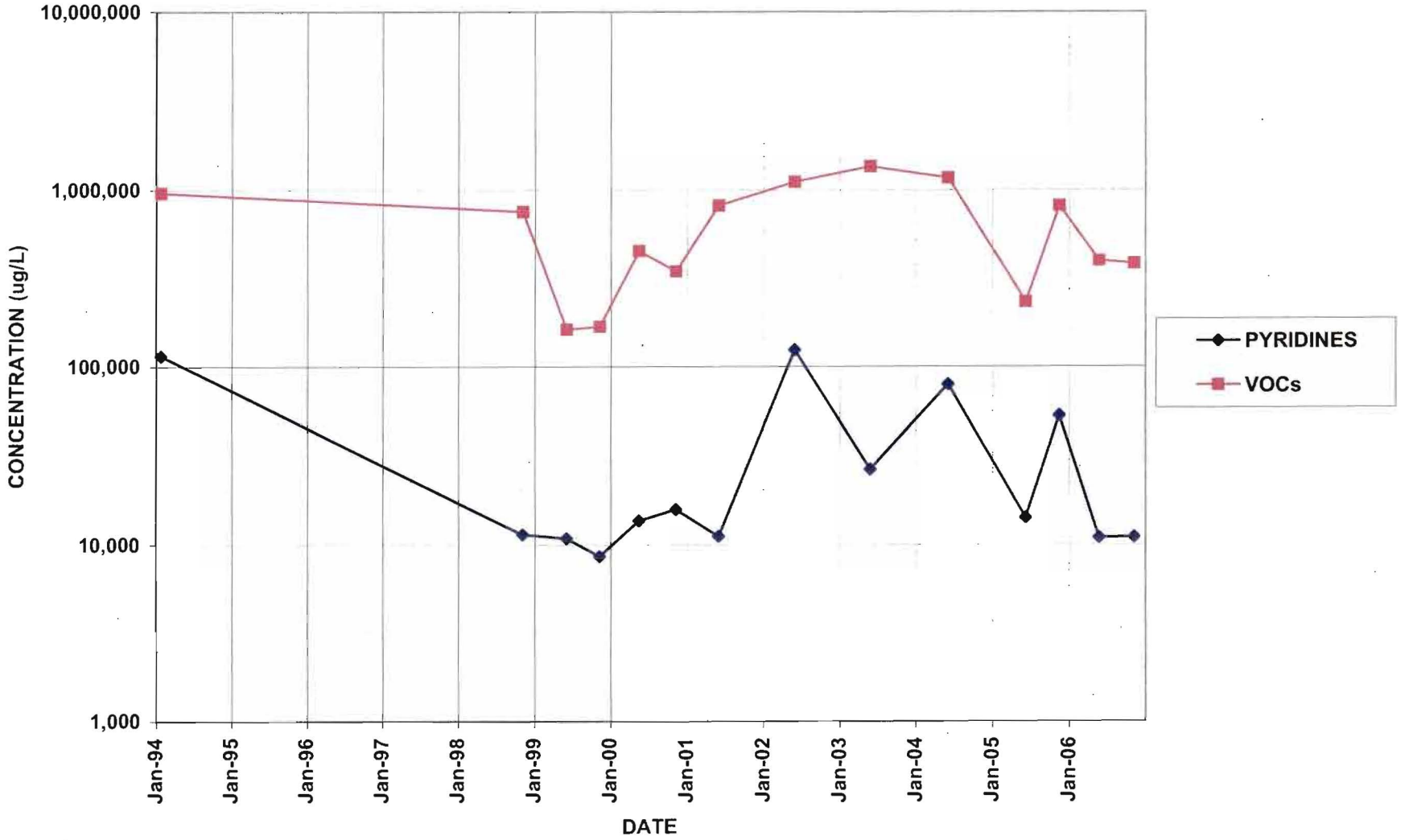
Prepared by: nmb
Reviewed by: jeb

PZ-105



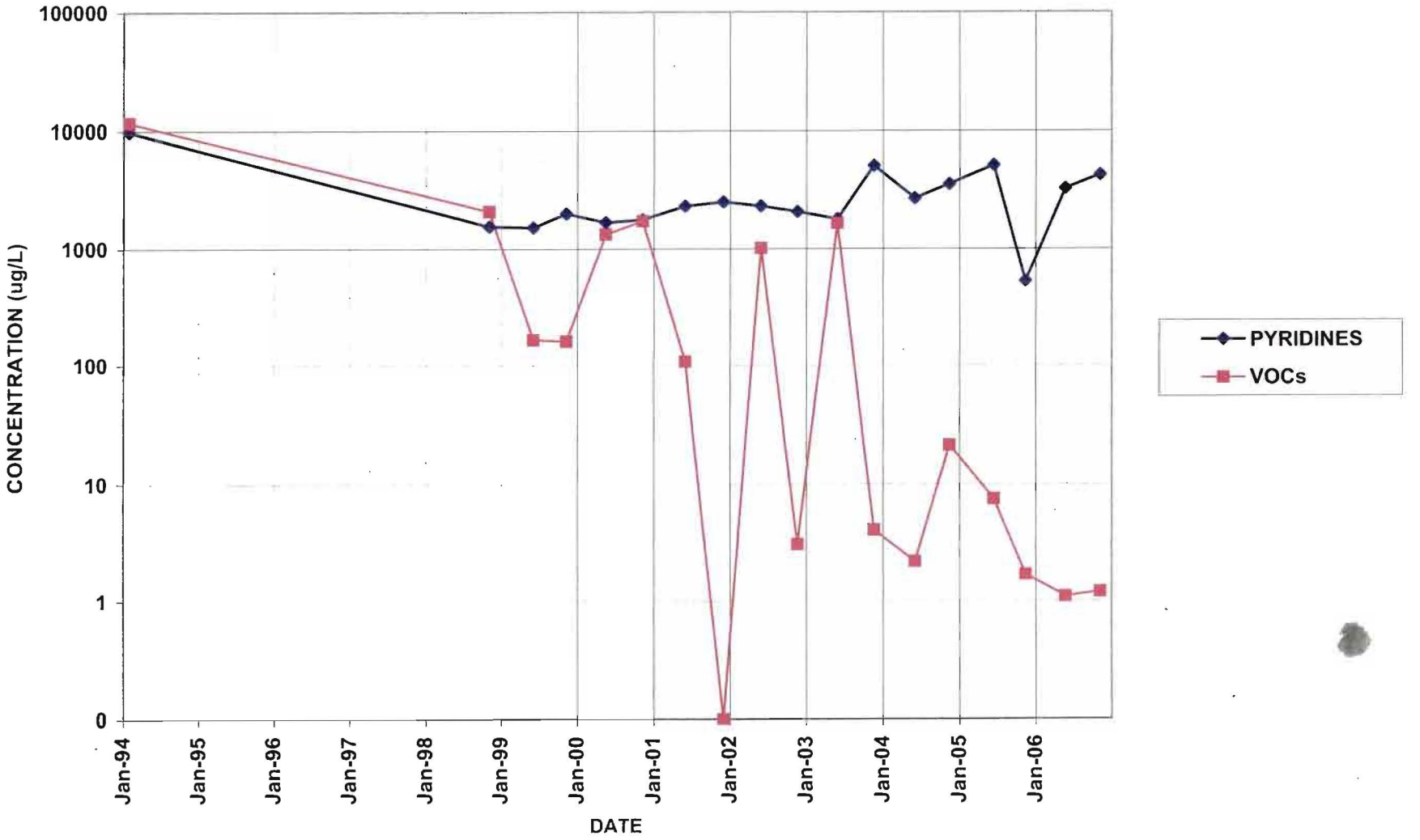
Prepared by: nmb
Reviewed by: jeb

PZ-106



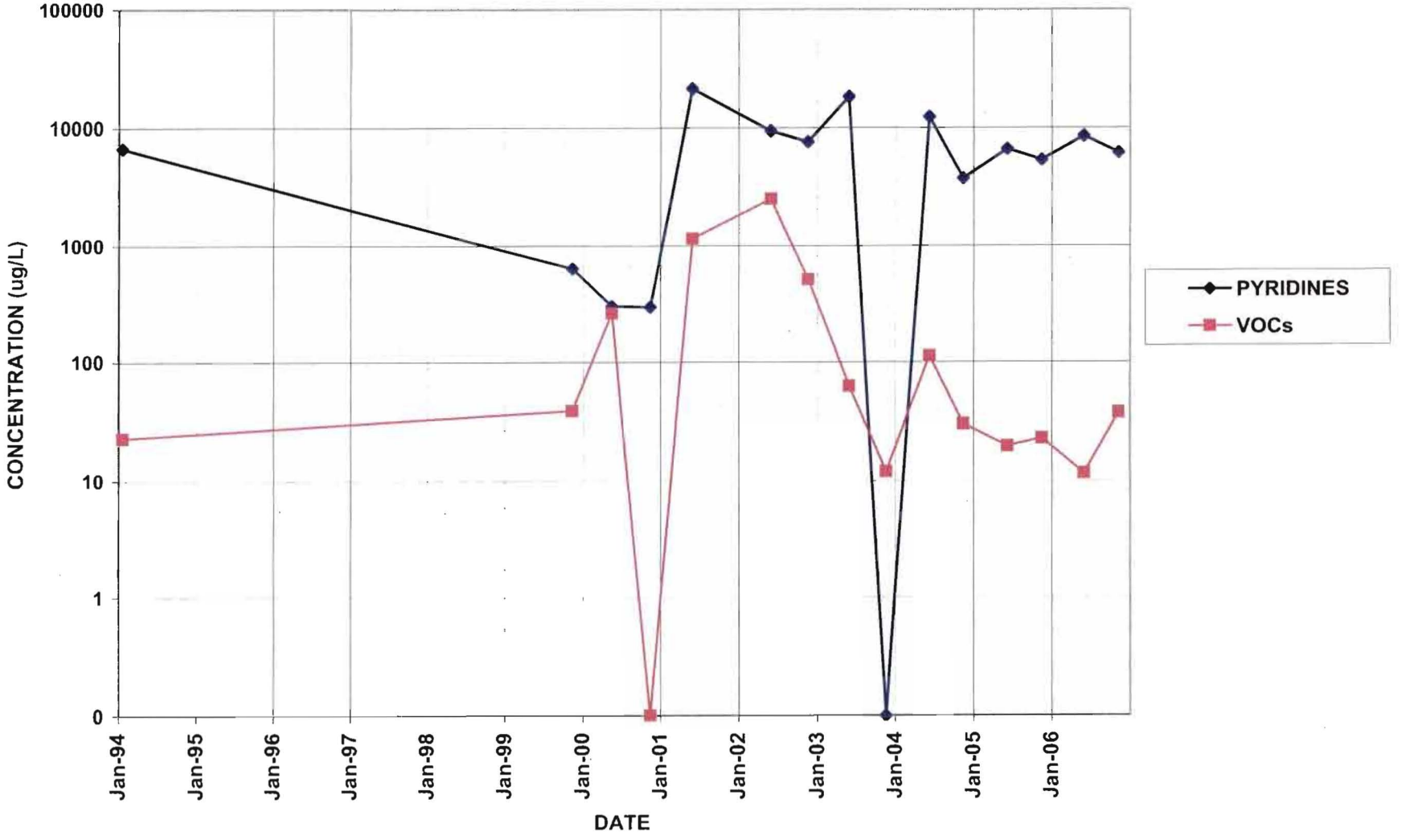
Prepared by: nmb
Reviewed by: jeb

PZ-107



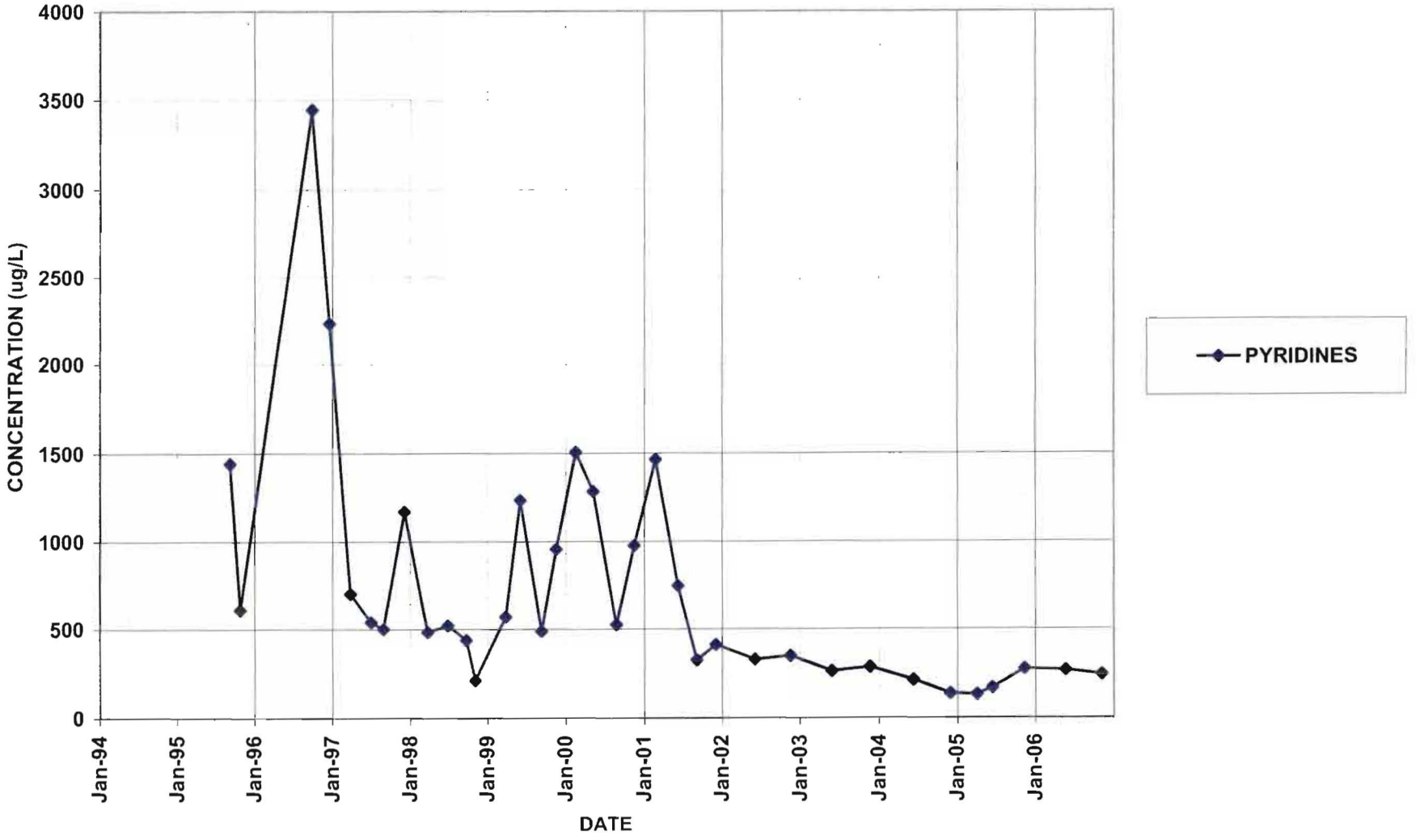
Prepared by: nmb
Reviewed by: jeb

S-3



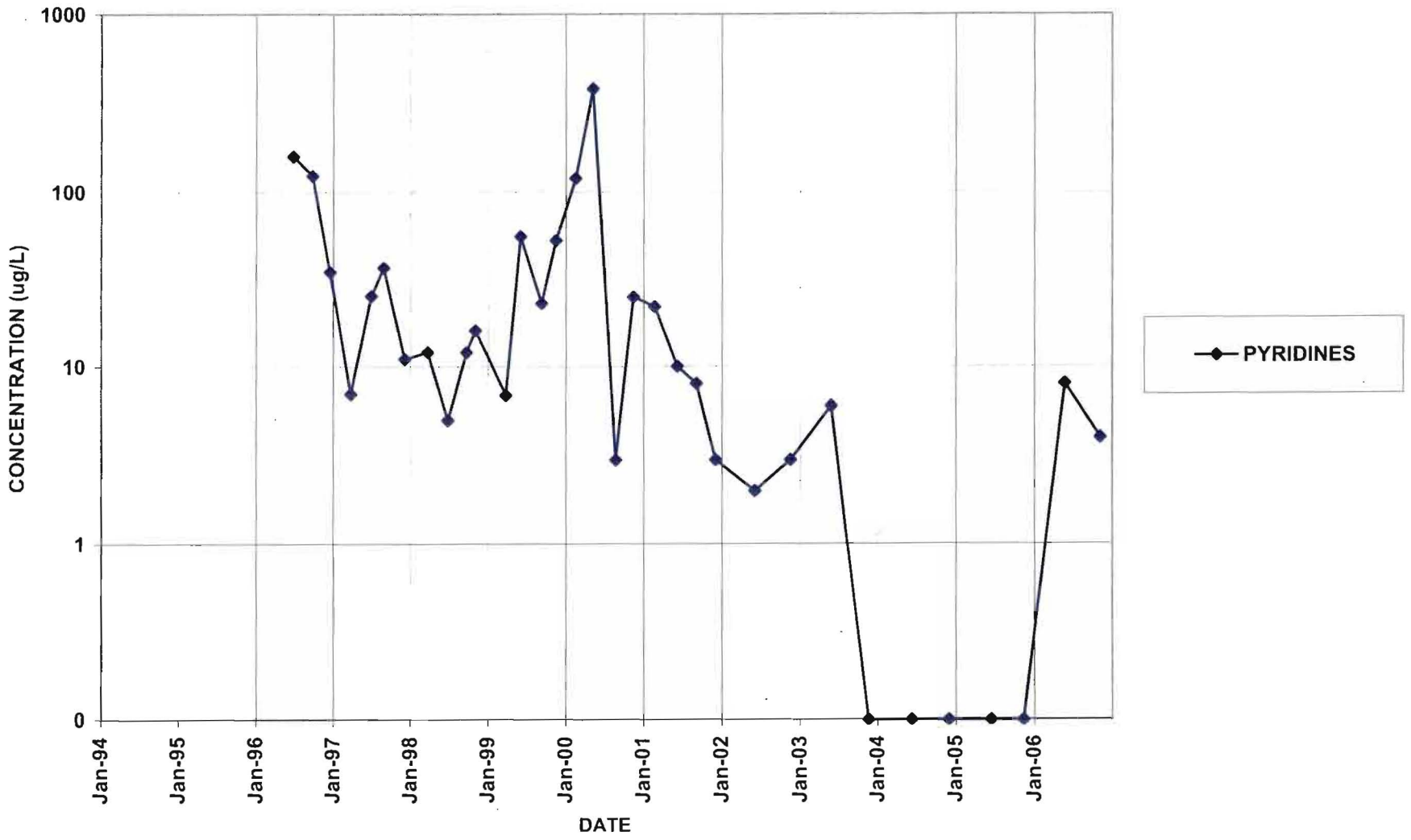
Prepared by: nmb
Reviewed by: jeb

QS-4 (QUARRY SEEP)



Prepared by: nmb
Reviewed by: jeb

QO-2 (QUARRY OUTFALL)



Prepared by: nmb
Reviewed by: jeb