OGDEN

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SUPPLEMENTAL SITE INVESTIGATION REPORT

REMEDIAL ACTION WORKPLAN

FORMER AVERY DENNISON/ MONARCH
SYSTEMS, INC. FACILITY
NEW WINDSOR, NEW YORK

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF
ENVIRONMENTAL CONSERVATION
21 SOUTH PUTT CORNERS ROAD
NEW PALTZ, NEW YORK 12561-1696

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EXECUTIVE SUMMARY

The former Avery Dennison/Monarch Systems Inc. facility is located at 15-21 Ruscitti Road (MacArthur Avenue) in the Town of New Windsor, Orange County, New York. On behalf of Avery Dennison, Ogden Environmental & Energy Services Co., Inc. (Ogden) submitted a Final Site Investigation Report to NYSDEC on April 20, 1998, documenting the results of prior subsurface investigation at the project site. Following review of this document by NYSDEC and consultation with the Department, a Final Supplemental Site Investigation Work Plan (SSIWP) was submitted by Ogden to NYSDEC on May 7, 1999. A Voluntary Cleanup Program Agreement was subsequently executed by Dennison Monarch Systems, Inc. and NYSDEC on September 23, 1999.

The primary findings resulting from SSIWP implementation are summarized below:

(1) The results of on-site and off-site sampling of ground water for volatile organic compounds (VOCs) indicate that natural attenuation processes (physical and/or biological) will progressively reduce the level of source area ground water contamination and limit the extent of the contaminant plume, as evidenced by the following:

- Time series analysis of on-site monitoring data indicate first order decay of 1,1,1-trichloroethane (TCA) and trichloroethene (TCE) in on-site ground water, with calculated degradation half-lives of approximately 575 days; and

- The contaminant plume degrades rapidly to non-detect levels within the wetland/marsh area located hydraulically down gradient of the project site to the northeast.

(2) Independent contaminant plumes from sources other than the project site appear to exist to the north and south of the project site related plume; potential sources of these plumes were identified through environmental regulatory agency database review.

(3) The results of off-site sampling of shallow ground water for inorganic constituents do not support the project site as a source of elevated concentrations of iron and manganese. Cadmium was detected sporadically, but all detected concentrations were below the groundwater quality standard.

Based on the results of the first-order decay analysis and significant off-site contaminant plume degradation, this document has been expanded to include a proposed Remedial Action Work Plan, which consists of additional off-site monitoring well installation and design of a monitored natural attenuation (MNA) program. The MNA program includes specification of an on- and off-site monitoring well network, analytical protocol, monitoring schedule, reporting schedule, and MNA program duration.

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1.0 INTRODUCTION

On behalf of Avery Dennison, Ogden Environmental & Energy Services Co. Inc. (Ogden) prepared a Draft Site Investigation Report (SIR) in May 1996 for the former Monarch Systems, Inc. site (the "project site") located at 15-21 Ruscitti Road (MacArthur Avenue) in the Town of New Windsor, Orange County, New York. This work was performed to supplement prior facility and subsurface investigations performed at the project site by Rizzo Associates, Inc. over the period 1991-1993 (Rizzo Associates, Inc., 1992, 1993).

In the fall of 1997, Avery Dennison sold the Facility to Empire Properties, LLC (currently occupied by Quality Carton, Inc.). Avery Dennison continues to maintain responsibility for management of environmental concerns related to prior operations at the project site. In support of its desire to bring to closure its environmental obligations, Avery Dennison submitted a Voluntary Cleanup Program (VCP) Application to the New York State Department of Environmental Conservation (NYSDEC), Division of Environmental Enforcement, Tarrytown, NY on June 10, 1997 (prior to the Quality Carton sale). That submission included a copy of the Ogden 1996 Draft Site Investigation Report for Department review. Following a series of negotiations between Avery Dennison and NYSDEC during 1998 and 1999, a VCP Agreement was executed by Dennison Monarch Systems, Inc. and the Commissioner of the Department on September 23, 1999.

Since completion of the Draft Site Investigation Report in May 1996, Avery Dennison has performed quarterly or biannual monitoring of wells installed by Rizzo Associates, Inc. (1992-1993) and Ogden (1995-1996). These data were compiled in an updated Site Investigation Report and submitted by Avery Dennison to NYSDEC on April 20, 1998. Following review of this report by NYSDEC and consultation with the Department, Ogden submitted a Supplemental Site Investigation Work Plan (SSIWP) on August 25, 1998, primarily addressing performance of off-site subsurface investigation and sampling activities. Review of that document by NYSDEC, and discussion of ongoing sampling activities, resulted in minor modifications to the Work Plan, and submittal of a Revised SSIWP to the Department on May 7, 1999.

This report contains the results of investigations performed in accordance with the specifications of the Revised SSIWP, as well as data analysis performed to evaluate contaminant source decay and available evidence of natural attenuation at and down gradient of the project site. Based on the results of these analysis, this report has been expanded to include a proposed Remedial Action Work Plan (RAWP). The RAWP consists of additional off-site monitoring well installation and design of a monitored natural attenuation (MNA) program, which includes specification of an on- and off-site monitoring well network, analytical protocol, monitoring schedule, reporting schedule, and MNA program duration.

2.0 SUPPLEMENTAL SITE INVESTIGATION

2.1 OFF-SITE TOWN OF NEW WINDSOR PROPERTY GROUND WATER SAMPLING

On April 7 and 8, 1999, shallow ground water sampling was performed at 20 predetermined sample locations (previously surveyed by Grevas & Hildreth Land Surveyors) on Town of New Windsor wetland property located to the northeast of the project site. The sample locations were laid out in a grid, with north-south transects spaced approximately 150 ft apart, and east-west transects spaced approximately 100 ft apart. Sample locations are indicated on Figure 2-1 (GW sample designations). Samples were collected by digging, with a steel shovel or hand auger, to a depth where ground water was encountered. Once enough ground water infiltrated the hole, samples were manually collected by immersing the sample containers directly into the ground water.

On April 7, 1999, 17 samples were collected, including a duplicate sample from location GW1-1, and matrix spike/matrix spike duplicate (MS/MSD) samples from location GW 1-2. Of the fourteen sample locations, six were moved from their surveyed location because of obstacles; a summary of field notes regarding each of the sample locations is contained in Table 2-1. Figure 2-1 accurately reflects the modification of sample locations resulting from the conditions noted in the table. It should be noted that samples GW 1-2, 1-3, 2-4, and 4-4 represent surface/standing water that was present at the surveyed locations.

On April 8, 1999, the remaining six locations were sampled. The second duplicate sample was collected from sample location GW 2-2, and a second set of MS/MSD samples were collected from sample location GW 3-3.

Immediately following collection, each sample was placed into an ice-packed cooler and preserved at 4° C. Samples were delivered for analysis to a NYSDOH - Environmental Laboratory Approval Program (ELAP) Contract Laboratory Protocol (CLP) certified laboratory, STL Envirotech, of Edison, New Jersey. Each sample was analyzed for Target Compound List (TCL) volatile organic compounds (VOCs), cadmium, iron, and manganese.

Table 2-1:Wetland Ground Water (GW) Sample Field Note Summary

Sample	Northing	Easting	Depth (ft)	Comments
1-1	966716.1	620435.1	1.0	Moved sample location 18 ft north of grid position to avoid obstructing root mass

Sample	Northing	Easting	Depth (ft)	Comments
1-2	966816.0	620439.9	<1.0	Water at surface
1-3	966915.9	620444.6	<1.0	Water at surface
1-4	967015.8	620449.4	2.0	Moved sample location 7 ft east of grid position to avoid mounded soil and root mass
1-5	967115.7	620454.1	2.0	Moved sample 60 ft east and 10 ft south of grid position to avoid concrete debris from adjacent asphalt operations; sampled edge of streambed
2-1	966709.0	620585.0	1.0	Organic soil
2-2	966808.9	620589.7	1.0	Organic soil; slow recharge
2-3	966908.8	620594.5	1.5	Organic soil; sampled 20 ft north of grid position due to dense understory
2-4	967008.7	620599.2	0.0	Sample collected from pool along bank of stream (grid position located within stream)
2-5	967108.5	620604.0	2.0	Bottom 1 ft of excavation comprised of gray silt/clay
3-1	966701.9	620734.8	2.0	Organic soil; sample collected 10 ft west and 10 ft north of grid position to avoid root mass
3-2	966801.8	620739.6	1.5	Organic soil; rapid recharge
3-3	966901.6	620744.3	1.0	Organic soil; slow recharge
3-4	967001.5	620749.0	4.0	No clay; slow recharge
3-5	967101.4	620753.8	2.0	Gray silt/clay at bottom of excavation
3-6	967201.3	620758.5	1.0	Organic soil; sample collected 5 ft east of grid position to avoid root mass
4-1	966894.5	620894.1	4.0	Top 1 ft of excavation organic soil, then gray silt/clay; bottom 3 in. very fine sand
4-2	966994.4	620898.9	1.0	Organic soil
4-3	967094.3	620903.6	1.0	Organic soil
4-4	967194.2	620908.4	<1.0	Organic soil; water at surface

Sample Number
GW = Hand auger shallow ground water samples (1-5 ft bgs)
HP = Hydropunch shallow ground water samples (~15 ft bgs)
MW/RIZ = On-site water table monitoring wells

⊙ ← Sample Location

---------- Tributary Stream

Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, March, August, 1999
Stream Location Survey: "Survey of Lands for the Town of New Windsor", Daniel J. O'Brien, Middletown, NY, January 15, 1995
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 2-1
Sample Point Locations
Supplemental Site Investigation

Avery Dennison / Former Monarch Systems, Inc.
New Windsor, New York

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2.2 OFF-SITE A&R CONCRETE/MACARTHUR AVENUE HYDROPUNCH SAMPLING

On August 3 and 4, 1999, a hydropunch was used to collect ground water samples from 15 locations (HP-1 through HP-15), along MacArthur Avenue and on the A&R Concrete property, east of the project site (Figure 2-1). Hydropunch samples were collected by pushing hollow rods into the ground in three foot increments; when the desired depth was reached, the rods were pulled back three feet exposing a length of screen in the bottom interval of the boring. Clean Teflon® tubing was then inserted into the rods down to the bottom of the boring, and a peristaltic pump was used to collect the sample. Before sample collection, several volumes of water were evacuated from the screen until the water sample appeared free of sediment. Samples were then collected in 40ml purge vials. All of the hydropunch rods were cleaned by the drilling contractor before initial use, and between each sample location using a non-phosphate, laboratory grade detergent wash and a tap water rinse. Clean sample tubing was used at each sample location, and tubing was discarded after use.

The hydropunch equipment was operated by Tracer Research Corporation (Tracer) of Monmouth Junction, New Jersey. All locations were sampled at a depth of 15 ft, with the exception of HP-11 which was sampled at a depth of 30 ft (to evaluate the vertical distribution of contamination at the project site boundary, in the vicinity of MW-2). Samples were collected at approximately 75 ft intervals along the transects. Ground water samples were analyzed for target VOCs (*i.e.*, trichloroethene (TCE); 1,1,1-trichloroethane (TCA); and associated degradation products) at every location by Tracer[1] and confirmatory samples were collect at three locations (HP-1, HP-10, and HP-13) and submitted to STL Envirotech Laboratory of Edison New Jersey. A blind duplicate was also collected from HP-10, and QA/QC samples (MS/MSD) were collected from HP-1. A trip blank also accompanied the sample bottles from the lab and was returned to the lab with the samples. A summary of field notes regarding each of the sample locations is contained in Table 2-2.

On 16 August 1999, six additional hydropunch samples were obtained adjacent to the project site, to allow for further delineation of the extent of contamination to the north and south of the areas tested previously (Figure 2-1). One sample (HP-16) was collected approximately 75 ft beyond the northern extent of the previous transect along MacArthur Avenue, one sample was collected adjacent to the location of HP-6 as a deep sample (30 ft), and four samples (HP-17 through HP-20) were collected progressively south of HP-6, adjacent to MacArthur Avenue at approximately 75 ft intervals. All samples were analyzed on-site for target VOCs by Tracer using a field gas chromatograph. The same sampling protocols were followed as in the first round of sampling.

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[1]On-site analysis of these samples with a field gas chromatograph was not performed due to equipment malfunction; samples collected on August 3 and 4, 1999 were stored in a sample cooler at a temperature of 4° C, and transported to the Tracer fixed-base laboratory for analysis on August 6, 1999.

Table 2-2: Hydropunch (HP) Sample Field Note Summary

Sample	Northing	Easting	Depth (ft)	Comments
HP-1	966674.0	620380.9	15	Initial test penetration to 30 ft; silt/clay, no yield; moved to adjacent location; sample collected at 15 ft sample interval; low yield; off-site laboratory confirmatory sample (CS-1S) obtained from this location
HP-2	966641.9	620450.7	15	Initial penetration location moved several feet due to obstructions at shallow depth; low yield
HP-3	966610.3	620518.6	15	Low yield
HP-4	966578.0	620585.3	15	Low yield
HP-5	966639.2	620365.8	15	High yield
HP-6	966557.3	620344.0	15	High yield
HP-7	966533.4	620417.9	15	Low yield
HP-8	966515.7	620487.2	15	Low yield
HP-9	966495.2	620562.3	15	Very low yield; partial clogging of sample tube with fine sand
HP-10	966630.4	620297.6	15	Shallow penetration located adjacent to MW-2. Off-site laboratory confirmatory sample (CS-2S and duplicate) obtained from this sample location
HP-11	966630.4	620297.6	36	Deep penetration located adjacent to MW-2 and HP-10; low yield
HP-12	966720.9	620347.4	15	Low yield
HP-13	966797.0	620358.3	15	Off-site laboratory confirmatory sample (CS-3S) obtained from this sample location
HP-14	966868.2	620371.0	15	Low yield
HP-15	966940.0	620381.5	15	Low yield
HP-16	967019.2	620387.9	15	Low yield
HP-17	966450.2	620306.1	15	Low yield
HP-18	966374.5	620295.7	15	Low yield

Sample	Northing	Easting	Depth (ft)	Comments
HP-19	966300.1	620285.6	15	Low yield
HP-20	966198.7	620285.3	15	Low yield
HP-21	966557.3	620344.0	30	Deep penetration located adjacent to HP-6; low yield

2.3 On-Site Monitoring Well Sampling

On September 2, 1999, 16 on-site monitoring wells were sampled as part of an ongoing semi-annual monitoring program (voluntarily initiated in 1996 as a quarterly program). Wells included in the sampling event were: RIZ-1 through RIZ-8, RIZ-16 through RIZ-19, MW-1S, MW-1D, MW-2, and MW-3. RIZ-9 and RIZ-10 (well-points located behind the western building exterior) could not be sampled due to a lack of yield. Well sampling was performed by Aquifer Systems, Inc. of Bloomfield, NJ, and laboratory analysis was performed by Quanterra of Pittsburgh, Pa., an NYSDEC ELAP-CLP certified laboratory. Both subcontractors have been providing sample collection and analysis services at the project site since 1995. Well purging and sampling field data reports are contained in Appendix A.

Ground water samples obtained from all wells were analyzed for TCL VOCs, and a series of field measured and geochemical parameters, including: pH, temperature, dissolved oxygen (DO), redox, ferrous iron (iron (II)), chloride, nitrate, sulfate, and alkalinity.

2.4 Water Supply Reconciliation

As described in the Ogden Site Characterization Report (1996, 1998), field reconnaissance and a cursory review of municipal water supply records was performed to document provision of public potable water supply to the residents of the Little Falls Park community located adjacent to the unnamed pond east of the project site. This initial analysis resulted in correlation between the majority of address noted in the field and municipal water supply billing records. Only six addresses were not reconciled through this analysis, namely: 3 Foley, 63 and 121 Myrtle, 33 and 89 Meriline, and 78 Lawrence.

Follow-up consultation with the Town of New Windsor Department of Water on August 16, 1999 resulted in confirmation that, with the exception of 89 Meriline and 121 Myrtle, all of the cited addresses are served by the municipal water utility. According to the Real Property System Cross Reference Listings (1999), 89 Meriline and 121 Myrtle are not valid address listings. Further

investigation revealed that house numbers within the Town have recently been revised due to implementation of a new "911" numbering system; however, these two addresses were not valid listings prior to the numbering system revision. Town personnel noted that gaps in the numbering system do occur in some areas.

To insure the continuity of public water supply throughout the areas represented by 89 Meriline and 121 Myrtle, a review of the Department of Water records for properties surrounding the subject addresses was performed, with confirmation of service by the water utility at the following addresses: 119, 122, and 126 (124 in prior numbering system) Myrtle; and 87, 88, 90, and 91 Meriline. It is concluded from this analysis that all residences within the defined Little Falls Park investigation area are served by the municipal water utility.

3.0 GROUND WATER QUALITY DATA

In this section, the results of on- and off-site sampling of ground water are described both spatially and temporally. The spatial data distribution (Section 3.1) describes the lateral extent of plume migration, and provides inferences regarding the sources of contamination and the natural processes acting to control the geometry of the plume. The temporal data distribution (Section 3.2) reflects the removal of vapor-phase degreasers (historically, the on-site contaminant source) and the resultant decline in down gradient ground water contaminant concentrations. As detailed below, both the spatial and temporal analyses support the conclusion that natural attenuation processes (physical and/or biological) will progressively reduce the of level source area ground water contamination and limit the extent of the contaminant plume.

3.1 CONTAMINANT CONCENTRATION DISTRIBUTION

Summary analytical results of field gas chromatograph and laboratory analysis of ground water samples obtained from off-site sampling locations (*i.e.*, GW samples obtained in the Town of New Windsor wetland area, and HP [hydropunch] samples obtained directly east of the project site and along MacArthur Avenue) are contained in Table 3-1. Summary analytical results of laboratory analysis of ground water samples obtained from on-site monitoring wells are contained in Table 3-2. Appendix B contains the investigation and laboratory report from Tracer describing the hydropunch analytical data. Appendix F contains the STL Envirotech laboratory data packages for the GW samples, as well as confirmatory samples (CS designated samples) obtained during the hydropunch investigation.

A data usability review and preparation of a Data Usability Summary Report (DUSR) was performed for the GW and CS samples, in accordance with the NYSDEC Division of Environmental Remediation Quality Assurance Group "Guidance for the Development of Data Usability Summary Reports", dated September 1997. With two minor exceptions, the results of the DUSR indicated that no data quality issues were found to impact the results reported by the analytical laboratory, and that all QC criteria were acceptable. The two exceptions were in Sample Delivery Group S1351 (CS samples), where acetone (a non-target analyte for this investigation) was detected in the method blank, and MS/MSD RPD values were slightly above established QC limits; no significant matrix interference was apparent, however. The DUSR is contained in Appendix C.

3.1.1 Volatile Organic Compound Data

Figures 3-1 through 3-7 are isoconcentration contour maps that plot the distribution of VOCs in the

Table 3-1
Summary Analytical Results of Off-Site Ground Water Sampling
Former Avery Dennison Monarch Systems, Inc. Facility, New Windsor, New York

Wetland Samples (Town of New Windsor Property)

Sample ID	Laboratory ID	Sample Date	Analysis Date	Tetrachloroethene	Trichloroethene	1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Chloroethane	Xylenes	Cadmium	Iron	Manganese
		NYSDEC WQ Standards (ug/L) [a] >>		5	5	5	5	2	5	5	5	5	5	300	300
GW-1-1	123687	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	61,400	4,650
GW-1-1 (DUP)	123700	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	37,600	3,460
GW-1-2	123688	04/07/1999	04/13/1999	0.7 J	0.7 J	0.8 J	U (10)	U (10)	1 J	U (10)	U (10)	U (10)	(U 0.5)	39,800	1,560
GW-1-3	123689	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	45,700	2,400
GW-1-4	123690	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	1.6 B	187,000	4,070
GW-1-5	123691	04/07/1999	04/13/1999	U (10)	22	2 J	3 J	U (10)	140	22	2 J	U (10)	(U 0.5)	19,800	1,160
GW-2-1	124000	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	0.80 B	19,100	1,040
GW-2-2	124001	04/08/1999	04/13/1999	U (10)	U (10)	0.6 J	2 J	U (10)	U (10)	7 J	3 J	U (10)	2.6 B	25,100	1,430
GW-2-2 (DUP)	124005	04/08/1999	04/13/1999	U (10)	U (10)	0.7 J	2 J	U (10)	U (10)	8 J	4 J	U (10)	0.89 B	26,900	822
GW-2-3	123694	04/07/1999	04/12/1999	U (10)	U (10)	4 J	U (10)	2 J	3 J	10	U (10)	U (10)	(U 0.5)	9,840	279
GW-2-4	123693	04/07/1999	04/12/1999	2 J	56	16	3 J	U (10)	58	6 J	U (10)	U (10)	(U 0.5)	804	71.4
GW-2-5	123692	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	3.7 B	90,400	1,650
GW-3-1	124004	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	10,400	112
GW-3-2	124003	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	14,800	720
GW-3-3	124002	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	27	4 J	U (10)	U (10)	2.3 B	37,500	601
GW-3-4	123699	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	74,200	523
GW-3-5	123696	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	8 J	U (10)	U (10)	2 J	(U 0.5)	49,000	755
GW-3-6	123695	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	41,300	1,400
GW-4-1	124007	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	0.52	564,000	3,970
GW-4-2	123698	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	1.3 B	43,800	1,580
GW-4-3	123700	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	(U 0.5)	5,410	253
GW-4-4	123697	04/07/1999	04/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	1.8 B	114,000	2,900
Trip Blank	123702	04/07/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	—	—	—
Trip Blank	124006	04/08/1999	04/13/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	—	—	—

Hydropunch Samples (A&R Concrete Property and MacArthur Avenue R.O.W.)

Sample ID	Laboratory ID	Sample Date	Analysis Date	Tetrachloroethene	Trichloroethene	1,2-Dichloroethene	1,1-Dichloroethene	1,1,1-Trichloroethane	1,2 - Dichloroethane	1,1-Dichloroethane	Acetone
		NYSDEC WQ Standards (ug/L) [a] >>		5	5	5	5	5	0.6	5	50
HP-1	Field GC	08/03/1999	08/06/1999	U (0.01)	0.5	U (0.7)	U (0.1)	0.3	U (2)	U (2)	—
CS-1S [b]	147932	08/03/1999	08/12/1999	U (10)	0.615 J	U (10)	U (10)	U (10)	U (10)	U (10)	10.7 B
HP-2	Field GC	08/03/1999	08/06/1999	0.09	800	U (0.7)	43	380	U (2)	U (2)	—
HP-3	Field GC	08/03/1999	08/06/1999	17	14	U (15)	12	37	U (43)	U (32)	—
HP-4	Field GC	08/03/1999	08/06/1999	U (0.2)	U (0.3)	U (15)	U (3)	22	U (43)	U (32)	—
HP-5	Field GC	08/03/1999	08/06/1999	3	2,000	22	500	250	340	180	—
HP-6	Field GC	08/03/1999	08/06/1999	3	700	U (74)	30	230	U (210)	U (160)	—
HP-7	Field GC	08/03/1999	08/06/1999	U (0.05)	0.9	U (4)	U (0.7)	0.4	U (11)	U (8)	—
HP-8	Field GC	08/03/1999	08/06/1999	0.1	0.2	U (4)	4	0.3	U (11)	U (8)	—
HP-9	Field GC	08/03/1999	08/06/1999	U (0.05)	U (0.06)	U (4)	U (0.7)	U (0.02)	U (11)	U (8)	—
HP-10	Field GC	08/04/1999	08/06/1999	43	7,700	37	840	990	5,300	29	—
CS-2S [b]	147933	08/04/1999	08/12/1999	U (500)	7,260	151 J	374 J	6,620	U (500)	U (500)	U (500)
CS-2S (DUP) [b]	147934	08/04/1999	08/12/1999	U (500)	5,960	130 J	311 J	5,610	U (500)	U (500)	444 JB
HP-11	Field GC	08/04/1999	08/06/1999	2	63	U (7)	3	3	U (22)	U (16)	—
HP-12	Field GC	08/04/1999	08/06/1999	U (0.1)	0.8	U (7)	U (1)	1	U (22)	U (16)	—
HP-13	Field GC	08/04/1999	08/06/1999	U (0.1)	3	U (7)	0.3	10	U (22)	U (16)	—
CS-3S [b]	147935	08/04/1999	08/12/1999	U (10)	3.24 J	1.84 J	2.18 J	14	U (10)	3.40 J	7.55 JB
HP-14	Field GC	08/04/1999	08/06/1999	0.3	13	U (7)	2	7	U (22)	U (16)	—
HP-15	Field GC	08/04/1999	08/06/1999	0.6	53	U (7)	21	2	U (22)	U (16)	—
HP-16	Field GC	08/16/1999	08/16/1999	U (0.004)	U (0.010)	U (0.8)	U (0.2)	U (0.003)	U (3)	U (2)	—
HP-17	Field GC	08/16/1999	08/16/1999	23	10	U (0.8)	5	8	U (3)	U (2)	—
HP-18	Field GC	08/16/1999	08/16/1999	23	7	U (6)	5	9	U (21)	U (19)	—
HP-19	Field GC	08/16/1999	08/16/1999	42	20	U (3)	43	130	U (11)	U (10)	—
HP-20	Field GC	08/16/1999	08/16/1999	4	U (0.2)	U (16)	U (3)	140	U (54)	U (48)	—
HP-21	Field GC	08/16/1999	08/16/1999	1	29	U (3)	U (0.7)	2	U (11)	U (10)	—
Trip Blank	147931	08/04/1999	08/12/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)

Organic Compound Data Qualifiers:
J = Estimated concentration below specified method quantitation limit
B = Compound also detected in laboratory method blank, inidicative of laboratory contamination
U = Compound not detected (detection limit indicated in parentheses)
— = Analysis not performed for this analyte

Inorganic Compound Data Qualifiers:
U = Compound not detected (detection limit indicated in parentheses)
B = Concentration is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit

Notes:
[a] NYDEC Ambient Water Quality Standards and Guidence Values, June 1998
[b] Off-site laboratory confirmatory samples

TABLE 3-2

Summary Analytical Results of On-Site Ground Water Sampling

Former Avery Dennison Monarch Systems, Inc. Facility, New Windsor, new York

Well ID	Laboratory ID	Sample Date	Analysis date [a]	Tetrachloroethene	Trichloroethene	1,2-Dichloroethene	1,1-Dichloroethene	Vinyl Chloride	1,1,1-Trichloroethane	1,1-Dichloroethane	Acetone	2-Butanone (MEK)	Bromomethane	Carbon Tetrachloride	Methylene Chloride
		NYSDEC WQ Standards (ug/L) [b] >>		5	5	5	5	2	5	5	50	50	5	5	5
RIZ-1	C9I040134-001	09/02/1999	09/07/1999	1.2 J	1.3 J	U (10)	U (10)	U (10)	U (10)	U (10)	1.7 J,B	U (10)	1.5 J,B	U (10)	U (10)
RIZ-2	C9I040134-002	09/02/1999	09/07/1999	U (10)	16	U (10)	U (10)	U (10)	U (10)	U (10)	2.0 J,B	1.5 J	1.5 J,B	U (10)	1.0 J
RIZ-3	C9I040134-003	09/02/1999	09/07/1999	U (10)	89	1.2 J	U (10)	U (10)	3.6 J	U (10)	2.5 J,B	U (10)	1.2 J,B	U (10)	U (10)
RIZ-4	C9I040134-004	09/02/1999	09/07/1999	6.2 J	1,300 [c]	U (10)	11	U (10)	260 [c]	5.8 J	1.6J,B	U (10)	1.0 J,B	U (10)	U (10)
RIZ-5	C9I040134-005	09/02/1999	09/07/1999	U (10)	23	U (10)	U (10)	U (10)	3.0 J	U (10)	3.4 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-6	C9I040134-006	09/02/1999	09/07/1999	1.5 J	1.0 J	U (10)	U (10)	U (10)	U (10)	U (10)	1.7 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-7	C9I040134-007	09/02/1999	09/07/1999	U (10)	5.8 J	1.9 J	U (10)	U (10)	U (10)	U (10)	1.6 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-8	C9I040134-008	09/02/1999	09/08/1999	U (10)	U (10)	U (10)	1.9 J	U (10)	12	1.5 J	5.0 J,B	1.9 J	U (10)	U (10)	U (10)
RIZ-16	C9I040134-013	09/02/1999	09/08/1999	1.7 J	150	U (10)	U (10)	U (10)	34	U (10)	3.1 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-17	C9I040134-014	09/02/1999	09/08/1999	U (10)	22	U (10)	U (10)	U (10)	2.4 J	U (10)	2.5 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-18	C9I040134-015	09/02/1999	09/08/1999	U (10)	14	U (10)	U (10)	U (10)	3.9 J	U (10)	3.9 J,B	U (10)	U (10)	U (10)	U (10)
RIZ-19	C9I040134-016	09/02/1999	09/08/1999	U (10)	2.3 J	U (10)	U (10)	U (10)	U (10)	U (10)	3.8 J,B	U (10)	U (10)	U (10)	U (10)
MW-1S	C9I040134-009	09/02/1999	09/08/1999	U (20)	280	15 J	110	6.5 J	280	11 J	3.0 J,B	U (20)	U (20)	43	U (20)
MW-1D	C9I040134-010	09/02/1999	09/08/1999	U (10)	30	U (10)	6.1 J	U (10)	140	26	1.6 J,B	U (10)	U (10)	U (10)	1.9 J
MW-2	C9I040134-011	09/02/1999	09/08/1999	U (200)	2,900	340	93 J	U (200)	2,700	24 J	41 J,B	U (200)	U (200)	U (200)	U (200)
MW-3	C9I040134-012	09/02/1999	09/08/1999	U (10)	3.9 J	U (10)	U (10)	U (10)	U (10)	U (10)	3.4 J,B	U (10)	U (10)	U (10)	U (10)
Field Blank	C9I040134-017	09/02/1999	09/08/1999	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	U (10)	8.9 J,B	3.2 J	U (10)	U (10)	U (10)
Trip Blank	C9I040134-018	09/02/1999	09/07/1999	U (10)	4.4 J	U (10)		U (10)	U (10)	U (10)	2.7 J,B	1.6 J	U (10)	U (10)	U (10)

				Field Measured Parameters								
Well ID	Laboratory ID [d]	Sample Date	Analysis date [d]	pH	Temperature	Dissolved Oxygen	Redox	Ferrous Iron	Chloride	Nitrate	Sulfate	Alkalinity
			Units >>	(units)	(°C)	(mg/L)	(Eh mv)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
RIZ-1	C9I040134-001	09/02/1999	09/09 - 09/17/99	6.52	16.8	3.0	-123.3	0.0	73.5	U (0.10)	30.6	261
RIZ-2	C9I040134-002	09/02/1999	09/09 - 09/17/99	6.46	17.8	2.0	-135.5	0.0	68.1	0.10	39.9	210
RIZ-3	C9I040134-003	09/02/1999	09/09 - 09/17/99	6.28	19.4	2.5	-111.1	0.0	38.8	2.8	144	356
RIZ-4	C9I040134-004	09/02/1999	09/09 - 09/18/99	6.56	19.2	5.4	-93.0	0.0	66.0	0.36	42.2	202
RIZ-5	C9I040134-005	09/02/1999	09/09 - 09/18/99	6.31	18.5	5.3	19.5	0.0	80.3	0.67	42.8	160
RIZ-6	C9I040134-006	09/02/1999	09/09 - 09/18/99	5.99	17.9	1.6	-142.5	1.0	98.3	U (0.10)	33.9	237
RIZ-7	C9I040134-007	09/02/1999	09/09 - 09/18/99	6.21	18.3	1.7	-127.1	0.0	50.0	U (0.10)	31.3	144
RIZ-8	C9I040134-008	09/02/1999	09/09 - 09/18/99	6.41	17.0	3.7	-117.0	0.0	57.8	U (0.10)	75.9	239
RIZ-16	C9I040134-013	09/02/1999	09/09 - 09/18/99	6.13	15.6	5.2	-44.7	0.0	71.0	U (0.10)	48.2	158
RIZ-17	C9I040134-014	09/02/1999	09/09 - 09/18/99	6.08	14.9	2.6	-185.5	0.0	64.8	U (0.10)	46.6	140
RIZ-18	C9I040134-015	09/02/1999	09/09 - 09/18/99	6.12	15.4	4.7	-75.5	0.0	83.8	U (0.10)	33.7	192
RIZ-19	C9I040134-016	09/02/1999	09/09 - 09/18/99	6.01	14.2	4.9	-65.7	0.0	60.4	U (0.10)	41.6	132
MW-1S	C9I040134-009	09/02/1999	09/09 - 09/18/99	6.74	20.4	3.0	-120.0	0.0	17.6	U (0.10)	16.6	178
MW-1D	C9I040134-010	09/02/1999	09/09 - 09/18/99	6.84	21.5	1.0	-139.8	0.0	78.2	U (0.10)	75.5	243
MW-2	C9I040134-011	09/02/1999	09/09 - 09/18/99	6.38	20.4	1.8	-141.0	0.0	75.8	0.85	68.6	204
MW-3	C9I040134-012	09/02/1999	09/09 - 09/18/99	6.35	19.4	1.6	-170.1	1.0	48.5	0.48	38.4	154
Field Blank	C9I040134-017	09/02/1999	09/09 - 09/18/99	—	—	—	—	—	U (1.0)	U (0.10)	4.2 B	U (5.0)

Organic Compound Data Qualifiers:

J = Estimated concentration below specified method quantitation limit

B = Compound also detected in laboratory method blank, inidicative of laboratory contamination

U = Compound not detected (detection limit indicated in parentheses)

Inorganic Compound Data Qualifiers:

U = Compound not detected (detection limit indicated in parentheses)

B = Concentration is less than the Method Detection Limit but greater than or equal to the Instrument Detection Limit

Notes:

[a] Volatile organic compound analysis

[b] NYDEC Ambient Water Quality Standards and Guidence Values, June 1998 [NS = No standard]

[c] Dilution factor = 10

[d] Off-site inorganic laboratory analysis

shallow ground water at and downgradient of the project site. These figures compile all data derived from the April and August 1999 off-site sampling programs as well as the September 1999 on-site monitoring well sampling program[2]. Figure 3-1 depicts the total VOC concentration distribution; Figures 3-2 through 3-5 depict the concentration distribution of the chlorinated ethenes; *i.e.*, tetrachloroethene (PCE), trichloroethene (TCE), 1,2-dichloroethene (1,2-DCE), and 1,1-dichloroethene (1-1-DCE), respectively; and Figures 3-6 and 3-7 depict the concentration distribution of the chlorinated ethanes; *i.e.*, 1,1,1-trichloroethane (TCA), and 1,1-dichloroethane (1,1-DCA). Isoconcentration contour plots were not prepared for several dechlorination products (*i.e.*, vinyl chloride, 1,1-dichloroethane, chloroethane), due to the limited detection of these constituents.

Figure 3-1 provides a concise overview of the contaminant distribution, and highlights two important findings: (1) the concentration distribution of the project site related plume decreases rapidly (to non-detect levels) in the wetland/swamp area to the northeast of the project site, and (2) there is evidence of two independent contaminant plumes from other off-site sources, located to the north and south of the project site.

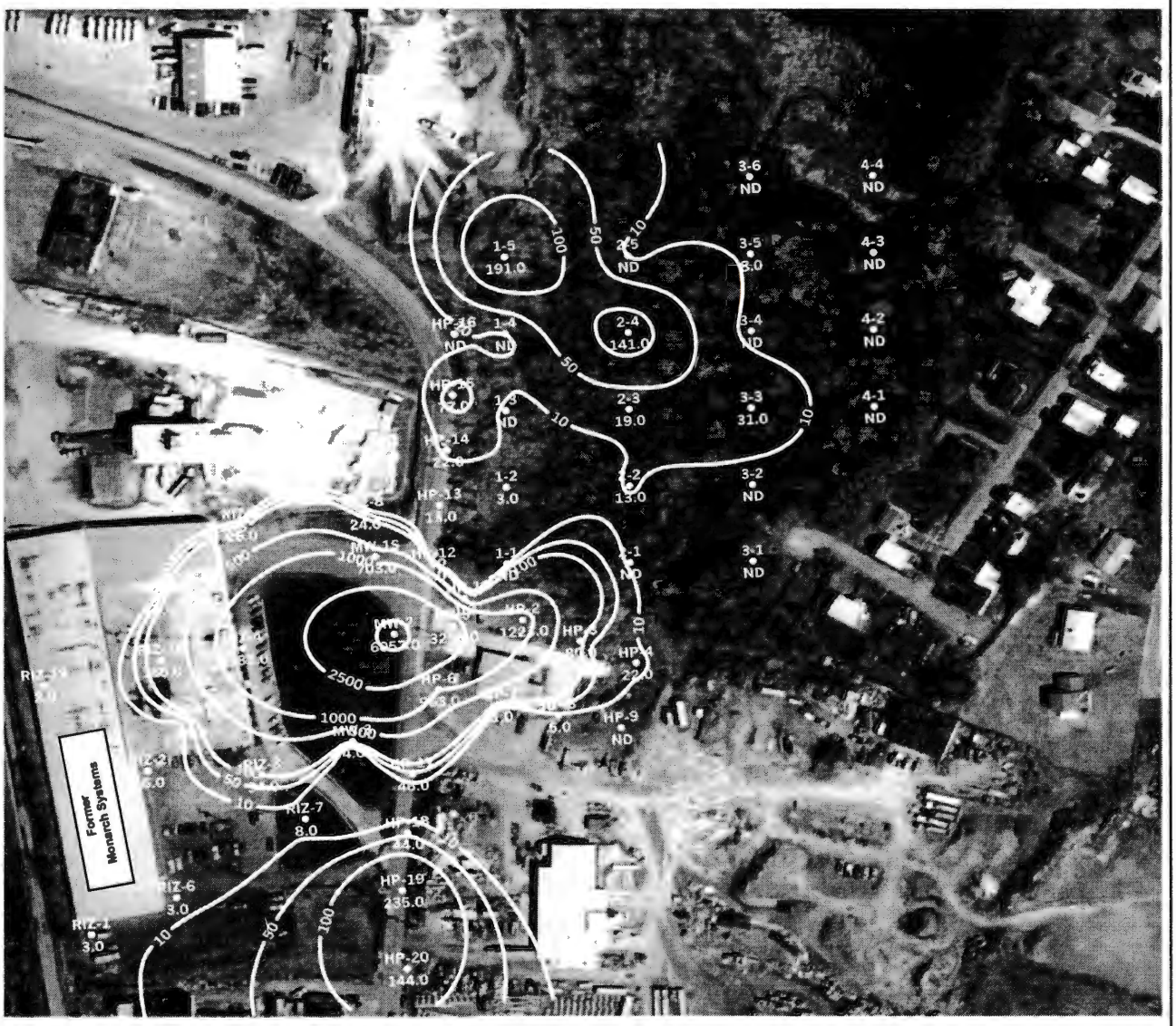
- ***Off-Site Plume Geometry***

In terms of total VOCs (Figure 3-1), the center of mass of project site related plume decreases in concentration from 6,000 ug/L at the property boundary (MW-2) to 1,200 ug/L at HP-2, located approximately 175 ft to the east-northeast on the adjacent A&R Concrete property. Over an equivalent further distance to the northeast, the concentration is then reduced to non-detect levels within the wetland/swamp area (GW1-1, GW2-1, GW3-1). The significant degradation noted at the leading edge of the project site derived plume is believed to be the result of: (1) enhanced biodegradation of the chlorinated solvents afforded by the organic rich and anaerobic sediments associated with the wetland/swamp ground water discharge area, and (2) dilution of shallow ground water afforded by the upward discharge of deeper flow paths into the regional ground water sink represented by the wetland/swamp area.

The presumption of enhanced biodegradation of chlorinated solvents within the wetland/swamp area is based on the following rationale:

Aerobic microorganisms obtain energy for respiration by transferring electrons from electron donors (*e.g.*, native organic carbon) to electron acceptors. Dissolved oxygen is used first as the prime electron acceptor in such oxidation-reduction reactions. Given the abundance of organic carbon- rich

[2] The contaminant distribution observed for the September 1999 sampling event is consistent with the historical record (*i.e.*, ten prior monitoring events over the period June 1996 - December 1998; Appendix E).

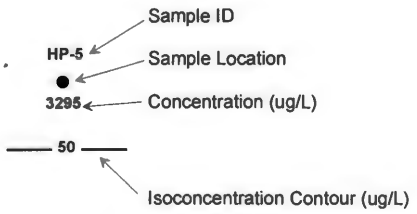


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



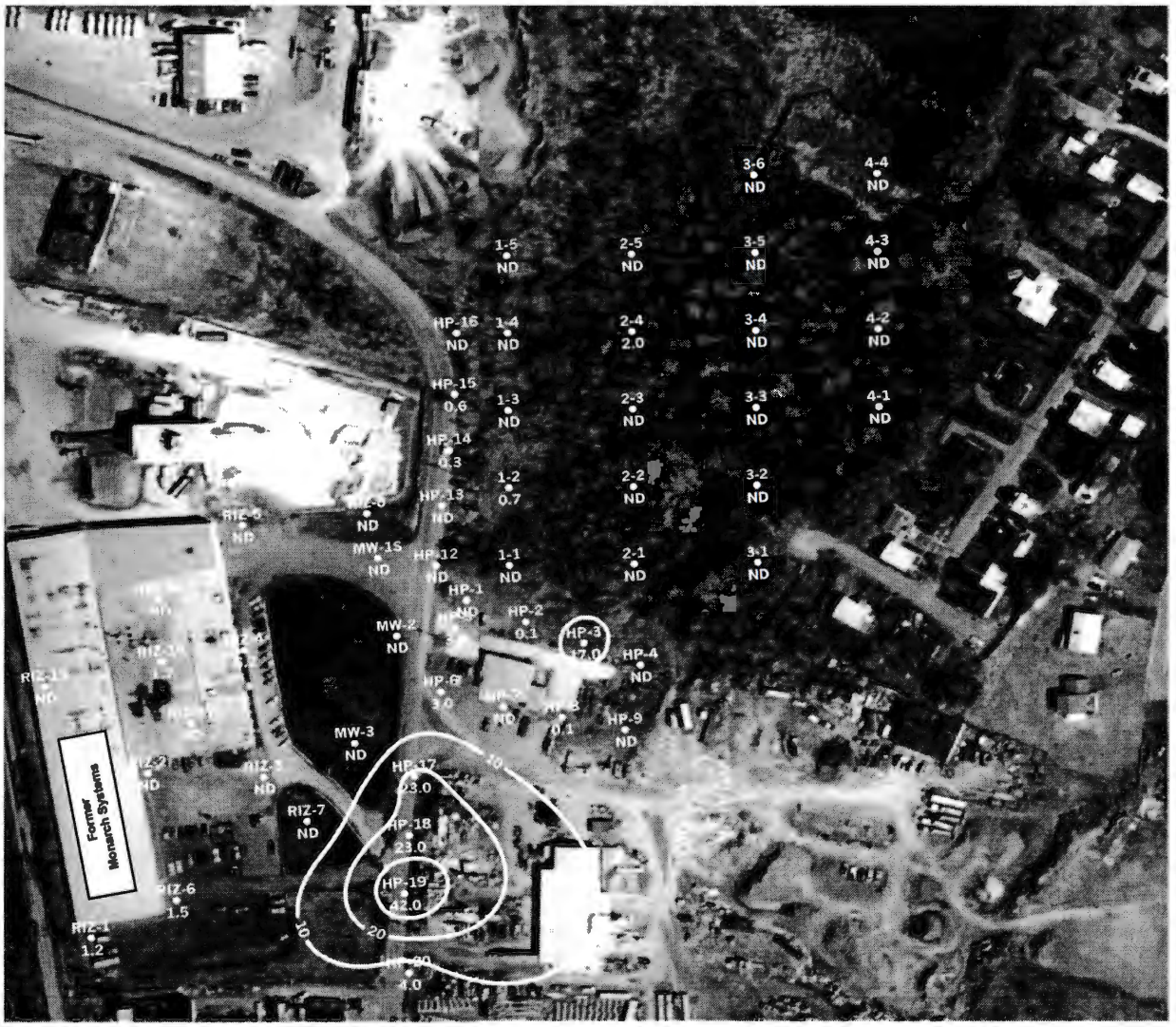
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-1

Total Volatile Organic Compounds (VOCs)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

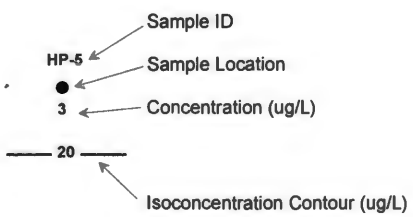


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



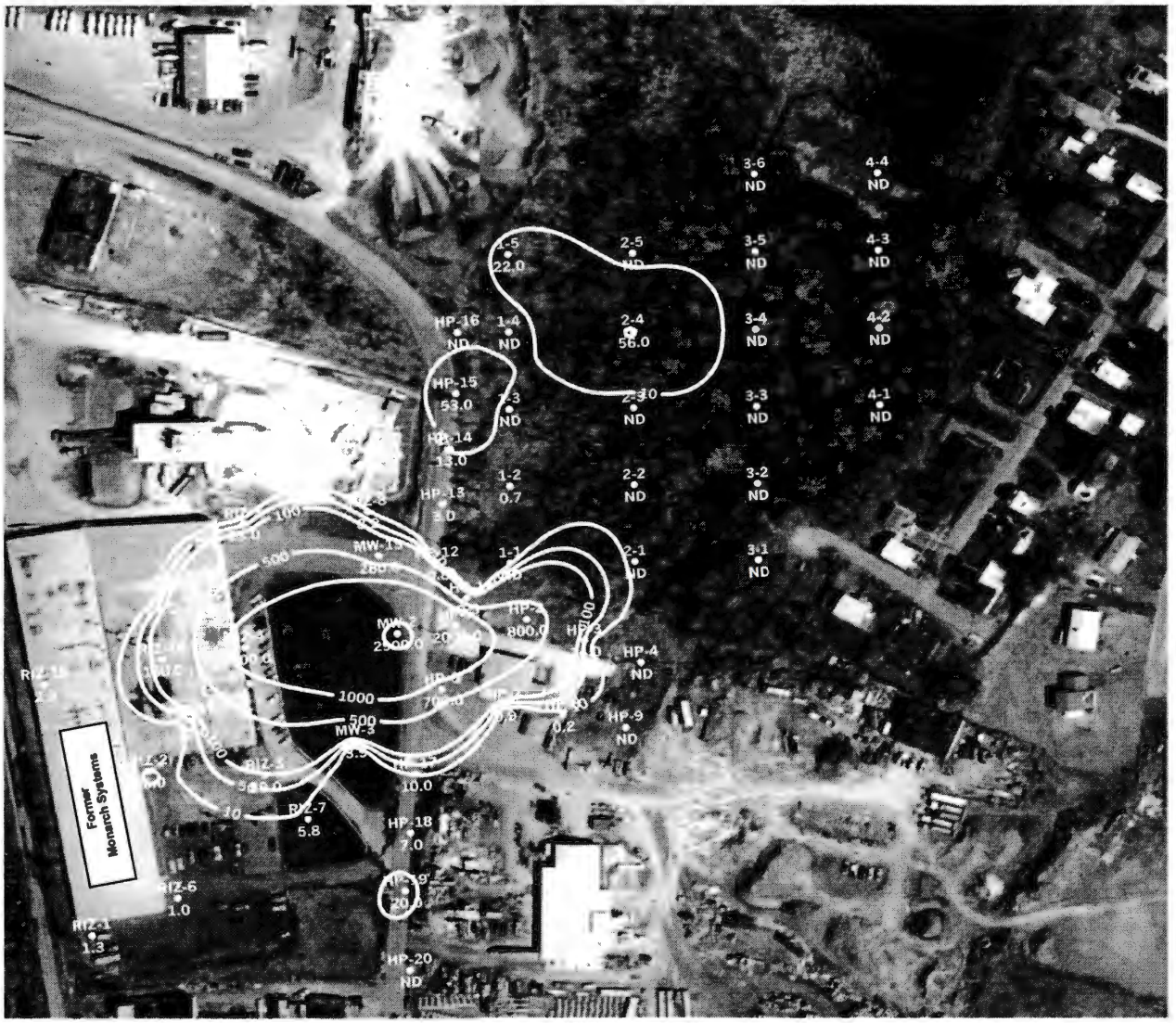
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-2

Tetrachloroethene (PCE)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

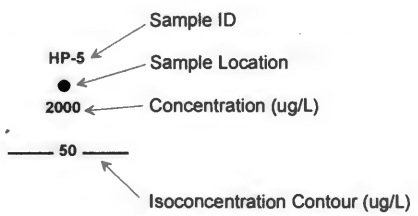


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



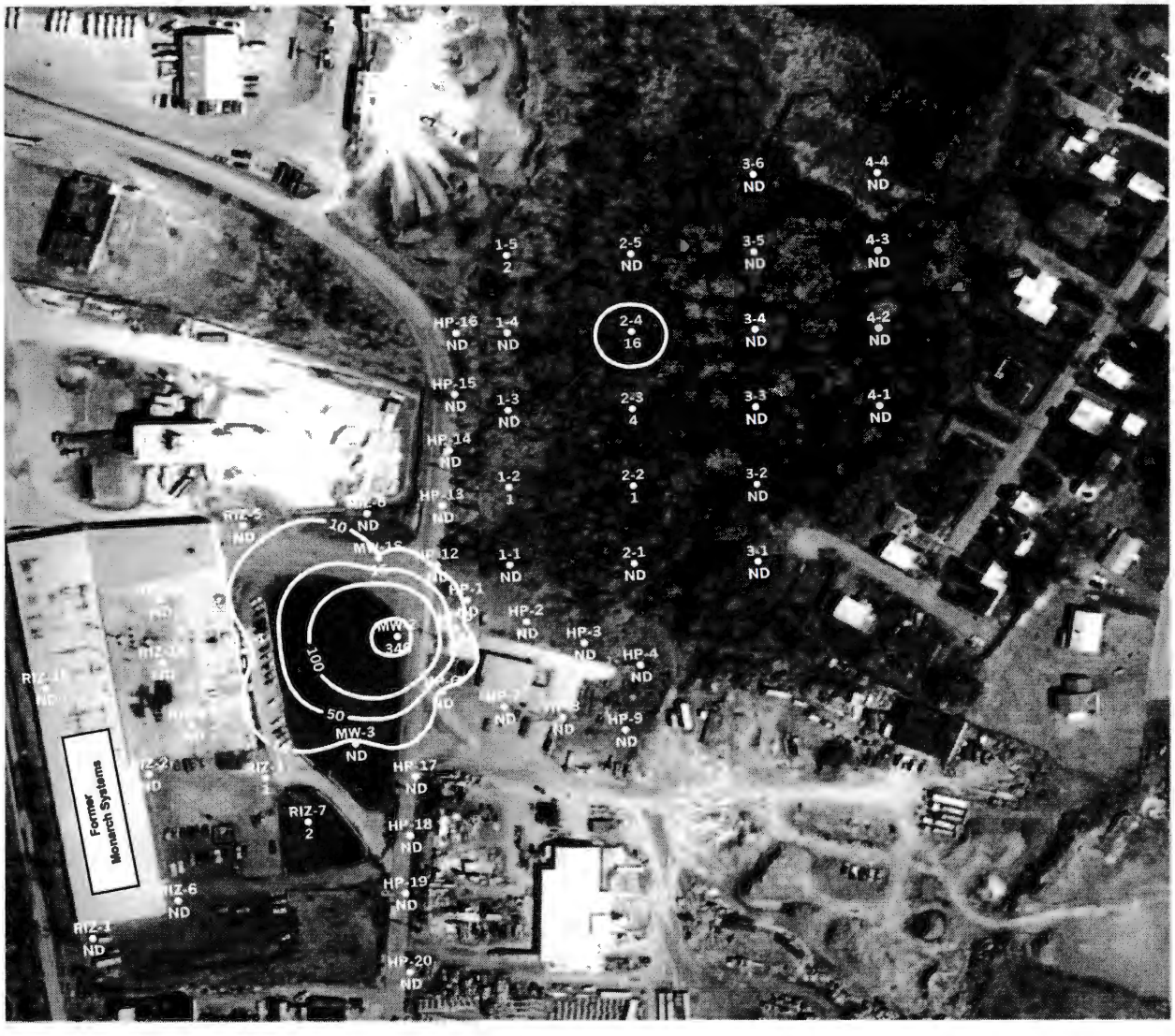
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-3

Trichloroethene (TCE)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873



Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N

Sample ID
HP-5
Sample Location
22
Concentration (ug/L)
50
Isoconcentration Contour (ug/L)

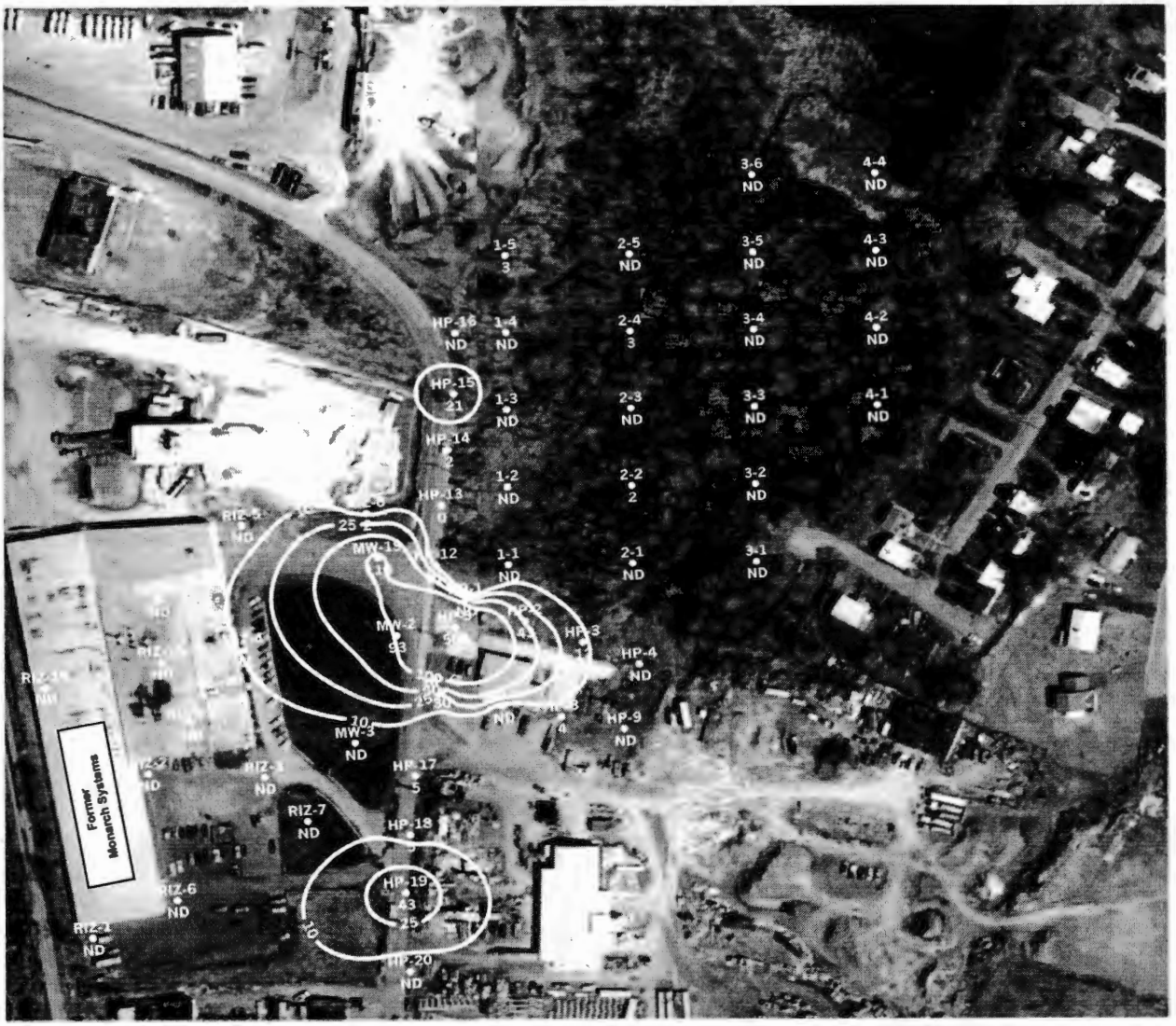
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-4

1,2-Dichloroethene (1,2-DCE)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

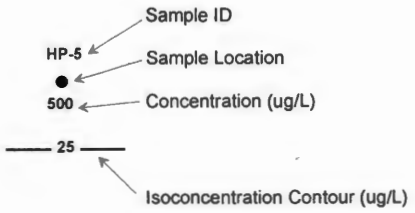


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



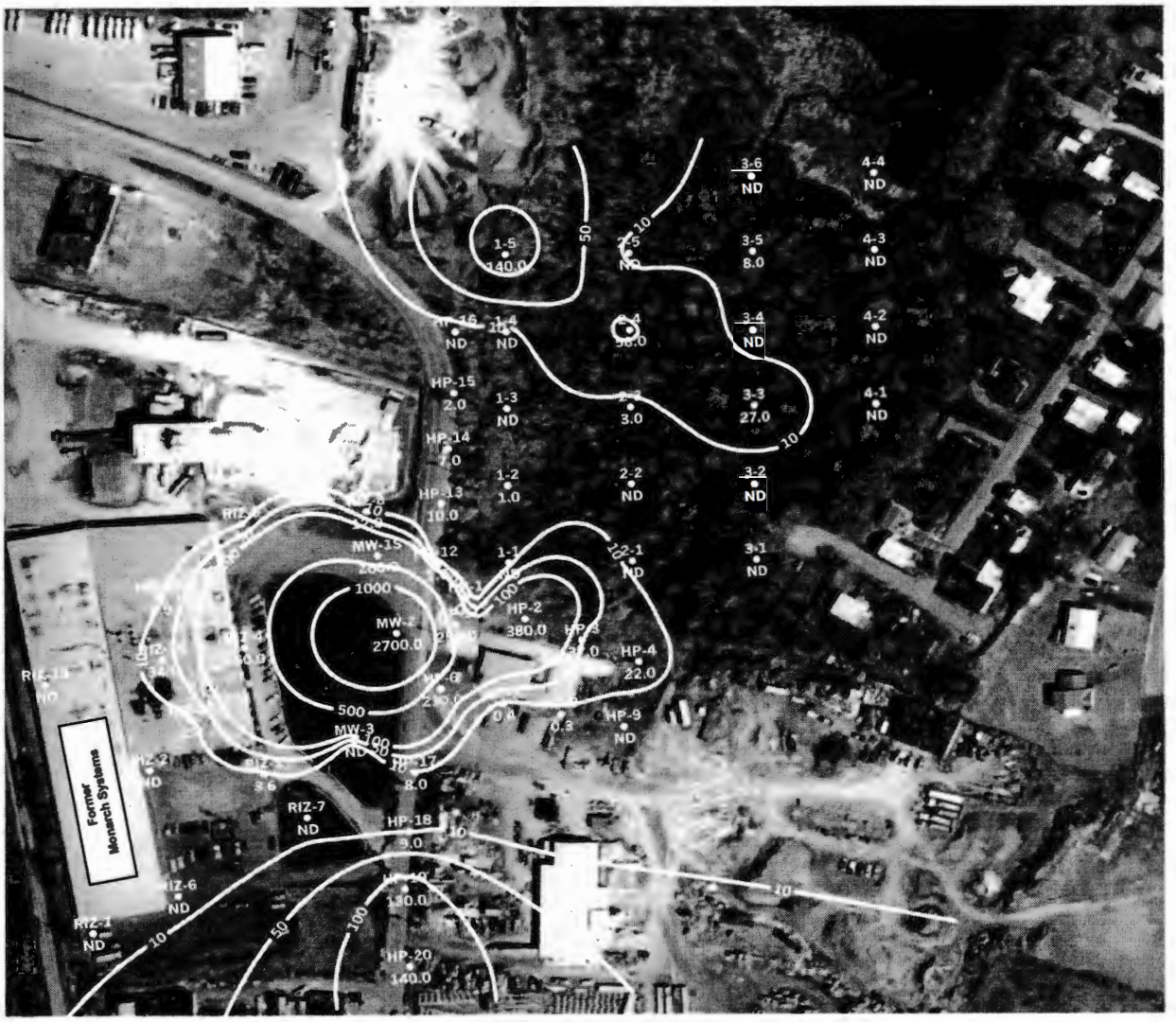
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-5

1,1-Dichloroethene (1,1-DCE)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

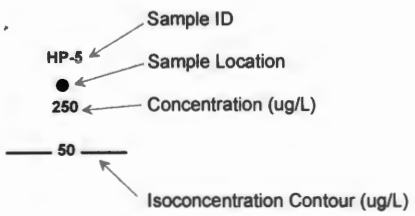


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



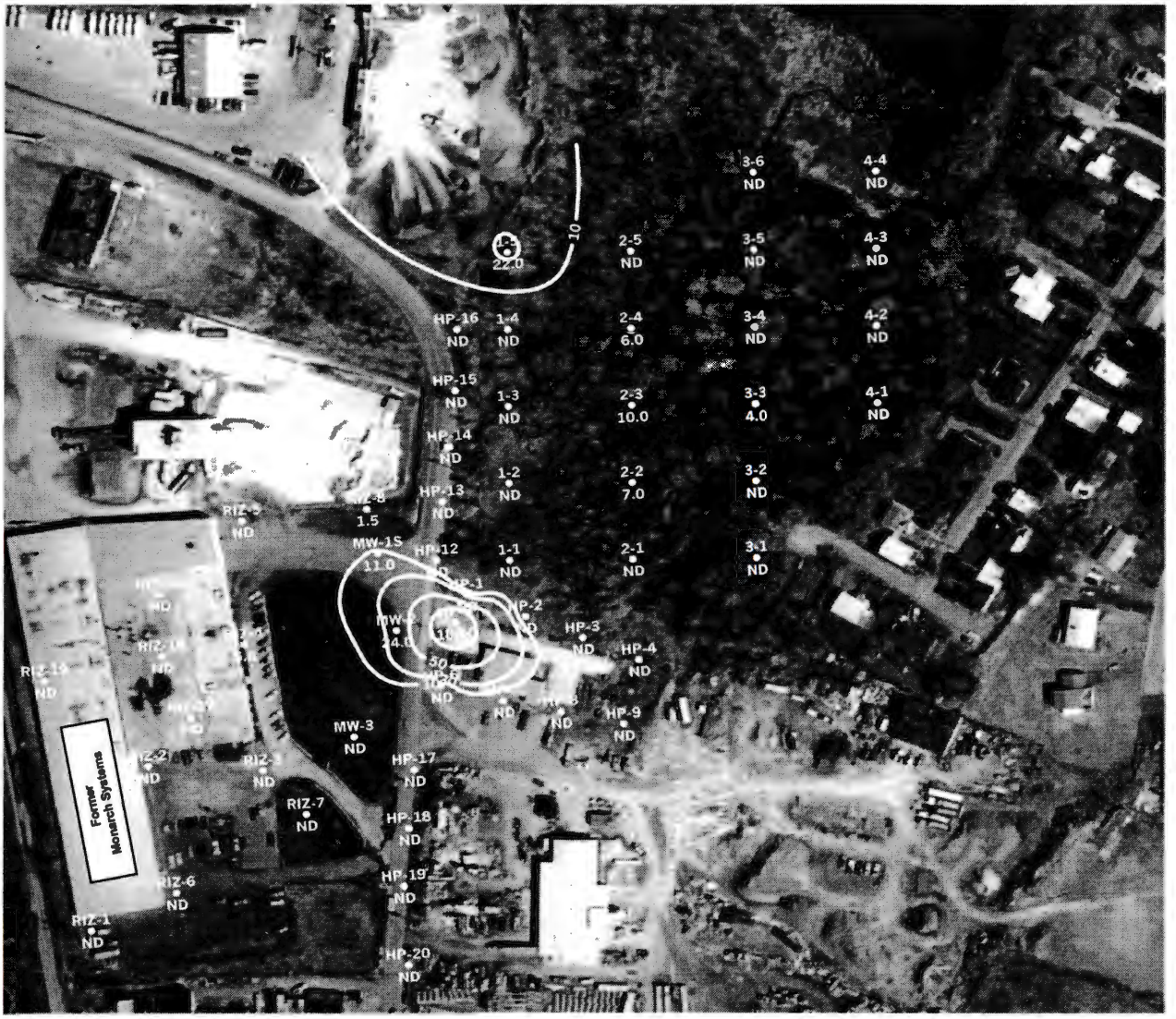
Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aeria Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-6

1,1,1-Trichloroethane (TCA)
Shallow Ground Water Concentration Distribution

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

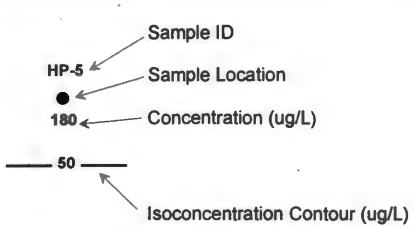


Sample ID Key:

1-1 through 4-4: Wetland hand auger shallow ground water samples (1-5 ft bgs)
HP-1 through HP-20: Hydropunch shallow ground water samples (15 ft bgs)
RIZ-1 through RIZ-18; MW-1S through MW-3: Water table monitoring wells

0 100 200 300 ft
Approximate Scale

N



Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-7

1,1-Dichloroethane (1,1-DCA)
Shallow Ground Water Concentration Distribution

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sediments within wetlands, reducing conditions are prevalent, providing a suitable environment for anaerobic microorganism activity. Under these conditions, anaerobic microorganisms utilize the chlorinated hydrocarbon as an electron acceptor (as well as other available electron acceptors such as nitrate, ferric iron oxyhydroxide, sulfate and carbon dioxide) to drive the reductive dechlorination process, where chlorine atoms are replaced with hydrogen atoms. Reductive dechlorination has been demonstrated under nitrate- and iron-reducing conditions, but the most rapid biodegradation rates occur under sulfate-reducing and methanogenic conditions (typically associated with wetland/marsh environments). Because chlorinated aliphatic hydrocarbon compounds are used as electron acceptors during reductive dechlorination, there must be an appropriate source of carbon (*i.e.*, electron donor) for microbial growth in order for this process to occur. As noted previously, the organic-rich sediments associated with the wetlands environment provide an abundant carbon substrate.

Review of area topography indicates that the wetland/swamp area to the east-northeast of the project site (together with the unnamed pond into which this area drains) forms the headwaters of a tributary to Quassaic Creek, which ultimately discharges to the Hudson River. Such headwater areas represent zones of ground water discharge; as such, shallow ground water flow paths are oriented laterally towards discharge into these zones, and deep ground water flow paths are oriented vertically upward towards discharge into these zones (as observed in well cluster MW-1S/MW-1D at the project site boundary). Consequently, in addition to the attenuation of contaminant concentrations afforded by the physical processes of advection and dispersion associated with plume migration, and the biological process of reductive dechlorination afforded by the wetlands environment, progressive dilution of the plume by the upward discharge of deep, uncontaminated ground water is also believed to play a role in defining the off-site concentration distribution and, consequently, the observed off-site plume geometry.

✦ ***Independent Contaminant Plumes From Other Sources***

Evidence of source areas other than the project site for the apparent independent contaminant plumes identified on Figures 3-1 through 3-7 include the following:

- Figure 3-2 exhibits a center of mass of the PCE plume to be located to the southeast of the project site, with a concentration at HP-19 an order of magnitude higher than any concentration detected on-site;

- Sample GW 1-5, which exhibits the highest total VOC concentration in the wetland/swamp area (191 ug/L), is located north of the northernmost tributary stream that traverses the wetlands. As noted previously, shallow ground water flow paths in the vicinity of stream drainage ways are oriented perpendicular to and towards such discharge zones. Consequently, a sample point located to the north of this tributary would be expected to reflect the quality of ground water originating from the northeast-north-northwest quadrant, rather than that associated with the project site to the south/southwest;

- Review of an environmental regulatory database search, prepared by Environmental Data Resources, Inc. (Figure 3-8; Appendix D), has indicated the presence of leaking underground storage tank (LUST) incidents to the north-northwest (Triangle PAC) and south-southeast (Kaiser Binding, Bearse Manufacturing Co., Inc.) of the project site; RCRA small and large quantity generators to the north-northwest of the project site (Frye Copysystems Inc., Arkel Motors Inc.); and a State Hazardous Waste Site (American Felt and Filter Corp.) to the northeast of the project site. As the wetland/swamp area represents a regional discharge sink for ground water, it is plausible that any of these sites may contribute to the low level VOC contamination detected to the north and south of the project site plume. Of particular interest in this regard is American Felt and Filter Corp., for which the primary contaminant of concern is reported to be TCA; this constituent comprises the largest contaminant mass in sample GW 1-5 (*i.e.*, 140 ug/L).

3.1.2 Metals Data

In addition to samples for VOC analysis, unfiltered samples were obtained from each of the GW sample locations (Town of New Windsor wetland/swamp property) for analysis of three metals (iron, manganese, and cadmium). These inorganic analysis were added to the sampling protocol following review of TAL analytical data derived from an on-site sampling event performed on January 22, 1999 [3]. This review indicated the presence of these three metals at higher concentrations in downgradient wells relative to the upgradient well on-site.

Figures 3-9, 3-10, and 3-11 indicate detected concentrations for iron, manganese, and cadmium, respectively (these data are also contained in Table 3-1) obtained from the off-site sampling program.

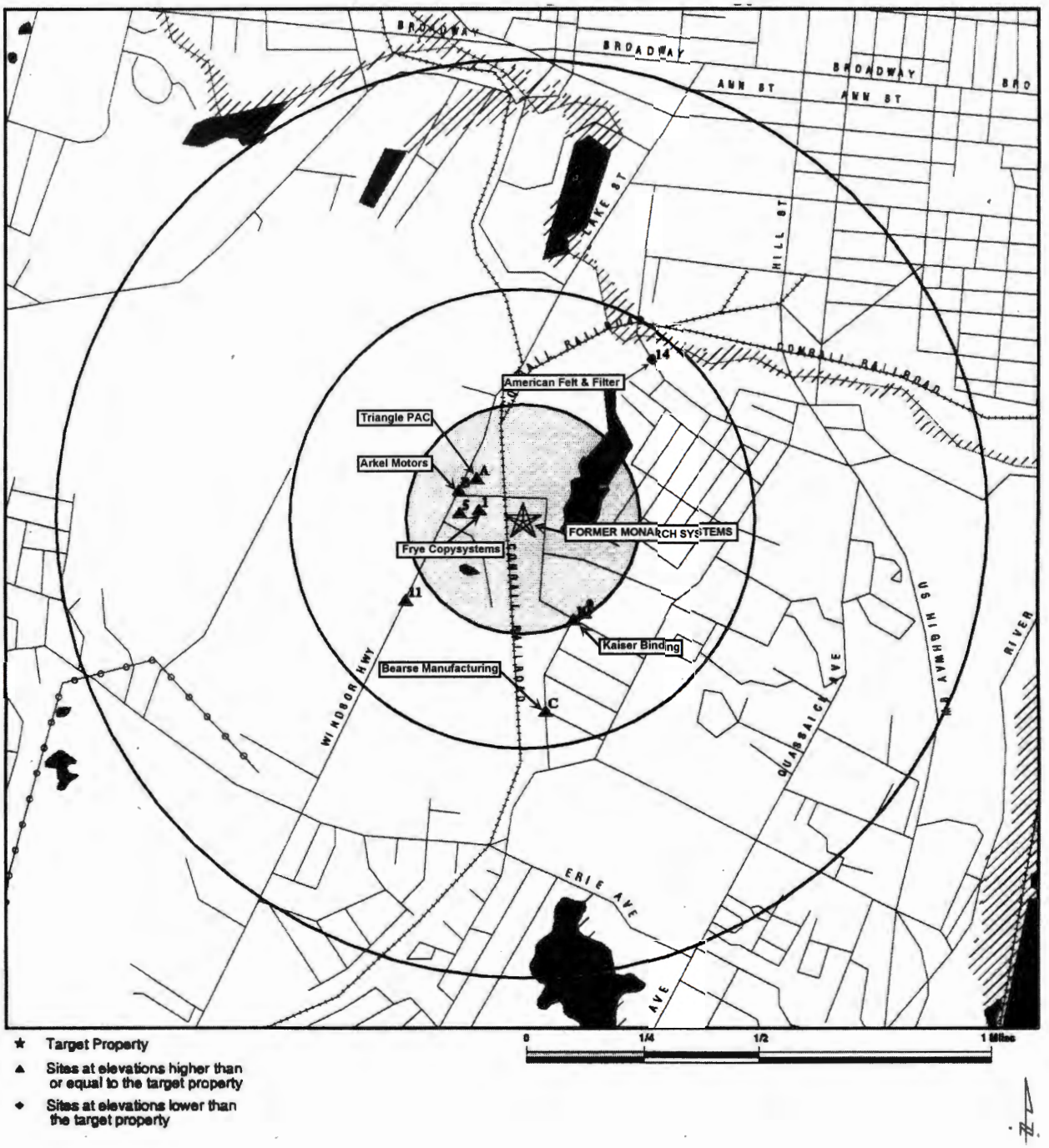
✦ ***Iron and Manganese***

The sample results for the iron and manganese data lead to the following observations and conclusions:

- Unlike the VOCs, the concentrations of iron and manganese show a fairly uniform distribution across the wetlands area, suggesting that the concentration distribution is not related to the project site.

- The concentration distribution of these metals is generally consistent with the distribution

[3]The January 22, 1999 sampling event for full TCL/TAL analysis was performed in response to NYSDEC comments on the Draft Supplemental Site Investigation Work Plan (Ogden, 1998). One upgradient well (RIZ-19), and three downgradient wells (MW-1S, MW-1D, and MW-2) were sampled as part of this event.



Source: Environmental Data Resources, Inc. (EDR); EDR-Radius Map, 15-21 Ruscitti Road, New Windsor, NY 12553; October 11, 1999 [Appendix D]

Figure 3-8

EDR Overview Map
Environmental Regulatory Database Search

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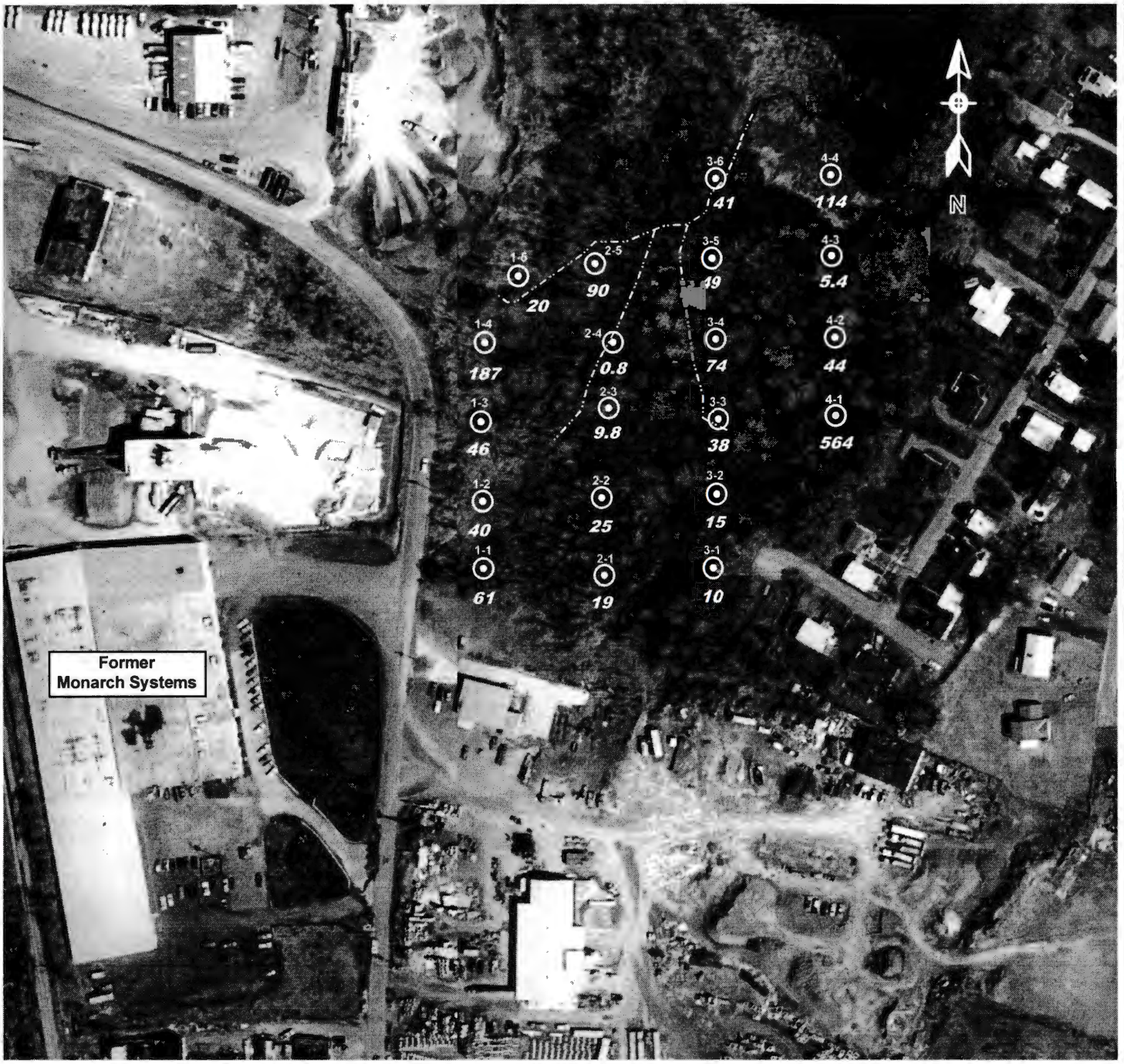

Sample Number

1-2

Sample Location

40

Total Fe Concentration (mg/L)

Tributary Stream

Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, March 1999
Stream Location Survey: "Survey of Lands for the Town of New Windsor", Daniel J. O'Brien, Middletown, NY, January 15, 1995
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-9

Total (Unfiltered) Iron
Shallow Ground Water Concentration Distribution
Town of New Windsor (Wetlands) Property

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Sample Number

1-2

Sample Location

40

Total Mn Concentration (mg/L)

Tributary Stream

Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, March 1999
Stream Location Survey: "Survey of Lands for the Town of New Windsor", Daniel J. O'Brien, Middletown, NY, January 15, 1995
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ Exp. No. ORG-1-67; April 23, 1990

Figure 3-10

Total (Unfiltered) Manganese
Shallow Ground Water Concentration Distribution
Town of New Windsor (Wetlands) Property

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Sample Number

1-2

Sample Location

40

Total Cd Concentration (ug/L)
[No value = nd]

B = Estimated concentration below method detection limit

Tributary Stream

Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, March 1999
Stream Location Survey: "Survey of Lands for the Town of New Windsor",
Daniel J. O'Brien, Middletown, NY, January 15, 1995
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ
Exp. No.ORG-1-67; April 23, 1990

Figure 3-11

Total (Unfiltered) Cadmium
Shallow Ground Water Concentration Distribution
Town of New Windsor (Wetlands) Property

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observed on-site (summarized below), further suggesting that the presence of these metals in the wetlands area is not related to the site:

	Wetlands Area		Project Site	
	Iron	Manganese	Iron	Manganese
Minimum (ug/L)	804	71	74	3.4
Maximum (ug/L)	564,000	4,650	39,000	9,000
Mean (ug/L)	72,668	1,556	19,648	2,415

- Higher concentrations of iron and manganese are associated with the more turbid samples, suggesting that the elevated concentrations of these metals are driven largely by the presence of fine grained sediment in the samples from the wetlands area.

In summary, the distribution and concentration range of the iron and manganese data do not suggest a project site influence and appear to be the result of natural conditions.

✦ ***Cadmium***

Cadmium was detected sporadically at the off-site monitoring points (*i.e.*, at 8 of the 20 GW sampling locations). As with iron and manganese, the concentration distribution of cadmium appears to be influenced by turbidity; however, none of the detected concentrations of cadmium exceed the NYSDEC drinking water criterion of 5 ug/L.

3.2 EVALUATION OF SOURCE AREA CONTAMINANT DEGRADATION

Based on the history of operations at the former Monarch Systems, Inc. facility, the source of VOC contamination at the project site was initially concluded be two vapor-phase degreasers located below grade within the central portion of the plant. This conclusion was confirmed first through the performance of soil gas analysis in the early 1990s by Rizzo Associates, Inc., and subsequently by soil and ground water sampling and analysis performed by Ogden, as documented in the Site Investigation Report (Ogden, 1998). The site investigation included the drilling of 26 borings, and sampling of soils for VOCs at the water table interface and lodgement till interface in virtually all borings, and at the bedrock interface in a selected subset of borings. The results of this investigation indicated that the presence of TCA and TCE at elevated concentrations in soil (*i.e.*, above recommended NYSDEC cleanup objectives) was limited primarily to the lodgement till interface in several areas adjacent and to the east of the location of the former vapor-phase degreasers. The contamination in these areas was not laterally extensive, as documented by adjacent and/or

surrounding soil borings. No non aqueous phase liquids (NAPLs) were encountered in any of the 360+ soil samples recovered during the various drilling operations.

Given the decommissioning and removal of the vapor phase degreasers in 1994 and the results of the site investigation (indicating limited extent of soil contamination and the absence of NAPL), it is believed that physical attenuation processes and/or biological degradation will allow for contaminant degradation within the source area over time. As noted previously, quarterly and/or semi-annual sampling of on-site monitoring wells has been performed since August 1995. Appendix E contains a summary database of analytical data compiled since that time to date, and also includes earlier data from wells installed by Rizzo Associates, Inc. in 1991 and 1993. Review of these data allow for an indirect assessment of the change in mass of source contaminants sorbed to the saturated soil matrix, as reflected in the down-gradient ground water concentration distribution.

3.2.1 First Order Decay

Many abiotic and biodegradation reactions decay according to first order (exponential) kinetics, or are assumed to be approximated by such kinetics. Mathematically, the first order decay is described by the following kinetic expression:

$$dC/dt = -KC$$

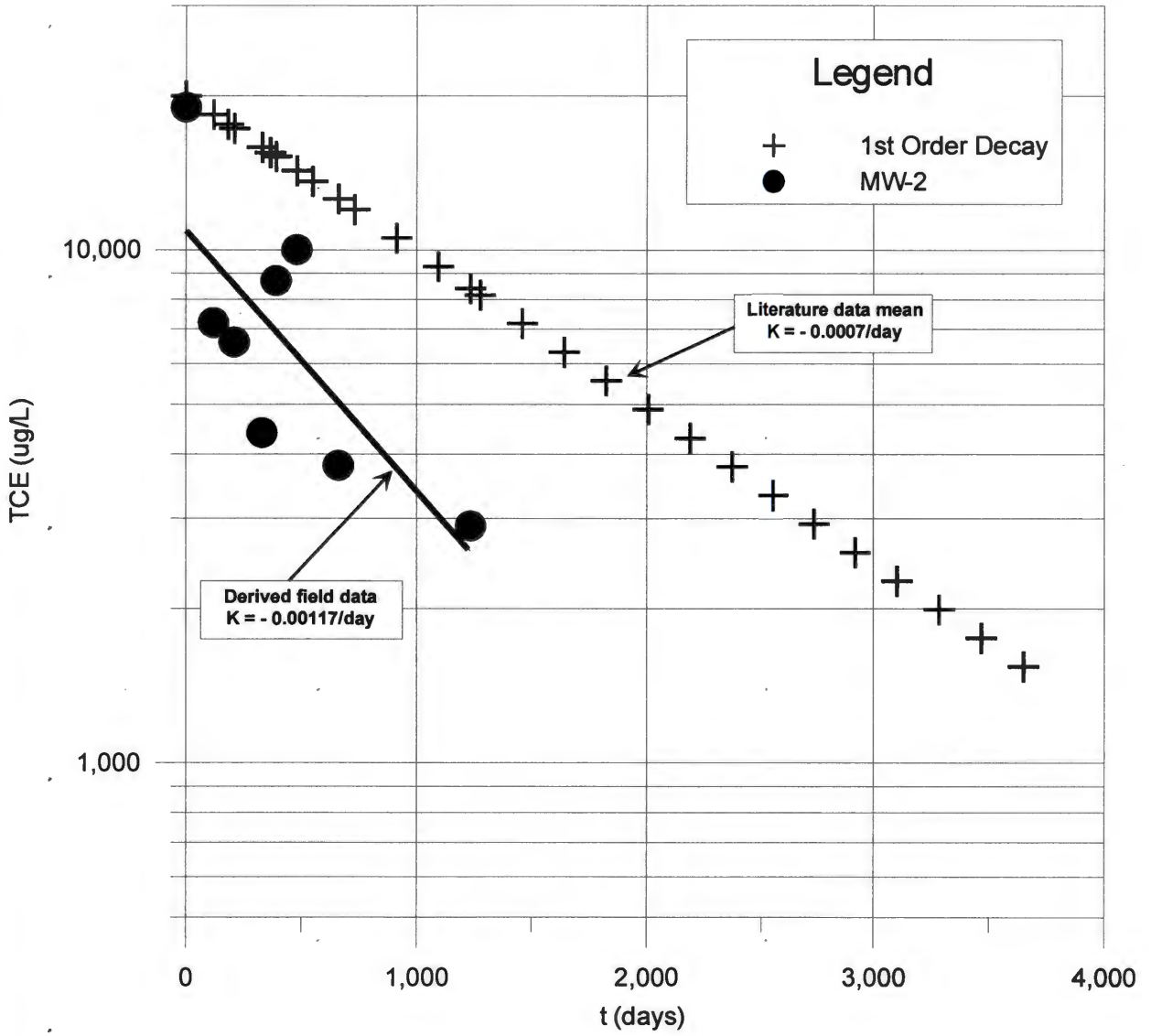
where C is the constituent concentration, and K is the first order decay constant, which is equal to $0.693/t_{1/2}$, where $t_{1/2}$ is the half-life of the contaminant. Integrating the above equation results in an expression showing that C decays exponentially with time, as follows:

$$C = C_o e^{-Kt}$$

where C_o is the initial constituent concentration, and C is the constituent concentration at time t.

Howard et al. (1991) in their ***Handbook of Environmental Degradation Rates*** provide half-lives for a wide variety of chemicals in air, surface water, and ground water. They also present aerobic and anaerobic half-lives for many chemicals undergoing unacclimated aqueous biodegradation. For TCE in ground water, Howard et al. provide high and low $t_{1/2}$ values of 1,653 days and 321 days, respectively; the mean of these data (987 days) corresponds to $K = -0.0007$/day. For TCA, Howard et al. provide a high aqueous anaerobic unacclimated biodegradation $t_{1/2}$ of 1,092 days and a high ground water $t_{1/2}$ of 546 days; the mean of these data (819 days) corresponds to $K = -0.00085$/day. Half-life data selected above represent the most conservative values provided in the cited reference.

Figures 3-12 and 3-13 provide plots of first order decay for TCE and TCA, respectively, based on the mean K data derived above from the literature, and compare these decay curves to field data



For literature data, 1st order decay defined as:

$$C = C_o e^{-kt}$$

where K is assumed to equal -0.0007/day based on mean of high (1,653 days) and low (321 days) $t_{1/2}$ data for ground water provided by Howard, et al., 1991; C_o = 20,000 ug/L (February 1996 sample data).

Field data K (MW-2) derived from exponential curve fitting.

Figure 3-12

TCE 1st Order Decay Vs. Field Data (MW-2)

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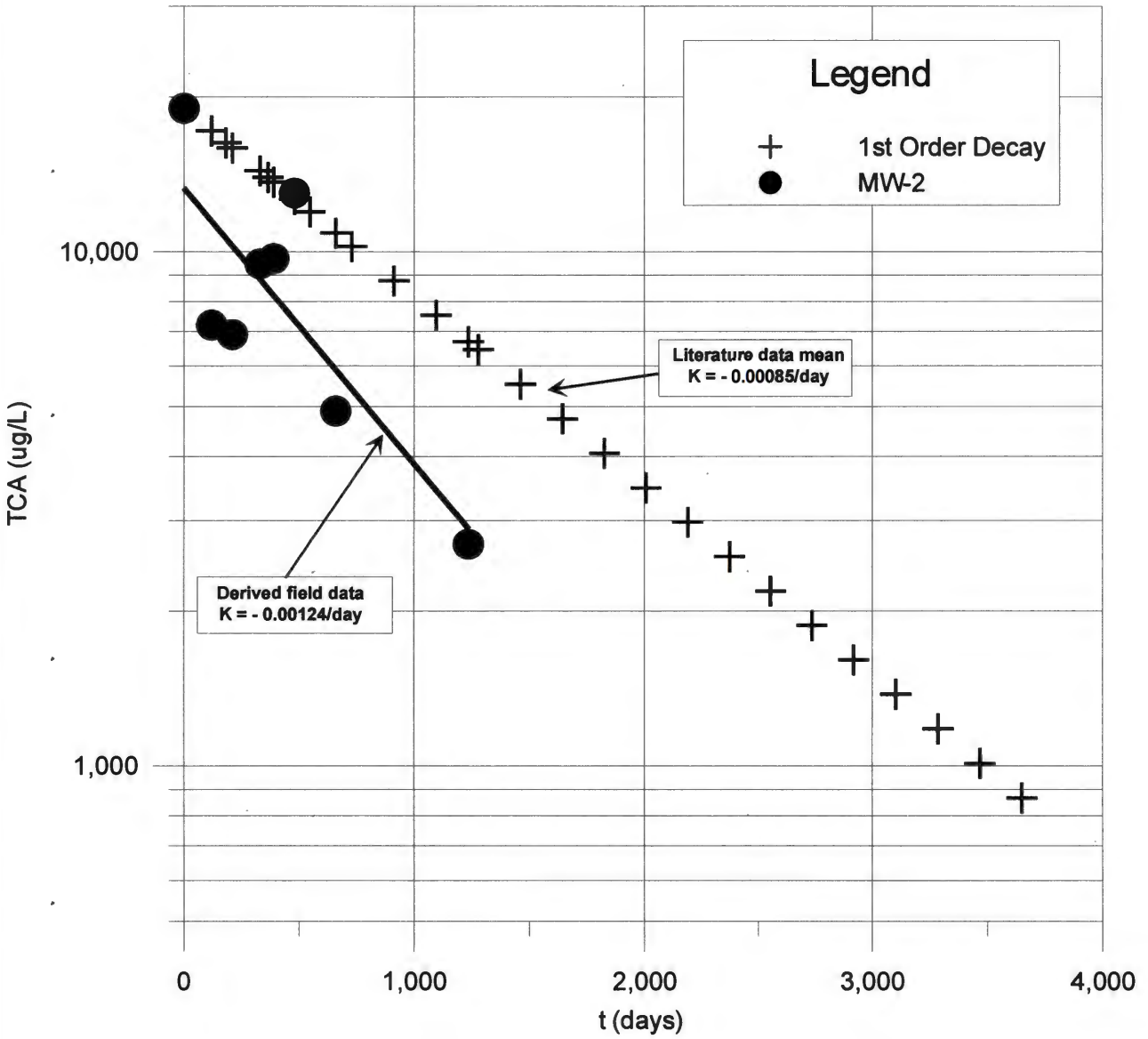

For literature data, 1st order decay defined as:

$$C = C_o e^{-kt}$$

where K is assumed to equal -0.00085/day based on mean of high ground water aerobic (546 days) and high aqueous anaerobic (1,092 days) $t_{1/2}$ data provided by Howard, et al., 1991; C_o = 19,000 ug/L (February 1996 sample data).

Field data K (MW-2) derived through exponential curve fitting.

Figure 3-13

TCA 1st Order Decay Vs. Field Data (MW-2)

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derived from well MW-2 [4]. MW-2 is defined as the "source area" for this analysis, representing ground water quality immediately down-gradient of remaining source contaminants sorbed to the saturated soil matrix; as such, it represents an indirect means of evaluating changes in the source contaminant mass over time. C_o on these plots corresponds to the February 1996 sampling event, with a TCE concentration of 20,000 ug/L, and a TCA concentration of 19,000 ug/L. The remaining time series of field data were drawn from the historical database contained in Appendix E.

Review of these plots indicates that a declining trend is apparent for both contaminants. Exponential curve fitting suggests first order decay rates for the MW-2 sample data to be higher than the mean literature value data; *i.e.*, K = -0.00117/day ($t_{1/2}$ = 592 days) versus K = -0.0007/day ($t_{1/2}$ = 987 days) for TCE, and K = -0.00124/day ($t_{1/2}$ = 559 days) versus K = -0.00085/day ($t_{1/2}$ = 819 days) for TCA. These data would suggest source area decay of contaminant concentrations in ground water to levels below ground water quality criteria within a period of 20 years.

It is important to note that the attenuation rates derived from the field data group all processes acting to reduce contaminant concentrations, and include advection, dispersion, dilution (from recharge and vertical flow gradients), and sorption, as well as biodegradation. The following analysis focuses on evaluation of the evidence of biologically mediated dechlorination at the project site, independent of the other natural attenuation factors.

3.2.2 Evaluation of Biologically Mediated Natural Attenuation

The term natural attenuation refers to a variety of physical, chemical, or biological processes, that under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil and ground water. These *in-situ* processes include biodegradation, dispersion, dilution, sorption, volatilization, and chemical or biological stabilization, transformation, or destruction of contaminants (U.S. EPA, OSWER Directive 9200.4-17P, April 1999). When relying on natural attenuation processes for site remediation, the U.S. EPA prefers those processes that degrade or destroy contaminants, the most important being biodegradation, although abiotic processes, such as hydrolysis, are important in some cases (*i.e.*, TCA).

In 1996, the Air Force Center for Environmental Excellence (AFCEE), in conjunction with the U.S. EPA, U.S. Geological Survey, and other academic and commercial entities published a ***Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater*** (Wiedemeier, et al., 1996). In addition to identifying comprehensive field testing and analytical protocols for site assessment, this document provided a preliminary screening process for the evaluation of biologically mediated natural attenuation processes, consisting of: (1) a list of pertinent analytical parameters for assessment, (2) weighting values or "scores" for each parameter, with

[4] MW-2 has historically exhibited the highest constituent concentrations at the project site.

increasing values reflective of higher evidence of natural attenuation, and (3) an interpretive guide to evaluate the sum of the assessment scores.

As discussed previously in Section 3.1.1 (Off-Site Plume Geometry), an ample organic carbon source is necessary to drive the biologically mediated reductive dechlorination process. While such a source (in the form of naturally organic rich sediments) is prevalent in the wetland area down-gradient of the project site, such is not generally the case on the project site, where coarser grained (less organic rich) sediments predominate. Consequently, it is believed that physical attenuation processes represent the primary mechanism for contaminant reduction on-site (as documented previously through the first-order decay analysis), while biological processes progressively increase in importance as the contaminant plume migrates into the wetland area. For this reason, application of the AFCEE protocol to on-site data would be expected to be inconclusive, while application to data derived from the wetlands area would be expected to support reductive dechlorination. In the ensuing text, the basis and background of the AFCEE protocol are more fully developed and it is applied to source area ground water analytical data; in Section 4.0, data collection and analysis under the protocol are recommended for the wetlands area to verify the conceptual model outlined above and previously in Section 3.1.1.

The screening protocol was applied to analytical data available for the project site at monitoring well MW-2 (representing the center of mass of the on-site contaminant plume), consisting of laboratory VOC and geochemical data and field measured data obtained during the September 2, 1999 sampling event. Table 3-3 compiles available data from MW-2, provides the appropriate weighting value, and sums the values to derive the overall assessment score. The rationale for inclusion of each of the parameters included in the assessment is described briefly below:

- Dissolved Oxygen: DO is the most thermodynamically favored electron acceptor used by microbes for the biodegradation of organic carbon, whether natural or anthropogenic. Anaerobic bacteria generally cannot function at dissolved oxygen concentrations greater than about 0.5 mg/L, and hence reductive dechlorination will not occur. Availability of a carbon source in the aquifer that can be used by aerobic microorganisms as a primary substrate is essential to allow for DO depletion (resulting from aerobic respiration). The biodegradation screening matrix applies a score of +3 for DO <0.5 mg/L, and -3 for DO > 1.0 mg/L.

- Nitrate: After DO has been depleted in the microbiological treatment zone, nitrate may be used as an electron acceptor for anaerobic biodegradation of organic carbon via denitrification. In order for reductive dechlorination to occur, nitrate concentrations in the contaminated portion of the aquifer must be less than 1.0 mg/L. The biodegradation screening matrix applies a score of +2 for nitrate < 1.0 mg/L.

- Iron II (ferrous): In some cases, iron (III) is used as an electron acceptor during anaerobic biodegradation of organic carbon. During this process, iron (III) is reduced to iron (II),

which may be soluble in water. The biodegradation screening matrix applies a score of +3 for iron II > 1.0 mg/L.

- Sulfate: After DO and nitrate have been depleted in the microbiological treatment zone, sulfate may be used as an electron acceptor for anaerobic biodegradation. This process is termed sulfate reduction and results in the production of sulfide. Concentrations of sulfate greater than 20 mg/L may cause competitive exclusion of dechlorination (*i.e.*, at high concentrations, microorganisms may preferentially utilize sulfate as an electron acceptor rather than the chlorinated hydrocarbon). The biodegradation screening matrix applies a score of +2 for sulfate < 20 mg/L.

- ORP (redox): The oxidation-reduction potential (Eh) of ground water is a measure of electron activity and is an indicator of the relative tendency of a solution to accept or transfer electrons. Oxidation-reduction reactions in ground water containing organic compounds (natural or anthropogenic) are usually biologically mediated, and therefore, the ORP of a ground water system depends on and influences rates of biodegradation. The biodegradation screening matrix applies a score of +1 for ORP < 50 mv (reductive pathway possible), or +2 for ORP < -100 mv (reductive pathway likely).

- pH: The pH of the ground water has an affect on the presence and activity of microbial populations in ground water. This is especially true for methanogens. Microbes capable of degrading chlorinated aliphatic hydrocarbons generally prefer pH in the range of 6 to 8 standard units. The biodegradation screening matrix applies a score of 0 for pH in the range of 5 to 9 units, and -2 for pH outside this range.

- Temperature: Ground water temperature directly affects the solubility of oxygen and other geochemical species. Ground water temperature also affects the metabolic activity of bacteria; rates of hydrocarbon biodegradation roughly double for every 10° C increase in temperature over the range 5° - 25° C. The biodegradation screening matrix applies a score of +1 for temperature in excess of 20° C.

- Chloride: During biodegradation of chlorinated hydrocarbons dissolved in ground water, chloride is released. This results in chloride concentrations in the contaminant plume that are elevated relative to background concentrations. The biodegradation screening matrix applies a score of +2 where chloride concentrations in the contaminant plume are observed to be two times background concentrations.

- Alkalinity: Alkalinity results from the presence of hydroxides, carbonates, and bicarbonates derived from the dissolution of rocks, the transfer of carbon dioxide from the atmosphere, and the respiration of microorganisms. Alkalinity is important in the maintenance of ground water pH because it buffers the ground water system against acids generated during both

aerobic and anaerobic biodegradation. The biodegradation screening matrix applies a score of +2 where alkalinity concentrations in the plume are observed to be two times background concentrations.

- 1,2-Dichloroethene: This compound is a daughter product of TCE, especially in the case where greater than 80% of total TCE is in the form of the *cis* isomer. Where this is the case (and 1,2-DCE is not a source constituent), the biodegradation screening matrix applies a score of +2.

- 1,1-Dichloroethene: This compound is a daughter product of TCE, or chemical reaction of TCA. Where present (and 1,1-DCE is not a source constituent), the biodegradation screening matrix applies a score of +2.

Table 3-3: Screening Matrix and Score for Evidence of Biodegradation

Analysis/Parameter	MW-2 Concentration	Weighting Score
Dissolved Oxygen [mg/L]	1.8	-3
Nitrate [mg/L]	0.9	2
Iron II (ferrous) [mg/L]	1	3
Sulfate [mg/L]	68.6	0
ORP (redox) [mv]	-140	2
pH [units]	6.4	0
Temperature [°C]	20.4	1
Chloride [mg/L]	75.8	0
Alkalinity [mg/L]	204	0
1,2-Dichloroethene [ug/L]	340 (total) [a]	2
1,1-Dichloroethene [ug/L]	93 J	2
	Total:	**9**

[a] For the September 2, 1999 sampling event, the analytical laboratory did not differentiate between the *cis-* or *trans-* isomers for 1,2-DCE; historical data do, however, indicate the presence of the cis- isomer exclusively.

The AFCEE protocol provides interpretation of the screening matrix score as follows: 0-5 = inadequate evidence for biodegradation of chlorinated organics; 6 - 14 = limited evidence for

biodegradation; 15 - 20 = adequate evidence for biodegradation; and > 20 = strong evidence for biodegradation. As discussed previously, the screening matrix score of 9 at monitoring well MW-2 is not unexpected, given the prevalence of coarse grained (organic carbon poor) sediments on-site.

While it is clear from the first order decay analysis that natural attenuation is occurring within the source area (apparently dominated by physical processes), it is likely that an adequate organic carbon source to support biologically mediated oxidation-reductions reactions and microbial growth occurs only adjacent to the fine grained (organic carbon rich) lenses mapped within the site lithology. Consequently, while evidence of reductive dechlorination is apparent (*i.e.*, ORP, nitrate, iron (II), and the presence of TCE/TCA daughter products), this process does not appear to represent the primary mechanism for natural attenuation on-site. Regardless, the operative on-site attenuation processes appear adequate to reduce contaminant concentrations to regulatory criteria levels within a 20 year time frame, based on the rate of source area degradation observed to date.

In Section 4.0, application of the AFCEE protocol to the down-gradient wetland area is proposed as part of a monitored natural attenuation program. This program has been designed to verify the conceptual model of contaminant fate and transport, which hypothesizes a progressive down-gradient increase in both reductive dechlorination and physical attenuation processes to explain the limited observed extent of the off-site contaminant plume.

4.0 REMEDIAL ACTION WORKPLAN

The results of the supplemental site investigation performed in off-site areas adjacent to the project site, as well as monitoring data from on-site wells, provide evidence to support natural attenuation of chlorinated solvents both at the source and laterally along the leading edge of the contaminant plume. On-site decay of contaminants would be expected due to the prior removal of the primary sources (vapor-phase degreasers), and the limited extent of highly contaminated soils identified during the site investigation. Geochemical data suggest some degree of biodegradation, which when coupled with advection, dispersion, and dilution afforded by precipitation and upward discharging ground water, would suggest a long-term decreasing trend in source area concentration. These presumptions are reflected in the evaluation of first-order decay kinetics for the source area, which indicates TCE/TCA half-lives on the order of 575 days.

Laterally, attenuation of the contaminant plume is observed to the east-northeast, with concentrations decreasing to non-detect levels within the Town of New Windsor wetland property. Rapid dechlorination would be expected to occur in this area due to the enhanced biodegradation of the chlorinated solvents afforded by the organic rich and anaerobic sediments associated with the swamp.

The Supplemental Site Investigation Work Plan (Ogden, 1999) identified a progressive sampling strategy for sediment and surface water in the pond located east of the wetland area, pending review of data derived from the initial phase of the investigation. The results of the wetland sampling (*i.e.*, Figures 3-1 through 3-7) do not support migration of contaminants from the project site to the pond. In addition, multiple off-site sources, all with the potential to discharge into regional hydraulic sink represented by the wetland/pond area, were identified through review of environmental regulatory agency databases (*i.e.*, Appendix D). Consequently, it is believed that the appropriate course of action at this time is to implement a long-term monitoring strategy to document source decay over time, and document biodegradation down gradient of the project site.

4.1 MONITORED NATURAL ATTENUATION

Definition of a monitored natural attenuation (MNA) program requires specification of five primary components: (1) monitoring network, (2) analytical protocol, (3) monitoring frequency, (4) reporting schedule, and (5) MNA duration. Each of these components is detailed below.

4.1.1 Monitoring Network

There are currently 18 monitoring wells on-site (RIZ-1 through RIZ-10, RIZ 16 through RIZ-19, MW-1S, MW-1D, MW-2, and MW-3 (Figure 2-1). Based on the historical record (Appendix E), and review of Figure 3-1, on-site wells can be segregated into two groups; *i.e.*, (1) those clearly

useful for the definition of the lateral extent of the contaminant plume, and (2) those representing upgradient or cross gradient conditions, useful for characterizing background or documenting the lack of lateral plume migration from the former vapor-phase degreaser source area. The latter are represented by wells RIZ-1, RIZ-2, RIZ-6, RIZ-9[5], RIZ-10[5], and RIZ-19. In consideration of the above, and the needs of geochemical characterization (Section 4.1.2), it is proposed that the monitoring network initially be comprised of all on-site wells, and subsequently be modified to exclude the group (2) wells, in accordance with the schedule outlined in Section 4.1.3.

No off-site wells have been installed to date. In order to monitor the down gradient concentration distribution and document natural attenuation processes, two off-site wells are proposed for installation as part of the MNA program (Figure 4-1). Following negotiation of an installation schedule with the respective property owners (A&R Concrete and the Town of New Windsor), MW-4 will be constructed as a 4 in. diameter PVC well, screened across the water table, and completed with a locking cap and flush mount road box, and well MW-5 will be constructed as a driven, 2 in. diameter stainless steel well point, with locking cap. Due to severe access constraints, the location of MW-5 may need to be modified in the field from that depicted on Figure 4-1.

4.1.2 Analytical Protocol

The MNA analytical protocol consists of three components: (1) Target Compound List (TCL) Volatile Organic Compound (VOC) analysis (including library search for tentatively identified compounds [+10], and differentiation between *cis*- and *trans*- isomers of 1,2-dichloroethene), (2) a suite of geochemical parameters for assessment of biodegradation; *i.e.*, methane, ethane, ethene, chloride, TOC, nitrate, sulfate, sulfide, alkalinity, ORP (redox), and ferrous iron [iron (II)], and (3) field indicator parameter measurements; *i.e.*, DO, temperature, and pH. The TCL VOC analysis will be consistently performed across all monitoring periods for the duration of the MNA program, as will the field indicator parameter measurements. As noted in Section 4.1.3, analysis of the geochemical parameter suite will be performed during the initial phase of the MNA (to confirm geochemical relationships on-site, and document those off-site), and then only periodically thereafter. Table 4-1 details the analytical protocol for the selected monitoring parameters. With the exception of analytes requiring specialized analytical protocols (*e.g.*, methane, ethane, ethene), all analysis will be performed by an NYSDOH ELAP-CLP certified laboratory. Analytical data will be reported in the NYSDEC Analytical Services Protocol (ASP) Category B deliverables format.

[5]Note that upgradient wells RIZ-9 and RIZ-10 (small diameter well points located adjacent to the western exterior of the Former Monarch Systems, Inc. facility) are not indicated on Figure 2-1, as the wells were dry during the September 2, 1999 sampling event.

0 100 200 300 ft

Approximate Scale

N

⊕ Proposed Monitoring Well (MW-4) and Well Point (MW-5) Location

Sample Point Survey: Grevas & Hildreth, P.C., Newburgh, NY, May 1996; March 1999
Aerial Photo Base: Robinson Aerial Surveys, Inc., Newton, NJ
Exp. No. ORG-1-67; April 23, 1990

Figure 4-1

Proposed Location of Off-Site Monitoring Points
Monitored Natural Attenuation (MNA) Program

Former Avery Dennison-Monarch Systems, Inc.
New Windsor, New York

OGDEN ENVIRONMENTAL AND ENERGY SERVICES CO., INC.
285 DAVIDSON AVENUE, SOMERSET, NEW JERSEY 08873

Table 4-1: MNA Analytical Protocol

Parameter	Analytical Method	Sample Preservation	Analytical Holding Times	Container (# / sample)
TCL VOC +10 [a]	OLM03.2 (8260)	Cool 4° C; no headspace	7 days from VTSR[b]	(3) Glass vial, teflon lined septum cap, 40 ml
		Cool 4° C; no headspace HCL to pH < 2	14 days from VTSR[b]	
Methane, ethane, ethene[c]	3810 (modified) or Kampbell et al., 1989	Cool 4° C; no headspace H_2SO_4 to pH < 2	14 days from VTSR[b]	(3) Glass vial, teflon lined septum cap, 40 ml
Chloride	4500 CLB	Cool 4° C	28 days	(1) Glass or plastic, 200 ml
Total Organic Carbon (TOC)	415.1	Cool 4° C H_2SO_4 to pH < 2	28 days	(1) Glass, 250 ml
Nitrate	352.1	Cool 4° C	48 hours	(1) Glass or plastic, 100 ml
Sulfate	375.4	Cool 4° C	28 days	(1) Glass or plastic, 50 ml
Sulfide	376	Cool 4° C; Zn acetate and NaOH to pH > 9	7 days	(1) Plastic, 1 L
Alkalinity	310.1	Cool 4° C	14 days	(1) Glass or plastic, 100 ml
Ferrous Iron (Fe^{+2})	HACH method 8051	Analyze immediately	Analyze immediately	(1) Glass or plastic, 50 ml
Dissolved Oxygen (DO)	YSI Model 95 or equivalent	Analyze immediately	Analyze immediately	Field determined
Temperature	YSI Model 63 or equivalent	Analyze immediately	Analyze immediately	Field determined
pH	YSI Model 63 or equivalent	Analyze immediately	Analyze immediately	Field determined
ORP (redox)	Orion Model 1230 or equivalent	Analyze immediately	Analyze immediately	Field determined

[a] Specify differentiation of *cis*-1,2-dichloroethene and *trans*-1,2-dichloroethene isomers
[b] Verified time of sample receipt
[c] Pending identification of certified laboratory

4.1.3 Monitoring Frequency

The monitoring program is proposed to consist of three schedule elements: (1) an initial one year period where semi-annual monitoring is performed for TCL VOC, field indicator parameters, and geochemical parameters at all on-site and off-site monitoring wells; (2) a subsequent two year period where semi-annual monitoring is performed for TCL VOC and field indicator parameters at a subset of on-site wells (per Section 4.1.1, above) and off-site wells, and geochemical parameters are obtained during one sampling event in each year; and (3) a long-term monitoring program where TCL VOC and field indicator parameters are measured annually at the subset of on-site wells and off-site wells for the duration of the MNA. The monitoring schedule is summarized in table 4-2, below:

Table 4-2:MNA Monitoring Schedule

Year	Quarter	All On-Site Wells	Subset of On-Site Wells	Off-Site Wells	TCL-VOC	Field Indicator Parameters	Geochemical Parameters
1	Summer	●		●	●	●	●
1	Winter	●		●	●	●	●
2	Summer		●	●	●	●	
2	Winter		●	●	●	●	●
3	Summer		●	●	●	●	●
3	Winter		●	●	●	●	
4	Summer		●	●	●	●	
5	Winter		●	●	●	●	
6+	Repeat		Repeat	Repeat	Repeat	Repeat	

4.1.4 Reporting Schedule

Over the course of the MNA program, annual reports will be prepared that: (1) specify field sampling protocols, (2) document field sampling methods, (3) summarize and interpret laboratory analytical data (including 1st order decay trend line analysis), (4) suggest recommendations for further action or modification to the MNA protocol, as appropriate, and (5) incorporate full laboratory analytical data package backup. Reports will be submitted to NYSDEC during the first quarter of each year following the semi-annual or annual sampling event(s).

4.1.5 MNA Duration

As noted in Section 3.2.1, the apparent rate of source decay of TCE and TCA suggests a time frame on the order of 20 years for natural attenuation processes to reduce constituent concentrations to a level below ground water quality standards (*i.e.*, 5 ug/L for TCE and TCA), and it is presumed that this time frame would represent the outside limit on MNA duration. It is expected that periodic data reviews will be scheduled with NYSDEC over the monitoring period (annually or biennially), and that the results of ongoing data analysis will ultimately drive the long-term MNA schedule and/or the need to implement active controls within the on-site source area.

5.0 REFERENCES

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Wiedemeier, Todd H., Matthew A. Swanson, David E. Montoux, and E. Kinzie Gordon [Parsons Engineering Science, Inc.], Dr. John T. Wilson, Dr. Barbara H. Wilson, and Dr. Donald H. Kampbell [U.S. EPA, National Risk Management Research Laboratory], Jerry E. Hansen and Patrick Haas [Air Force Center for Environmental Excellence], and Dr. Francis H. Chapelle [U.S. Geological Survey]. November 1996. ***Technical Protocol for Evaluating Natural Attenuation of Chlorinated Solvents in Groundwater.*** Air Force Center for Environmental Excellence, Technology Transfer Division, Brooks AFB, San Antonio, TX.

APPENDIX A

AQUIFER SYSTEMS, INC.
WELL PURGING AND SAMPLING FIELD DATA REPORTS

FIELD SAMPLING REPORT

CLIENT: Avery Dennison
FACILITY: New Windsor
FACILITY LOCATION: New Windsor, New York

SAMPLE DATE: SEPTEMBER 2, 1999
F.B. #: NEWWINSR
JOB #: NEWWINSR

PURGING DATA

WELL NO.	MW-1S	MW-1D	MW-2	MW-3	RIZ-1	RIZ-9	RIZ-10
PURGE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999
CLEAR BAILER SURVEY	ND	ND	ND	ND	ND	ND	ND
PRE-PURGE pH	6.37	6.88	6.30	6.29	6.48	0.00	0.00
PRE-PURGE TEMP (C)	22.6	23.0	22.0	19.5	15.8	0.0	0.0
PRE-PURGE D.O.(mg/l)	1.4	4.4	1.9	1.8	2.7	0.0	0.0
PRE-PURGE VIS. APPEARANCE	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
START PURGE TIME	12:42	12:20	12:56	15:03	16:23	0:00	0:00
END PURGE TIME	12:53	12:55	13:08	15:15	16:25	0:00	0:00
DEPTH TO BOTTOM (ft)*	15.50	54.28	11.60	12.75	19.46	0.00	0.00
DEPTH TO WATER (ft)*	3.71	3.08	3.07	2.98	13.03	DRY	DRY
WATER COLUMN (ft)	11.79	51.20	8.53	9.77	6.43	0.00	0.00
WELL DIAMETER (in)	4	4	4	4	2	1	1
WATER VOLUME IN CASING (gal)	7.66	33.28	5.54	6.35	1.03	0.00	0.00
VOLUME TO PURGE (gal)	22.99	99.84	16.63	19.05	3.09	0.00	0.00
ACTUAL VOLUME PURGED (gal)	21.3	35.0	18.0	21.0	1.5	0.00	0.00
FLOW RATE (gpm)	2	1	1.8	1.5	<1	0	0
PURGING METHOD	CP	SP	CP	CP	CP	HB	HB
DTW AFTER PURGING (ft)*	DRY	DRY	5.40	7.20	DRY	DRY	DRY
POST-PURGE pH	-	-	6.27	6.33	-	-	-
POST-PURGE TEMP (C)	-	-	21.9	20.8	-	D	D
POST-PURGE D.O. (mg/l)	-	-	2.0	1.9	-	R	R
POST-PURGE VIS. APPEARANCE	-	-	S TURBID	CLEAR	-	-	-

SAMPLING DATA

SAMPLE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999
DTW BEFORE SAMPLING (ft)*	4.49	4.75	3.72	0.00	13.16	0.00	0.00
SAMPLE TIME	13:20	17:05	13:13	15:20	17:35	0:00	0:00
SAMPLING METHOD	TB	TB	TB	TB	TB	TB	TB
pH	6.74	6.84	6.38	6.35	6.52	0.00	0.00
TEMPERATURE (cent.)	20.4	21.5	20.4	19.4	16.8	0.0	0.0
D.O. (mg./l)	3.0	1.0	1.8	1.8	3.0	0.0	0.0
REDOX (Eh mv+250)	-120.0	-139.8	-141.0	-170.1	-123.3	0.0	0.0
FERROUS IRON mg/L	0.0	0.0	0.0	1.0	0.0	0.0	0.0
VIS. APPEARANCE	S.TURBID	CLEAR	S TURBID	CLEAR	CLEAR	CLEAR	CLEAR

FIELD SAMPLING REPORT (contd.)

PURGING DATA

WELL NO.	RIZ-2	RIZ-3	RIZ-4	RIZ-5	RIZ-6	RIZ-7	RIZ-8
PURGE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999
CLEAR BAILER SURVEY	ND	ND	ND	ND	ND	ND	ND
PRE-PURGE pH	6.42	5.87	6.33	6.31	5.94	6.19	6.28
PRE-PURGE TEMP (C)	18.0	21.4	19.2	18.6	18.0	18.9	20.7
PRE-PURGE D.O.(mg/l)	1.9	1.7	5.8	5.1	1.7	2.0	1.1
PRE-PURGE VIS. APPEARANCE	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
START PURGE TIME	16:48	15:50	14:45	14:19	16:36	15:29	13:40
END PURGE TIME	16:53	15:57	14:49	14:26	16:37	15:34	13:47
DEPTH TO BOTTOM (ft)*	19.35	17.30	21.80	16.30	14.36	11.10	17.30
DEPTH TO WATER (ft)*	12.57	9.11	14.27	12.52	9.10	4.90	2.94
WATER COLUMN (ft)	6.78	8.19	7.53	3.78	5.26	6.20	14.36
WELL DIAMETER (in)	2	2	2	2	2	2	2
WATER VOLUME IN CASING (gal)	1.08	1.31	1.20	0.60	0.84	0.99	2.30
VOLUME TO PURGE (gal)	3.25	3.93	3.61	1.81	2.52	2.98	6.89
ACTUAL VOLUME PURGED (gal)	0.0	4.0	0.0	2.0	1.0	3.0	7.0
FLOW RATE (gpm)	<1	<1	<1	<1	<1	<1	1.0
PURGING METHOD	CP	CP	CP	CP	CP	CP	CP
DTW AFTER PURGING (ft)*	13.20	14.90	DRY	12.82	DRY	5.03	DRY
POST-PURGE pH	6.42	6.16	-	6.22	*	6.22	-
POST-PURGE TEMP (C)	18.0	19.6	-	18.6	*	18.4	-
POST-PURGE D.O. (mg/l)	2.0	2.6	-	5.6	*	1.9	-
POST-PURGE VIS. APPEARANCE	CLEAR	SL TURBID	-	S.TURBID	*	CLEAR	-

SAMPLING DATA FIELD BLANK @ 14:00

SAMPLE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999	09/02/1999
DTW BEFORE SAMPLING (ft)*	12.80	0.00	16.28	12.52	10.20	4.90	7.28
SAMPLE TIME	16:55	16:00	17:20	14:30	17:40	15:40	13:50
SAMPLING METHOD	TB	TB	TB	TB	TB	TB	TB
pH	6.46	6.28	6.56	6.31	5.99	6.21	6.41
TEMPERATURE (cent.)	17.8	19.4	19.2	18.5	17.9	18.3	17.0
D.O. (mg./l)	2.0	2.5	5.4	5.3	1.6	1.7	3.7
REDOX (Eh=mv+250)	-135.5	-111.1	-93.0	19.5	-142.5	-127.1	-117.0
FERROUS IRON	0.0	0.0	0.0	0.0	1.0	0.0	0.0
VIS. APPEARANCE	CLEAR	SL TURBID	CLEAR	S.TURBID	CLEAR	CLEAR	CLEAR

FIELD SAMPLING REPORT (contd.)

PURGING DATA

WELL NO.	RIZ-16	RIZ-17	RIZ-18	RIZ-19
PURGE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999
CLEAR BAILER SURVEY	ND	ND	ND	ND
PRE-PURGE pH	6.06	6.63	6.06	6.20
PRE-PURGE TEMP (C)	16.9	16.4	16.9	15.1
PRE-PURGE D.O.(mg/l)	4.6	2.6	4.4	4.4
PRE-PURGE VIS. APPEARANCE	CLEAR	CLEAR	CLEAR	SLTURB
START PURGE TIME	10:45	9:50	11:35	10:20
END PURGE TIME	10:55	10:00	11:45	10:25
DEPTH TO BOTTOM (ft)*	18.43	17.88	19.16	18.04
DEPTH TO WATER (ft)*	15.75	15.18	16.32	15.04
WATER COLUMN (ft)	2.68	2.70	2.84	3.00
WELL DIAMETER (in)	2	2	2	2
WATER VOLUME IN CASING (gal)	0.43	0.43	0.45	0.48
VOLUME TO PURGE (gal)	1.29	1.30	1.36	1..44
ACTUAL VOLUME PURGED (gal)	1.5	1.30	0.0	1.5
FLOW RATE (gpm)	<1	<1	0.0	<1
PURGING METHOD	HB	HB	HB	HB
DTW AFTER PURGING (ft)*	17.68	16.28	16.32	15.10
POST-PURGE pH	6.16	6.09	6.06	6.03
POST-PURGE TEMP (C)	15.4	14.9	16.7	14.0
POST-PURGE D.O. (mg/l)	5.4	2.5	5.0	4.8
POST-PURGE VIS. APPEARANCE	TURBID	TURBID	TURBID	TURBID

SAMPLING DATA

SAMPLE DATE	09/02/1999	09/02/1999	09/02/1999	09/02/1999
DTW BEFORE SAMPLING (ft)*	15.75	15.30	16.32	15.04
SAMPLE TIME	11:00	10:50	11:50	10:37
SAMPLING METHOD	TB	TB	TB	TB
pH	6.13	6.08	6.12	6.01
TEMPERATURE (cent.)	15.6	14.9	15.4	14.2
D.O. (mg./l)	5.2	2.6	4.7	4.9
REDOX (Eh = mv+250)	-44.7	-185.5	-75.5	-65.7
FERROUS IRON	0.0	0.0	0.0	0.0
VIS. APPEARANCE	TURBID	TURBID	TURBID	TURBID

FIELD SAMPLING REPORT (Cont'd)

COMMENTS:

ND: NONE DETECTED

HB: HAND BAILED

CP: CENTRIFUGAL PUMP

TB: TEFLON BAILER

SP: SUBMERSIBLE PUMP

PV: PVC BAILER

PD: PURGED DRY

* MEASUREMENT TAKEN FROM TOP OF PVC CASING UNLESS OTHERWISE INDICATED.

FOR ADDITIONAL COMMENTS, PLEASE SEE SAMPLE COLLECTION, PRESERVATION AND FIELD INFORMATION FORM.

THE DATA PRESENTED IS CERTIFIED TO BE ACCURATE AT THE TIME OF SAMPLING.

SIGNED: _____

AQUIFER SYSTEMS, INC.
NJDEPE Certified Laboratory # 14029

APPENDIX B

TRACER RESEARCH CORPORATION
VAPOR TRACE® GROUNDWATER INVESTIGATION

Tracer Research Corporation

Vapor Trace® Groundwater Investigation

INDUSTRIAL SITE
August 3,4 and 16, 1999
Windsor, New York

Tracer Research Corporation

Vapor Trace® Groundwater Investigation

INDUSTRIAL SITE
Windsor, New York

August 3, 4 and 16, 1999

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Submitted by:

Marjorie Stivers

Marjorie Stivers

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TABLES

1.0 Vapor Trace® Groundwater Survey

Tracer Research Corporation (Tracer Research) performed a *Vapor Trace*® groundwater investigation at an Industrial Site located in Windsor, New York. The groundwater investigation was conducted August 3, 4 and 16, 1999 for Ogden Environmental of Somerset, New Jersey.

1.1 Objective

The purpose of the investigation was to screen the groundwater samples for the presence of volatile organic compounds (VOCs). The samples were collected and analyzed for the following analyte classes and compounds:

Analyte Class: Halocarbons

1,1 Dichloroethene (11 DCE)
1,1 Dichloroethane (11 DCA)
1,2 Dichloroethene cis and trans isomers (12 DCE)
1,2 Dichloroethane (1,2 DCA)
Trichloroethane (TCA)
Trichloroethene (TCE)
Tetrachloroethene (PCE)

2.0 Groundwater Sampling Methodology

Groundwater sampling probes consisted of three-foot sections of drill steel coupled together and pushed/pounded to the desired depth. Once at the desired depth, water was allowed to collect in the probe via a stainless steel screen. Samples were collected using a check valve attached to polyethylene tubing, mini bailer or peristaltic pump. The groundwater samples were collected at depths of 15 to 30 feet below ground surface (bgs).

Groundwater samples were collected in 40-milliliter VOA vials that were filled to exclude air and capped with Teflon-lined septa caps. Approximately half of the liquid in the bottle was decanted. The vials were then shaken vigorously and a sample of the headspace from the container was injected into the gas chromatograph.

Indirect (headspace) analysis is the preferred technique when a large number of water samples are to be analyzed daily. The method is more time efficient for the measurement of volatile organics than direct injection of the water sample into the GC because there is less chance of semi-volatile and non-volatile contamination of the system. Depending upon the partitioning coefficient of a given compound, the indirect analysis method may be more sensitive than the direct injection method. The precision and accuracy of both methods are similar.

3.0 Analytical Methodology

During this investigation, up to 40 mL (milliliters) of groundwater were collected for each sample and immediately analyzed in the Tracer Research analytical van. Subsamples (replicates) from these samples were injected into the gas chromatograph (GC) in volumes of 1 to 1,000 microliters (µL) depending on the VOC concentrations in the sample.

Analytical instruments were calibrated at the beginning of the investigation using fresh working standards made from National Institute of Sciences and Technology (NIST) traceable standards and reagent blanked solvents.

The GC was calibrated for indirect analysis by decanting 20 mL of the known standard, leaving approximately the same amount of headspace as in the groundwater samples. The standard bottle was resealed and shaken vigorously for 30 seconds. An analysis of the headspace in the bottle determined the Response Factor (RF) which was then used to calculate the sample concentrations.

3.1 Chromatographic System

A Hewlett Packard 5890 Series II gas chromatograph, equipped with a flame ionization detector (FID), electron capture detector (ECD) and two computing integrators, were used for sample analysis. The analytical compounds were separated in the GC on a 6-foot by 1/8 inch outer diameter (OD) packed analytical columns (1% SP1000 stationary phase bonded to 60/80 Carbopack B support) in a temperature controlled oven. Nitrogen was used as the carrier gas.

The instrument calibrations were checked periodically throughout the day to monitor the response factors and retention times. The following paragraphs explain the GC and ECD processes.

GC Process

The sample is injected into the GC where it is swept through the analytical column by the carrier gas. The detector senses the presence of a component different from the carrier gas and converts that information to an electrical signal. The components of the sample pass through the column at different rates, according to their individual properties, and are detected by the detector. Compounds are identified by the time it takes them to pass through the column (retention time).

ECD Process

The ECD captures low energy thermal electrons that have been ionized by beta particles. The flow of these captured electrons into an electrode produces a small current, which is collected and measured. When the halogen atoms are introduced into the detector, electrons that would otherwise be collecting at the electrode are captured by the sample, resulting in decreased current. The current causes the computing integrator to record a peak on a chromatogram. The area of the sample peak is compared to the peak generated by a known standard to determine the concentration of the analyte.

3.2 Analyses

The detection limits for target compounds depend on the sensitivity of the detector to the individual compound as well as the volume of the sample injection. The detection limits of the target compounds were calculated from the response factor, the sample injection size and the calculated minimum peak size (area) observed under the conditions of the analyses. If any compound was not detected in an analysis, the detection limit is given as a "less than" value, e.g., <0.1 µg/L.

Table 1. Detection Limits for Target Compounds

Compound	Approximate Detection Limit in Groundwater (µg/L)
11 DCE	0.2
11 DCA	2
12 DCE	0.8
12 DCA	3
TCA	0.003
TCE	0.01
PCE	0.004

4.0 Quality Assurance and Quality Control

Tracer Research's Quality Assurance (QA) and Quality Control (QC) program was followed to maintain data that was reproducible through the investigation. An overview presenting the significant aspects of this program is presented on the following pages.

Sampling Quality Assurance

To ensure consistent collection of samples, the following procedures are performed:

Sampling Probes

The drill steel is isolated from the groundwater sample by the water sampling apparatus. The drill steel is washed with potable water and alconox at the end of the day as part of the regular maintenance schedule.

Glass Syringes

Glass syringes are used for only one sample a day and are washed and baked out at night. If they must be used twice, they are purged with carrier gas (nitrogen) and baked out between samples.

Groundwater Samplers

Each stainless screen sampler/ sampling apparatus and check valve is decontaminated after each use with an alconox based detergent.

VOA Vials

VOA vials are used only once and then discarded to avoid cross contamination.

Analytical Quality Assurance Samples

Quality assurance samples are performed at the minimum frequencies listed in Table 2. The actual frequency depends on the number of samples analyzed each day and the length of time of the survey.

Table 2. Quality Assurance Samples

Sample Type	Frequency
Ambient Air Samples	2 per day or 1 per site
Analytical Method Blanks	1 per day
Continuing Calibration Check	20 % (1 every 5 samples)
Field System Blank	1 per day
Reagent Blank	1 per set of working standards
Replicate Samples	10% of all samples

The ambient air samples are obtained on site by sampling the air immediately outside the mobile analytical van and directly injecting it into the GC.

Analytical method blanks are taken to demonstrate that the analytical instrumentation is not contaminated. These are performed by injecting carrier gas (nitrogen) into the GC with the sampling syringe. Subsampling syringes are also checked in this fashion. Continuing calibration checks are analyzed to verify the detector response for the target VOCs. If the response changes by more than twenty-five percent, the gas chromatograph is recalibrated and new response factors are calculated.

A reagent blank is performed to ensure the solvent used to dilute the stock standards is not contaminated. Analytical instruments are calibrated daily using fresh working standards made from National Institute of Sciences and Technology traceable standards and reagent blanked solvents.

Quantitative precision is assured by replicating analysis of ten percent of the samples. Replicate analyses are performed by subsampling vapors from the same sampling syringe.

The injector port septa through which samples are injected into the GC are replaced daily to prevent possible gas leaks from the chromatographic column. All sampling and subsampling syringes are decontaminated after use and are not used again until they have been decontaminated by washing in anionic detergent and baking at 90°C.

5.0 Results

The analytical results from this groundwater investigation are provided in Table 3. The data are presented by location and by analyte concentration. When the compound was not detected, the detection limit was presented as a "less than" value, e.g., <0.01 µg/L.

Groundwater samples are identified by number and depth; for example, HP-1-15' represents a groundwater sample collected from location 1 at a depth of 15 feet bgs.

Table 3. Groundwater Sample Summary

Compound	# of Samples in Which Compound was Detected	Low Concentration (µg/L)	High Concentration (µg/L)	Sample(s) with High Concentration
11 DCE	13	0.3	500	HP-5-15'
11 DCA	2	29	180	HP-5-15'
12 DCE	2	22	37	HP-10-15'
12 DCA	2	430	5300	HP-10-15'
TCA	19	0.3	990	HP-10-15'
TCE	18	0.2	7700	HP-10-15'
PCE	14	0.09	57	HP-19-15'

APPENDIX A Condensed Data

Tracer Research Corp.
1 Deerpark Drive, Suite G
Monmouth Junction, NJ 08852

Client/Site: OGDEN ENVIRONMENTAL / INDUSTRIAL SITE / WINDSOR, NEW YORK
Date: 8/6/99
Analyst: STIVERS
Job Number: 36159-000.S

SAMPLE	11 DCE µg/L	11 DCA µg/L	12 DCE µg/L	12DCA µg/L	TCA µg/L	TCE µg/L
HP-1-15'	<0.1	<2	<0.7	<2	0.3	0.5
HP-2-15'	82	<2	<0.7	<2	380	800
HP-3-15'	12	<32	<15	<43	37	14
HP-4-15'	<3	<32	<15	<43	22	<0.3
HP-5-15'	500	180	22	430	250	2100
HP-6-15'	30	<160	<74	<210	230	700
HP-7-15'	<0.7	<8	<4	<11	0.4	0.9
HP-8-15'	4	<8	<4	<11	0.3	0.2
HP-9-15'	<0.7	<8	<4	<11	<0.02	<0.06
HP-10-15'	840	29	37	5300	990	7700
HP-11-30'	3	<16	<7	<22	3	63
HP-12-15'	<1	<16	<7	<22	1	0.8
HP-13-15'	0.3	<16	<7	<22	10	3
HP-14-15'	2	<16	<7	<22	7	13
HP-15-15'	21	<16	<7	<22	2	53

Tracer Research Corp.
1 Deerpark Drive, Suite G
Monmouth Junction, NJ 08852

Client/Site: OGDEN ENVIRONMENTAL / INDUSTRIAL SI
Date: 8/6/99
Analyst: STIVERS
Job Number: 36159-000.S

SAMPLE	PCE µg/L
HP-1-15'	<0.01
HP-2-15'	0.09
HP-3-15'	17
HP-4-15'	<0.2
HP-5-15'	3
HP-6-15'	3
HP-7-15'	<0.05
HP-8-15'	0.1
HP-9-15'	<0.05
HP-10-15'	56
HP-11-30'	2
HP-12-15'	<0.1
HP-13-15'	<0.1
HP-14-15'	0.3
HP-15-15'	0.6

Tracer Research Corp.
1 Deerpark Drive, Suite G
Monmouth Junction, NJ 08852

Client/Site: OGDEN ENVIRONMENTAL/ INDUSTRIAL SITE/ WINDSOR, NEW YORK
Date: 08/16/99
Analyst: STIVERS
Job Number: 36159-000.S

SAMPLE	11 DCE µg/L	11 DCA µg/L	12 DCE µg/L	12 DCA µg/L	TCA µg/L	TCE µg/L
H2O BLANK	<16	<240	<78	<260	<0.3	<1
AIR BLANK	<0.07	<1	<0.3	<1	<0.001	<0.004
HP-16-15'	<0.2	<2	<0.8	<3	<0.003	<0.01
HP-17-15'	5	<2	<0.8	<3	10	10
HP-18-15'	5	<19	<6	<21	9	7
HP-19-15'	59	<10	<3	<11	130	28
HP-20-15'	<3	<48	<16	<54	140	<0.2
HP-21-30'	<0.7	<10	<3	<11	2	29
AIR BLANK	<0.07	<1	<0.3	<1	<0.001	<0.004

INT = Interference

Tracer Research Corp.
1 Deerpark Drive, Suite G
Monmouth Junction, NJ 08852

Client/Site:	**OGDEN ENVIRONMENTAL/ INDUSTRIAL SI**
Date:	**08/16/99**
Analyst:	**STIVERS**
Job Number:	**36159-000.S**

SAMPLE	PCE µg/L
H2O BLANK	<0.4
AIR BLANK	<0.002
HP-16-15'	<0.004
HP-17-15'	27
HP-18-15'	23
HP-19-15'	57
HP-20-15'	4
HP-21-30'	1
AIR BLANK	<0.002

INT = Interference

Tracer Research Corporation appreciates the opportunity of being of service to your organization. Because we are constantly striving to improve our service to you, we welcome any comments or suggestions you may have about how we can be more responsive to the needs of your organization. If you have any questions regarding the field work, analytical results or this report, please do not hesitate to contact Marj Stivers at 800.303.4523.

APPENDIX C

ENVIRONMENTAL DATA SERVICES, LTD.
DATA USABILITY SUMMARY REPORT (DUSR)

DATA USABILITY SUMMARY REPORT

Avery Dennison

Prepared by

ENVIRONMENTAL DATA SERVICES, LTD.

For

Ogden Environmental and Energy Services

November 3, 1999

Data Assessment Narratives

DATA USABILITY SUMMARY REPORT FOR VOLATILES

SITE: Avery Dennison

LABORATORY: STL - Envirotech

SAMPLE DELIVERY GROUP: N3121

This sample delivery group consists of the following water and trip blank samples:

FIELD ID	DATE SAMPLED	FIELD ID	DATE SAMPLED
GW1-1	4/07/99	GW1-2	4/07/99
GW1-3	4/07/99	GW1-4	4/07/99
GW1-5	4/07/99	GW2-5	4/07/99
GW2-4	4/07/99	GW2-3	4/07/99
GW3-6	4/07/99	GW3-5	4/07/99
GW4-4	4/07/99	GW4-2	4/07/99
GW3-4	4/07/99	GW4-3	4/07/99
Dup-1	4/07/99	TB	4/06/99

Samples described above were analyzed via NYSDEC – ASP/CLP methodologies to determine the concentration of various volatile compounds in water. Tentatively identified compound determinations were requested in association with the volatile analyses.

Volatile samples shipped on 4-08-99 totaled fifteen waters and one trip blank. The shipment receipt date was not documented on the chain of custody.

The analytical reports supplied by STL – Envirotech were reviewed and evaluated against method specified QA/QC criteria. General analytical method execution and compliance were also assessed. The results of the data review process are described in the following data assessment report.

Major Data Quality Issues

None.

Minor Data Quality Issues

None.

Diane Waldschmidt
Environmental Scientist/Director

Date : 11/3/99

HOLDING TIME

The amount of an analyte can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid.

The analyses performed on samples in this sample delivery group were all done within established holding times.

BLANK CONTAMINATION

Quality assurance blanks, method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during preparation or field activity. Method blanks measure lab contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank/Field Blank Contamination

Method blanks were analyzed at the proper frequency. Upon examination, the method blanks did not contain any target analytes at or above the reportable concentration levels.

A field blank was not collected in association with the samples in this delivery group. Field cross contamination could not be evaluated.

Trip Blank Contamination

One trip blank was provided in association with this sample delivery group. No target analytes were found to be present above the reporting limit in the associated trip blank.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

The calibration information provided was reviewed to ensure that the following method requirements were met:

- Five level initial calibrations were performed.
- Daily calibration check standards were analyzed prior to and within twelve hours of all sample analyses.
- Initial and continuing calibration relative response factors, percent relative standard deviation and percent difference values met method tolerance limits

The calibrations were performed at method specified frequencies. Upon examination all calibrations met the criteria described above.

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria is meant to ensure that the GC/MS sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than+/- 30 seconds from the associated continuing calibration standard.

Internal standard recoveries observed in all samples and method blanks were within acceptable limits.

SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

All samples and method blanks evaluated in this report had observed surrogate recoveries within the established limits. However, sample GW1-5 required a dilution which caused the surrogates to be diluted out. Therefore, no surrogate standard evaluation could be performed for the above sample.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate are generated to determine the precision and accuracy of the analytical procedure in a given matrix. MS/MSD determinations were performed at the method specified frequency.

Sample GW1-2 was selected for the matrix spike and matrix spike duplicate determinations.

All percent recoveries and relative percent differences were within acceptable QC limits. No significant matrix interference was apparent. A blank spike containing the matrix spike compounds was analyzed with each twelve hour analytical sequence. All matrix spike compounds were recovered with acceptable accuracy during the blank spike determination.

OTHER QC DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

The field duplicate sample identification was not made known to the validator therefore no review of field precision was performed.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

No data quality issues were found to impact the results reported. All QC criteria appears to be acceptable.

Note: The pH for the samples in this delivery group was not verified. This verification of proper sample preservation is a requirement.

DATA USABILITY SUMMARY REPORT FOR METALS

SITE: Avery Dennison

LABORATORY: STL - Envirotech

REPORT: N3121

This sample delivery group consists of the following water samples:

Sample	Date Collected	Sample	Date Collected
GW1-1	4/07/99	GW1-2	4/07/99
GW1-3	4/07/99	GW1-4	4/07/99
GW1-5	4/07/99	GW2-5	4/07/99
GW2-4	4/07/99	GW2-3	4/07/99
GW3-6	4/07/99	GW3-5	4/07/99
GW4-4	4/07/99	GW4-2	4/07/99
GW3-4	4/07/99	GW4-3	4/07/99
DUP-1	4/07/99		

The samples described above were analyzed for selected metals (cadmium, iron and manganese). The analyses were performed based on methodologies outlined in the NYSDEC-ASP/CLP.

Metals samples shipped on 4-8-99 totaled fifteen waters.

The analytical reports supplied by STL – Envirotech were reviewed and evaluated against method specified QA/QC criteria. General analytical method execution and compliance were also assessed. The results of the data review process are described in the following data assessment report.

Major Data Quality Issues

None.

Minor Data Quality Issues

None.

Diane Waldschmidt Date: 11/3/99
Environmental Scientist/Director

HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid.

All analyses were completed well within acceptable holding times for metals.

BLANK CONTAMINATION

Quality assurance blanks, method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank Contamination

Method blanks were evaluated at the proper frequency and although some contaminants were found to be present at levels above the instrument detection limit, none were observed above the contract required detection limit. Each blank contaminant above the instrument detection limit was reviewed to assess any potential for impact on the corresponding sample value reported. No sample result fell into the effected concentration range as defined method blank in the QC protocol. Therefore the data is within acceptance criteria for metals.

Instrument Blank Contamination

Initial and continuing calibration blanks were evaluated at the proper frequency and although some contaminants were found to be present at levels above the instrument detection limit, none were observed above the contract required detection limit. Each blank contaminant above the instrument detection limit was reviewed to assess any potential for impact on the corresponding sample value reported. No sample result fell into the effected concentration range. Therefore the blank data is within acceptance criteria for metals.

Field or Rinse Blank Contamination

No field blank was collected and analyzed in association with the sample in this delivery group. Field cross contamination could be evaluated.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. The initial calibration curve and its verification demonstrates that the instrument is capable of giving acceptable performance at the beginning of the metals and cyanide analytical sequence. The continuing calibration verification standards provide information as to the continuing stability of the calibration curve.

Initial and Continuing Calibration Verification

All initial and continuing calibration verifications that bracketed metals sample analyses associated with the sample delivery group were performed at the required frequency. Observed percent recovery values for these standards met all acceptance criteria.

MATRIX SPIKE

Metals

A matrix spike determination was performed on sample GW1-2. The percent recoveries for cadmium, iron and manganese were within method specified QC limits.

DUPLICATE

A The duplicate analysis was performed on sample GW1-2. Relative percent difference values between the sample and duplicate analysis were well within acceptable criteria for all target analysis.

LABORATORY CONTROL SAMPLE

The laboratory Control Sample is a quality control sample of known concentration which is processed along with a batch of samples. The percent recovery of the LCS can be used to assess the accuracy of the analytical procedure performed by a specific individual, during a specific time period, and utilizing the same reagents and equipment as those used for sample analyses. The LCS data is independent of sample matrix.

Laboratory control sample standards for metals had observed percent recoveries well within the range required.

FIELD DUPLICATE

No field duplicate sample identification was made known to the validator. Therefore, no review of the field precision was performed.

ICP Serial Dilution

ICP serial dilution analyses were performed at the proper frequency in association with this sample delivery group. The sample chosen for the serial dilution analyses was GW3-3. Observed precision between the diluted and non-diluted sample analyses met method specified acceptance criteria in all cases.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the metals data set evaluated represents fully compliant analytical data. The analytical process used to generate results reported were within quality control limits at all times.

Note: The pH was not documented for the samples in this delivery group. Verification of proper sample preservation is a requirement.

DATA USABILITY SUMMARY REPORT FOR VOLATILES

SITE: Avery Dennison

LABORATORY: STL - Envirotech

SAMPLE DELIVERY GROUP: N3661

This sample delivery group consists of the following waters and trip blank samples:

FIELD ID	DATE SAMPLED	FIELD ID	DATE SAMPLED
GW2-1	4/08/99	GW2-2	4/08/99
GW3-3	4/08/99	GW3-2	4/08/99
GW3-1	4/08/99	DUP2	4/08/99
TB	4/06/99	GW4-1	4/08/99

Samples described above were analyzed via NYSDEC-ASP/CLP methodologies to determine the concentration of various volatile compounds in water. Tentatively identified compound determinations were requested in association with the volatile analyses.

Volatile samples shipped on 4-09-99 totaled seven waters and one trip blank. The shipment receipt date was not documentation on the chain of custody.

The analytical data supplied by STL – Envirotech were reviewed and evaluated against method specified QA/QC criteria. General analytical method execution and compliance were also assessed. The results of the data review process are described in the following data assessment report.

Major Data Quality Issues

None.

Minor Data Quality Issues

None.

Diane Waldschmidt
Environmental Scientist/Director

Date : 11/3/99

HOLDING TIME

The amount of an analyte can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid.

The analyses performed on samples in this sample delivery group were all done within established holding times.

BLANK CONTAMINATION

Quality assurance blanks, method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during preparation or field activity. Method blanks measure lab contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank/Field Blank Contamination

A method blank was analyzed at the proper frequency. Upon examination, the method blank did not contain any target analytes at or above the reportable concentration levels.

No field blank was collected in association with the samples in this delivery group. The assessment of field cross contamination could not be performed.

Trip Blank Contamination

One trip blank was provided in association with this sample delivery group. No target analytes were found to be present above the reporting limit in the associated trip blank.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

The calibration information provided was reviewed to ensure that the following method requirements were met:

- Five level initial calibrations were performed.
- Daily calibration check standards were analyzed prior to and within twelve hours of all sample analyses.
- Initial and continuing calibration relative response factors, percent relative standard deviation and percent difference values met method tolerance limits.

The calibrations were performed at method specified frequencies. Upon examination all calibrations met the criteria described above.

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria is meant to ensure that the GC/MS sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than+/- 30 seconds from the associated continuing calibration standard.

Internal standard responses observed in all samples and method blanks were within acceptable limits.

SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

All samples and method blanks evaluated in this report had observed surrogate recoveries within the method specified limits.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate are generated to determine the precision and accuracy of the analytical procedure in a given matrix. MS/MSD determinations were performed at the method specified frequency.

Sample GW3-3 was selected for the matrix spike and matrix spike duplicate determinations.

All percent recoveries and relative percent differences were within acceptable QC limits. No significant matrix interference was apparent. One blank spikes containing the matrix spike compounds was analyzed with each twelve hour analytical sequence. All matrix spike compounds were recovered with acceptable accuracy during the blank spike determinations.

OTHER QC DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

The field duplicate sample identification was not made known to the validator therefore no review of field precision was performed.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

No data quality issues were found to impact the results reported. All QC criteria appears to be acceptable.

The pH for the samples in this delivery group were not verified on the sample run log. This verification of proper sample preservation is a requirement.

DATA USABILITY SUMMARY REPORT FOR METALS

SITE: Avery Dennison

LABORATORY: STL - Envirotech

REPORT: N3662

This sample delivery group consists of the following water samples:

Sample	Date Collected	Sample	Date Collected
GW2-1	4/08/99	GW2-2	4/08/99
GW3-3	4/08/99	GW3-2	4/08/99
GW3-1	4/08/99	DUP2	4/08/99
GW4-1	4/08/99		

The samples described above were analyzed for selected metals cadmium, iron and manganese. The analyses were performed based on methodologies outlined in the NYSDEC-ASP/CLP.

Metals samples shipped on 4-9-99 totaled seven waters.

The analytical reports supplied by STL – Envirotech were reviewed and evaluated against method specified QA/QC criteria. General analytical method execution and compliance were also assessed. The results of the data review process are described in the following data assessment report.

Major Data Quality Issues

None.

Minor Data Quality Issues

None.

Diane Waldschmidt
Environmental Scientist/Director

Date: 11/3/99

HOLDING TIME

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid.

All analyses were completed well within acceptable holding times for metals.

BLANK CONTAMINATION

Quality assurance blanks, method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank Contamination

Method blanks were evaluated at the proper frequency and no contaminants were found to be present at levels above the instrument detection limit. Therefore the data is within acceptance criteria for metals.

Instrument Blank Contamination

Initial and continuing calibration blanks were evaluated at the proper frequency and no contaminants were found to be present at levels above the instrument detection limit. Therefore the blank data is within acceptance criteria for metals.

Field or Rinse Blank Contamination

No field blank was collected and analyzed in association with the sample in this delivery group. Therefore, field cross contamination could not be evaluated.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. The initial calibration curve and its verification demonstrates that the instrument is capable of giving acceptable performance at the beginning of the metals and cyanide analytical sequence. The continuing calibration verification standards provide information as to the continuing stability of the calibration curve.

Initial and Continuing Calibration Verification

All initial and continuing calibration verifications that bracketed metals sample analyses associated with the sample delivery group were performed at the required frequency. Upon examination, all standard percent recoveries were within the established criteria.

MATRIX SPIKE

Metals

A matrix spike determination was performed on sample GW3-3. All percent recoveries for cadmium, iron and manganese were with acceptable QC limits.

DUPLICATE

Sample GW3-3 was selected to be analyzed in duplicate. All relative percent difference values were within the allowable limit.

LABORATORY CONTROL SAMPLE

The laboratory Control Sample is a quality control sample of known concentration which is processed along with a batch of samples. The percent recovery of the LCS can be used to assess the accuracy of the analytical procedure performed by a specific individual, during a specific time period, and utilizing the same reagents and equipment as those used for sample analyses. The LCS data is independent of sample matrix.

Laboratory control sample standards for metals had observed percent recoveries well within the range required.

FIELD DUPLICATE

No field duplicate sample identification was made known to the validator. Therefore, no review of the field precision was performed.

ICP Serial Dilution

ICP serial dilution analyses were performed at the proper frequency in association with this sample delivery group. The sample chosen for the serial dilution analyses was GW3-3. Observed precision between the diluted and non-diluted sample analyses met method specific acceptance criteria in all cases.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Overall, the metals data set evaluated represents fully compliant analytical data. The analytical process used to generate results reported were within quality control limits at all times.

Note: The pH was not documented for the samples in this delivery group. Verification of proper sample preservation is a requirement.

DATA USABILITY SUMMARY REPORT FOR VOLATILES

SITE: Avery Dennison

LABORATORY: STL Envirotech

SAMPLE DELIVERY GROUP: S1351

This sample delivery group consists of the following water and trip blank samples:

FIELD ID	DATE SAMPLED	FIELD ID	DATE SAMPLED
Trip Blank	8/02/99	CS-1S	8/03/99
CS-2S	8/04/99	CS-DUP	8/04/99
CS-3S	8/04/99		

Samples described above were analyzed via NYSDEC ASP/CLP methodologies to determine the concentration of various volatile compounds in water. Tentatively identified compound determinations were requested in association with the volatile analyses.

Volatile samples shipped on 8/05/99 totaled four waters and one trip blank. The date samples were received by the laboratory was not documented on the chain of custody. However, the internal custody record indicated 8/05/99 as the received date.

The analytical reports supplied by STL Envirotech were reviewed and evaluated against method specified QA/QC criteria. General analytical method execution and compliance were also assessed. The results of the data review process are described in the following data assessment report.

Major Data Quality Issues

None.

Minor Data Quality Issues

One method blank contained an observed acetone concentration above the reportable detection limit. This suggests a potential for artificial acetone contamination in associated samples that have acetone values at less that ten times the blank concentration.

Date : 11/3/99

Diane Waldschmidt
Environmental Scientist/Director

HOLDING TIME

The amount of an analyte can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded the data may not be valid.

The analyses performed on samples in this sample delivery group were all done within established holding times.

BLANK CONTAMINATION

Quality assurance blanks, method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during preparation or field activity. Method blanks measure lab contamination. Trip blanks measure cross contamination during shipment. Field and rinse blanks measure cross contamination during field operations.

Method Blank/Field Blank Contamination

A method blank was analyzed at the proper frequency. Upon examination, the method blank did not contain any target analytes at or above the reportable concentration levels with one exception.

Method blank VBLKDV224B contained acetone at 8.1 ppb. The following samples were associated with the above method blank.

Trip Blank	CS-2S	CS-Dup
CS-1S	CS-3S	

CS-1S and CS-3S have observed values for acetone at less than ten times the concentration found in the blank. This suggests a potential for artificial acetone contamination that may contribute to the effected samples acetone results.

No field blank was collected in association with the samples in this delivery group. Therefore, field cross contamination could not be evaluated.

Trip Blank Contamination

One trip blank was provided in association with this sample delivery group. No target analytes were found to be present above the reporting limit in the associated trip blank.

MASS SPECTROMETER TUNING

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds, and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances.

The tuning standard for volatiles is bromofluorobenzene (BFB).

All tunes associated with this SDG were fully compliant.

CALIBRATION

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative results. The initial calibration curve demonstrates that the instrument is capable of giving acceptable performance at the beginning of an analytical sequence. The continuing calibration verifies that the instrument is giving satisfactory daily performance.

The calibration information provided was reviewed to ensure that the following method requirements were met:

- Five level initial calibrations were performed
- Daily calibration check standards were analyzed prior to and within twelve hours of all sample analyses
- Initial and continuing calibration relative response factors, percent relative standard deviation and percent difference values net method tolerance limits

The calibrations were performed at method specified frequencies. Upon examination all calibrations met the criteria described above.

INTERNAL STANDARDS PERFORMANCE

Internal standard performance criteria is meant to ensure that the GC/MS sensitivity and response are stable during every experimental run.

The internal standard area count must not vary by more than a factor of two from the associated continuing calibration standard. The retention time of the internal standard must not vary by more than+/- 30 seconds from the associated continuing calibration standard.

Internal standard responses observed in all samples and method blanks were within acceptable limits.

SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation and analyses to evaluate overall laboratory performance and efficiency of the analytical technique.

All samples and method blanks evaluated in this report had observed surrogate recoveries within the method specified limits. Please note, samples CS-2 and CS-Dup had surrogates diluted out. Therefore, no surrogate evaluation could be performed for the above samples.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

The matrix spike and matrix spike duplicate are generated to determine the precision and accuracy of the analytical procedure in a given matrix. MS/MSD determinations were performed at the method specified frequency.

Sample CS-3S was selected for the matrix spike and matrix spike duplicate determinations.

All percent recoveries were within acceptable QC limits. The matrix spike and matrix spike duplicate relative percent difference values were slightly above the establish QC limits. However, no significant matrix interference was apparent.

One blank spike containing the matrix spike compounds was analyzed with each twelve hour analytical sequence. All matrix spike compounds were recovered with acceptable accuracy during the blank spike determination.

OTHER QC DATA OUT OF SPECIFICATION

None.

FIELD DUPLICATE

The field duplicate sample identification was not made known to the validator therefore no review of field precision was performed.

SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

Method blank contamination and MS/MSD relative percent difference exceedences were observed during data assessment. All remaining QC criteria appeared to be acceptable.

Note: The pH for the samples in this delivery group were not document on the sample run log. This verification of proper sample preservation is a requirement.

APPENDIX D

ENVIRONMENTAL DATA RESOURCES, INC. REGULATORY DATABASE SEARCH REPORT

The EDR-Radius Map
with GeoCheck®

15 Ruscitti Road
15 - 21 Ruscitti Road
New Windsor, NY 12553

Inquiry Number: 0421089.1r

October 11, 1999

Environmental Data Resources, Inc.
an edr company

The Source For Environmental Risk Management Data

3530 Post Road
Southport, Connecticut 06490

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc. (EDR). The report meets the government records search requirements of ASTM Standard Practice for Environmental Site Assessments, E 1527-97. Search distances are per ASTM standard or custom distances requested by the user.

The address of the subject property for which the search was intended is:

15 - 21 RUSCITTI ROAD
NEW WINDSOR, NY 12553

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the subject property or within the ASTM E 1527-97 search radius around the subject property for the following Databases:

NPL:	National Priority List
Delisted NPL:	NPL Deletions
RCRIS-TSD:	Resource Conservation and Recovery Information System
CERCLIS:	Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP:	Comprehensive Environmental Response, Compensation, and Liability Information System
CORRACTS:	Corrective Action Report
SWF/LF:	Facility Register
AST:	Petroleum Bulk Storage (AST)
RAATS:	RCRA Administrative Action Tracking System
HMIRS:	Hazardous Materials Information Reporting System
PADS:	PCB Activity Database System
ERNS:	Emergency Response Notification System
FINDS:	Facility Index System/Facility Identification Initiative Program Summary Report
TRIS:	Toxic Chemical Release Inventory System
NPL Lien:	NPL Liens
TSCA:	Toxic Substances Control Act
MLTS:	Material Licensing Tracking System
NY Spills:	NY Spills
CBS UST:	Chemical Bulk Storage (CBS) Database
MOSF UST:	Major Oil Storage Facilities Database
MOSF AST:	Major Oil Storage Facilities Database
HSWDS:	Hazardous Substance Waste Disposal Site Inventory
VCP:	Voluntary Cleanup Agreement
ROD:	ROD
CONSENT:	Superfund (CERCLA) Consent Decrees
Coal Gas:	Former Manufactured gas (Coal Gas) Sites.
MINES:	Mines Master Index File

Unmapped (orphan) sites are not considered in the foregoing analysis.

Search Results:

Search results for the subject property and the search radius, are listed below:

Subject Property:

The subject property was not listed in any of the databases searched by EDR.

EXECUTIVE SUMMARY

Surrounding Properties:

Elevations have been determined from the USGS 1 degree Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. EDR's definition of a site with an elevation equal to the subject property includes a tolerance of -10 feet. Sites with an elevation equal to or higher than the subject property have been differentiated below from sites with an elevation lower than the subject property (by more than 10 feet). Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Conservation's Inactive Hazardous waste Disposal Sites in New York State.

A review of the SHWS list, as provided by EDR, has revealed that there is 1 SHWS site within approximately 1 mile of the subject property.

Lower Elevation	Address	Dist / Dir	Map ID	Page
AMERICAN FELT AND FILTER CORP.	WALSH AVENUE	1/4 - 1/2NE	14	40

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Conservation's Spills Information Database.

A review of the LUST list, as provided by EDR, and dated 04/01/1999 has revealed that there are 5 LUST sites within approximately 0.5 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
TRIANGLE PAC	55 WINDSOR	1/8 - 1/4NW	A2	11
KAISER BINDING	MACARTHUR / WALNUT AV	1/8 - 1/4SSE	10	37
Not reported	111 WINDSOR HWY	1/4 - 1/2SW	11	38
BEARSE MANUFACTURING CO INC	***230 MACARTHUR AVE***	***1/4 - 1/2S***	***C12***	***38***
DEARSE MFR.	230 MACARTHUR AVE	1/4 - 1/2S	C13	39

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Conservation's Petroleum Bulk Storage (PBS) Database

A review of the UST list, as provided by EDR, and dated 07/01/1999 has revealed that there are 7 UST sites within approximately 0.25 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FRYE COPYSYSTEMS INC	***71 WINDSOR HWY***	***0 - 1/8 WNW***	***1***	***9***
TRIANGLE PACIFIC CORP	55 WINDSOR HWY P.O.BOX	1/8 - 1/4NW	A3	12
ARGENIO BROTHERS,INC	PO BOX 2068	1/8 - 1/4WNW	B4	13
ORANGE CNTY REHAB CNTR-OCCUPAT	67 WINDSOR HIGHWAY ROUT	1/8 - 1/4W	5	18
PLAZA MATERIALS CONCRETE PLANT	***RUSCITTI RD***	***1/8 - 1/4WNW***	***B6***	***19***
C.J.BUILDING/ROYAL POOLS	73 WINDSOR HWY	1/8 - 1/4WNW	B8	27
KAISER BINDING INC.	***MAC ARTHUR & WALNUT AVE***	***1/8 - 1/4SSE***	***9***	***29***

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-SQG list, as provided by EDR, and dated 07/01/1999 has revealed that there is 1 RCRIS-SQG site within approximately 0.25 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
FRYE COPYSYSTEMS INC	*71 WINDSOR HWY*	*0 - 1/8 WNW*	*1*	*9*

RCRIS: The Resource Conservation and Recovery Act database includes selected information on sites that generate, store, treat, or dispose of hazardous waste as defined by the Act. The source of this database is the U.S. EPA.

A review of the RCRIS-LQG list, as provided by EDR, and dated 07/01/1999 has revealed that there is 1 RCRIS-LQG site within approximately 0.25 miles of the subject property.

Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
ARKEL MOTORS INC	*70 WINDSOR HWY*	*1/8 - 1/4 WNW*	*B7*	*27*

CBS AST: Chemical Bulk Storage Database. Registration data collected as required by 6 NYCRR Part 596. It includes facilities storing hazardous substances listed in 6 NYCRR Part 597, in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size. Includes facilities registered (and closed) since effective date of CBS regulations (July 15, 1988) through the date request is processed.

A review of the CBS AST list, as provided by EDR, and dated 04/01/1999 has revealed that there is 1 CBS AST site within approximately 0.25 miles of the subject property.

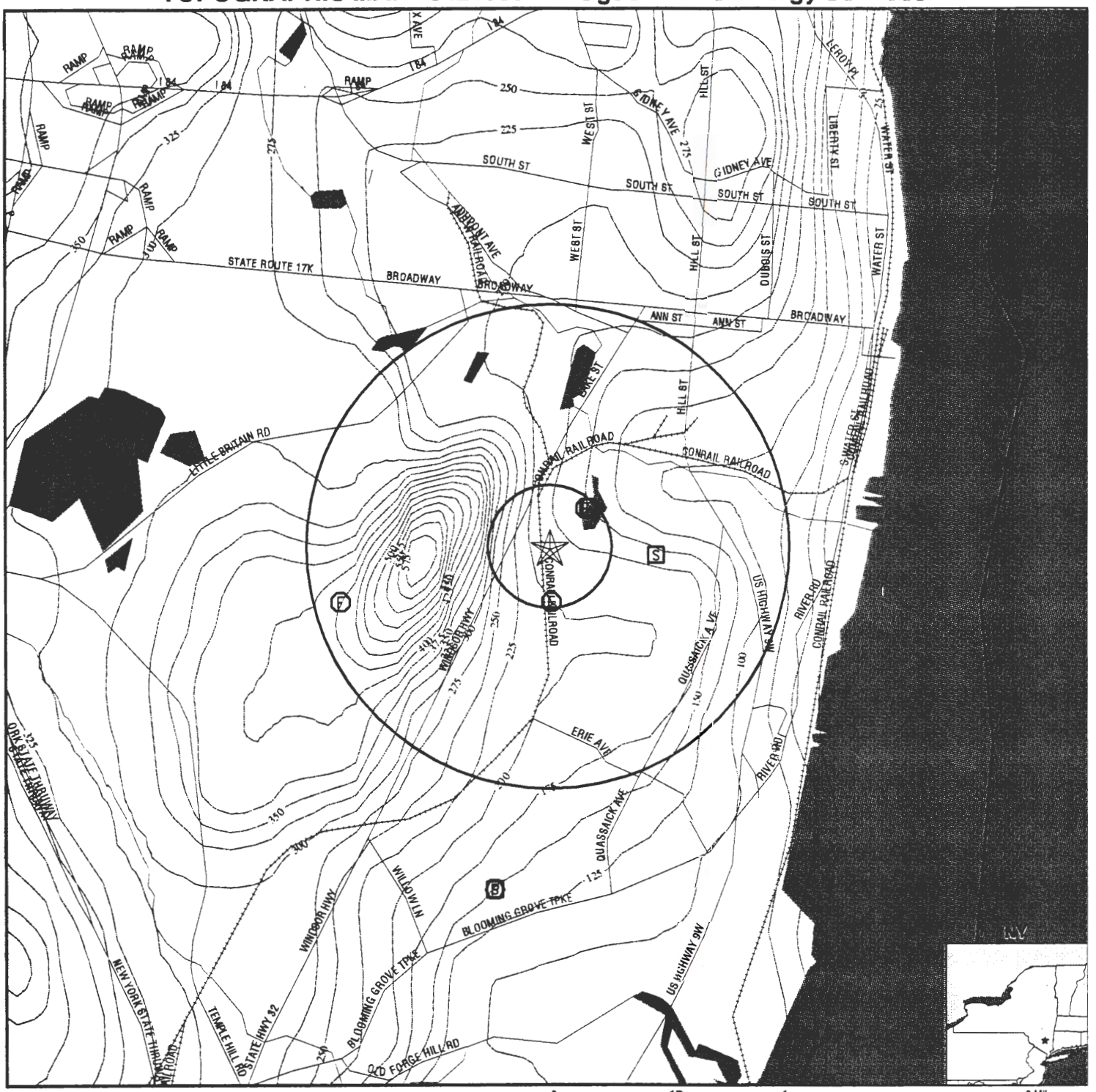
Equal/Higher Elevation	Address	Dist / Dir	Map ID	Page
KAISER BINDING INC.	*MAC ARTHUR & WALNUT AVE*	*1/8 - 1/4 SSE*	*9*	*29*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

Site Name	Database(s)
F & T DARRIGO	SHWS
CONSOLIDATED IRON & METAL	CERCLIS,FINDS
WEST CARGO AREA	LUST,NY Spills
BIG SAVER S/S	LUST
FURNITURE OPTIONS	LUST
BIG SAVER	LUST
HIGHWAY GARAGE	LUST
PLAZA MATERIALS CORP	RCRIS-SQG,LUST
N. WINDSOR STP	LUST
LAFAYETTE PAPER CO	LUST,NY Spills
SQUIRE VILLAGE CONDO'S	LUST
BIG SAVER	UST
BELCHER	UST
UNITED PARCEL SERVICE	UST,AST
BLUE CHIP GOLF	UST
NEW WINDSOR WATER DEPARTMENT	UST
W J L CLEANERS	RCRIS-SQG,FINDS
NYSDOT BIN 1007260	RCRIS-SQG,FINDS
MAGNETIC CORE	RCRIS-SQG,FINDS,NY Spills
ULTRA GLASS	RCRIS-SQG,FINDS
1500 ORRS MILLS ROAD	ERNS
IN WOODS OFF ROAD	NY Spills
ON ROAD	NY Spills
RIVER ROAD SOIL BURNING	NY Spills
RIVER ROAD	NY Spills
NEWBURGH LANDFILL	HSWDS,NY Spills

TOPOGRAPHIC MAP - 0421089.1r - Ogden Env & Energy Services



- Major Roads
- Contour Lines
- Waterways
- Earthquake epicenter, Richter 5 or greater
- Closest Federal Well in quadrant
- Closest State Well in quadrant
- Closest Public Water Supply Well
- Closest Hydrogeological Data

TARGET PROPERTY:	15 Ruscitti Road	CUSTOMER:	Ogden Env & Energy Services
ADDRESS:	15 - 21 Ruscitti Road	CONTACT:	Kathy Hale
CITY/STATE/ZIP:	New Windsor NY 12553	INQUIRY #:	0421089.1r
LAT/LONG:	41.4866 / 74.0334	DATE:	October 11, 1999 6:25 pm

GEOCHECK VERSION 2.1
SUMMARY

TARGET PROPERTY COORDINATES

Latitude (North):	41.486599 - 41° 29' 11.8"
Longitude (West):	74.033401 - 74° 2' 0.2"
Universal Transverse Mercator:	Zone 18
UTM X (Meters):	580694.4
UTM Y (Meters):	4593015.0

USGS TOPOGRAPHIC MAP ASSOCIATED WITH THIS SITE

Target Property:	2441074-D1 CORNWALL, NY

GEOLOGIC AGE IDENTIFICATION†

Geologic Code:	O2
Era:	Paleozoic
System:	Ordovician
Series:	Middle Ordovician (Mohawkian)

ROCK STRATIGRAPHIC UNIT†

Category:	Stratified Sequence

GROUNDWATER FLOW INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, including well data collected on nearby properties, regional groundwater flow information (from deep aquifers), or surface topography.‡

AQUIFLOW™•• Search Radius: 2.000 Miles. The following table shows sites where groundwater flow and depth information was reported. Additional AQUIFLOW™ site information may be available in the GeoCheck® section at the end of this report.

MAP ID	DISTANCE FROM TP	DIRECTION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported			

General Topographic Gradient at Target Property: General East

General Hydrogeologic Gradient at Target Property: The hydrogeologic gradient for this report has been determined using the depth to water table information provided below. Where available, the closest well in each quadrant has been identified (up to a radius of 5 miles around the target property) and used in the gradient calculation. While an attempt has been made to segregate shallow from deep aquifers, this cannot always be assured. Groundwater flow in the aquifer associated with the wells appears generally to be to the ENE.

† Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec. Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map. USGS Digital Data Series DDS - 11 (1994)
‡ U.S. EPA Ground Water Handbook, Vol I: Ground Water and Contamination. Office of Research and development EPA/625/6-90/016a Chapter 4, page 78, September 1990
•• EDR AQUIFLOW™ information System of hydrogeologically determined groundwater flow directions at specific locations. See the date pages at the end of this report for a complete description

GEOCHECK VERSION 2.1
SUMMARY

Site-Specific Hydrogeological Data*:
Search Radius: 2.0 miles
Status: Not found

FEDERAL DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP	LITHOLOGY	DEPTH TO WATER TABLE
Northern	1/8 - 1/4 Mile	Not Reported	7 ft.
Eastern	1/8 - 1/4 Mile	Sand and gravel	1 ft.
Southern	1/8 - 1/4 Mile	Limestone	Not Reported
Western	1/2 - 1 Mile	Limestone	38 ft.

STATE DATABASE WELL INFORMATION

WELL QUADRANT	DISTANCE FROM TP
Northern	>2 Miles
Eastern	1/4 - 1/2 Mile
Southern	1 - 2 Miles
Western	1 - 2 Miles

PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.
NOTE: PWS System location is not always the same as well location.

PWS Name: NEW WINDSOR CONSOLIDATED WD
233 RILEY RD.
NEW WINDSOR, NY 12553
Location Relative to TP: 1 - 2 Miles South
PWS currently has or has had major violation(s) or enforcement: No

AREA RADON INFORMATION

State Radon Information for NEW WINDSOR:

Number of sites tested: 56

Average (pCi/L)	Geometric Mean (pCi/L)	Geometric Std Dev.	Maximum (pCi/L)	% Homes >4 pCi/L	% Homes >20 pCi/L
4.1	2.2	3.5	31.0	31.7	3.9

EPA Radon Zone for ORANGE County: 1

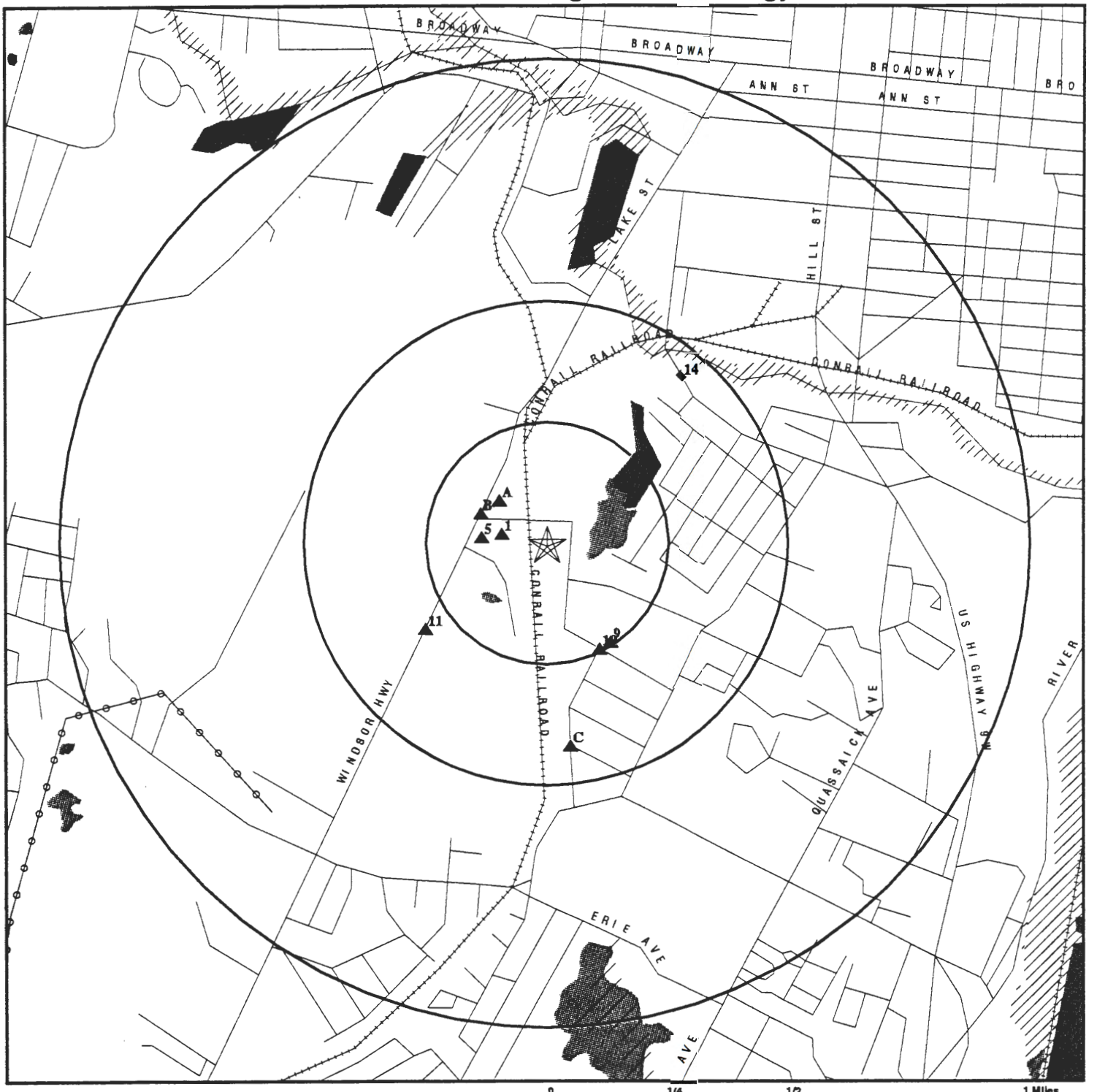
Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

ORANGE COUNTY, NY

Number of sites tested: 268

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area	1.270 pCi/L	91%	8%	1%
Basement	2.370 pCi/L	73%	26%	2%

OVERVIEW MAP - 0421089.1r - Ogden Env & Energy Services



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- Coal Gasification Sites (if requested)
- National Priority List Sites
- Landfill Sites
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- Wetlands per National Wetlands Inventory (1994)

N

TARGET PROPERTY:	15 Ruscitti Road	CUSTOMER:	Ogden Env & Energy Services
ADDRESS:	15 - 21 Ruscitti Road	CONTACT:	Kathy Hale
CITY/STATE/ZIP:	New Windsor NY 12553	INQUIRY #:	0421089.1r
LAT/LONG:	41.4866 / 74.0334	DATE:	October 11, 1999 6:19 pm

DETAIL MAP - 0421089.1r - Ogden Env & Energy Services

★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Coal Gasification Sites (if requested)

Sensitive Receptors

National Priority List Sites

Landfill Sites

Power transmission lines

Oil & Gas pipelines

100-year flood zone

500-year flood zone

Wetlands per National Wetlands Inventory (1994)

TARGET PROPERTY:	15 Ruscitti Road	CUSTOMER:	Ogden Env & Energy Services
ADDRESS:	15 - 21 Ruscitti Road	CONTACT:	Kathy Hale
CITY/STATE/ZIP:	New Windsor NY 12553	INQUIRY #:	0421089.1r
LAT/LONG:	41.4866 / 74.0334	DATE:	October 11, 1999 6:22 pm

MAP FINDINGS SUMMARY SHOWING ALL SITES

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	1	0	NR	1
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	3	NR	NR	5
UST		0.250	1	6	NR	NR	NR	7
AST		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	1	NR	NR	NR	1
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
NY Spills		TP	NR	NR	NR	NR	NR	0
CBS UST		0.250	0	0	NR	NR	NR	0
CBS AST		0.250	0	1	NR	NR	NR	1
MOSF UST		0.500	0	0	0	NR	NR	0
MOSF AST		0.500	0	0	0	NR	NR	0
HSWDS		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	0	NR	0
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

MAP FINDINGS SUMMARY SHOWING
ONLY SITES HIGHER THAN OR THE SAME ELEVATION AS TP

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
RCRIS-TSD		0.500	0	0	0	NR	NR	0
State Haz. Waste		1.000	0	0	0	0	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.250	0	0	NR	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
LUST		0.500	0	2	3	NR	NR	5
UST		0.250	1	6	NR	NR	NR	7
AST		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
RCRIS Sm. Quan. Gen.		0.250	1	0	NR	NR	NR	1
RCRIS Lg. Quan. Gen.		0.250	0	1	NR	NR	NR	1
HMIRS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
ERNS		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
NPL Liens		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
NY Spills		TP	NR	NR	NR	NR	NR	0
CBS UST		0.250	0	0	NR	NR	NR	0
CBS AST		0.250	0	1	NR	NR	NR	1
MOSF UST		0.500	0	0	0	NR	NR	0
MOSF AST		0.500	0	0	0	NR	NR	0
HSWDS		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
ROD		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
Coal Gas		1.000	0	0	0	0	NR	0
MINES		0.250	0	0	NR	NR	NR	0

TP = Target Property

NR = Not Requested at this Search Distance

* Sites may be listed in more than one database

Coal Gas Site Search: No site was found in a search of Real Property Scan's ENVIROHAZ database.

1
WNW
< 1/8
505
Higher

FRYE COPYSYSTEMS INC
71 WINDSOR HWY
NEWBURGH, NY 12550

RCRIS-SQG **1000196072**
FINDS **NYD070962659**
UST
AST

RCRIS:
Owner: WHEELABRATOR-FRYE INC
(212) 555-1212

Contact: CARLOS M JARAMILLO
(914) 561-6040

Record Date: 08/15/1980

Classification: Small Quantity Generator

Used Oil Recyc: No

Violation Status: No violations found

NY MANIFEST
Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

FINDS:
Other Pertinent Environmental Activity Identified at Site:
AIRS Facility System (AIRS/AFS)

PBS UST:

PBS Number:	3-012513	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3311	Telephone:	(914) 561-6040
Operator:	FRYE COPYSYSTEMS INC		
Emergency Contact:	CARLOS JARAMILLO, (914) 895-3905		
Total Tanks:	1		
Owner:	FRYE COPYSYSTEMS INC 6129 WILLOWMERE DES MOINES, IA 50321 (515) 246-2300		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	FRYE COPYSYSTEMS INC 6129 WILLOWMERE DES MOINES, IA 50321 (515) 246-2300 ATTN: VICE PRESIDENT/FINANCE		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	5000		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	12/61
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed Before April 1, 1991		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		

FRYE COPYSYSTEMS INC (Continued) **1000196072**

Leak Detection:	NONE		
Overfill Prot:	Product Level Gauge	Dispenser:	Suction
Date Tested:	10/87	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	HUNTER
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	10000	Renewal Date:	05/28/96
Tank Screen:	No data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	07/23/96
Old PBS Number:	Not reported	Expiration Date:	09/02/01
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	UTILITY		

PBS AST:

PBS Number:	3-012513		
SPDES Number:	Not reported	SWIS Code:	3311
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	UTILITY		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Owner:	FRYE COPYSYSTEMS INC 6129 WILLOWMERE DES MOINES, IA 50321		
Owner Phone:	(515) 246-2300		
Facility Phone:	(914) 561-6040		
Operator:	FRYE COPYSYSTEMS INC		
Emergency Name:	CARLOS JARAMILLO		
Emergency Phone:	(914) 895-3905		
Total Tanks:	1		
Total Capacity:	Not reported		
Tank ID:	2		
Tank Status:	In Service		
Capacity (Gal):	10000		
Tank Error Status:	No data missing		
Tank Location:	ABOVEGROUND		
Product Stored:	NOS 1,2, OR 4 FUEL OIL		
Tank Type:	Steel/carbon steel		
Install Date:	12/76		
Tank Internal:	NONE		
Tank External:	NONE/PAINTED/ASPHALT COATING		
Tank Containment:	NONE/NONE		
Pipe Type:	GALVANIZED STEEL		
Pipe Location:	Above/Underground Combination		
Pipe Internal:	NONE		
Pipe External:	NONE/WRAPPED [PIPING]		
Leak Detection:	NONE/NONE		
Overfill Protection:	Product Level Gauge		
Dispenser Method:	Suction		
Date Tested:	/	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported
Updated:	False	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported

FRYE COPYSYSTEMS INC (Continued) **1000196072**

Result of Inspection: Not reported
Mailing Name: FRYE COPYSYSTEMS INC
Mailing Address: 6129 WILLOWMERE
DES MOINES, IA 50321
Mailing Contact: VICE PRESIDENT/FINANCE
Mailing Telephone: (515) 246-2300
Owner Mark: First Owner
Certification Flag: False
Renew Flag: False
Lat/Long: Not reported
Dead Letter: False
Facility Screen: No data missing
Owner Screen: No data missing
Tank Screen: No data missing
Fiscal Amount for Registration Fee is Correct: True
Expiration Date: 09/02/01
Certification Date: 07/23/96
Renew Date: 05/28/96

A2 NW 1/8-1/4 704 Higher **TRIANGLE PAC** **LUST** **S100346583**
55 WINDSOR **N/A**
NEWBURGH, NY

LUST:
Spill Number: 8706125
Facility Contact: Not reported
Investigator: OKESSON
Caller Name: Not reported
Caller Phone: Not reported
Notifier Name: Not reported
Notifier Phone: Not reported
Spiller Contact: Not reported
Spiller: Not reported
Spiller Address: Not reported
Spill Class: Possible release with minimal potential for fire or hazard or Known release with no damage. DEC Response. Willing Responsible Party. Corrective action taken.
Spill Closed Dt: 11/02/1987
Spill Cause: Tank Test Failure
Water Affected: Not reported
Spill Notifier: Tank Tester
Spill Date: 10/20/1987 19:00
Cleanup Ceased: 11/02/1987
Last Inspection: Not reported
Cleanup Meets Standard: True
Recommended Penalty: No Penalty
Spiller Cleanup Date: Not reported
Enforcement Date: Not reported
Investigation Complete: Not reported
UST Involvement: True
Spill Record Last Update: 02/07/1989
Is Updated: False
Corrective Action Plan Submitted: Not reported
Date Spill Entered In Computer Data File: 11/02/1987
Date Region Sent Summary to Central Office: Not reported
DEC Remarks: / / : RETEST GOOD-NFA.
Spill Cause: TANK REMOVED.
Region of Spill: 3
Facility Tele: Not reported
SWIS: 33
Caller Agency: Not reported
Caller Extension: Not reported
Notifier Agency: Not reported
Notifier Extension: Not reported
Spiller Phone: (562) 535-
Resource Affected: Groundwater
Spill Source: Other Commercial/Industrial
PBS Number: 3-410942
Reported to Dept: 10/20/1987 09:56

A3 NW 1/8-1/4 704 Higher — **TRIANGLE PACIFIC CORP**, **55 WINDSOR HWY P.O.BOX 4265**, **NEW WINDSOR, NY 12550** — **UST** — **U000380560** / **N/A**

PBS UST:

PBS Number:	3-410942	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-5355
Operator:	TRIANGLE PACIFIC		
Emergency Contact:	TRIANGLE PACIFIC-SCOTT WRIGHT, (800) 527-5903		
Total Tanks:	1		
Owner:	TRIANGLE PACIFIC CORP 55 WINDSOR HIGHWAY:PO.BOX 4265 NEW WINDSOR, NY 12550 (914) 562-5355		
Owner Type:	Not reported	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	TRIANGLE PACIFIC CORP 55 WINDSOR HIGHWAY:PO.BOX 4265 NEW WINDSOR, NY 12550 (914) 562-5355 Not Reported		
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.		
Capacity (gals):	5000		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	01/67
Product Stored:	DIESEL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed Before April 1, 1991		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	1000	Renewal Date:	01/25/93
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	01/07/88
Old PBS Number:	Not reported	Expiration Date:	01/07/93
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		

PBS Number:	3-410942	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-5355
Operator:	TRIANGLE PACIFIC		
Emergency Contact:	TRIANGLE PACIFIC-SCOTT WRIGHT, (800) 527-5903		

TRIANGLE PACIFIC CORP (Continued) **U000380560**

Total Tanks:	1		
Owner:	TRIANGLE PACIFIC CORP 55 WINDSOR HIGHWAY;PO.BOX 4265 NEW WINDSOR, NY 12550 (914) 562-5355		
Owner Type:	Not reported	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	TRIANGLE PACIFIC CORP 55 WINDSOR HIGHWAY;PO.BOX 4265 NEW WINDSOR, NY 12550 (914) 562-5355		
	Not Reported		
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.		
Capacity (gals):	1000		
Tank Location:	UNDERGROUND		
Tank ID:	2	Install Date:	01/67
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Tank Status:	In Service		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	1000	Renewal Date:	01/25/93
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	01/07/88
Old PBS Number:	Not reported	Expiration Date:	01/07/93
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		

B4 WNW 1/8-1/4 710 Higher **ARGENIO BROTHERS,INC** **UST** **U000379820**
PO BOX 2068 **N/A**
NEWBURGH, NY 12550

PBS UST:

PBS Number:	3-171298	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-5102
Operator:	VARIES		
Emergency Contact:	GENARD ARGENIO, (914) 565-2007		
Total Tanks:	2		
Owner:	ARGENIO BROS. INC. PO BOX 2068 NEWBURGH, NY 12550 (914) 561-5102		

ARGENIO BROTHERS,INC (Continued) **U000379820**

Owner Type:	Corporate/Commercial	Owner Mark:	Second Owner
Owner Subtype:	Not reported		
Mailing Address:	ARGENIO BROS. INC. 2 ARGENIO DR. P.O. BOX 2068 NEWBURGH, NY 12550 (914) 561-5102 ATTN: JEANETTE B.SMITH		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	10000		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	00/00
Product Stored:	LEADED GASOLINE	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed Before April 1, 1991		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	OTHER		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	16000	Renewal Date:	07/21/92
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/03/97
Old PBS Number:	Not reported	Expiration Date:	03/03/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	TRUCKING/TRANSPORTATION		
PBS Number:	3-171298	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-5102
Operator:	VARIES		
Emergency Contact:	GENARD ARGENIO, (914) 565-2007		
Total Tanks:	2		
Owner:	ARGENIO BROS. INC. PO BOX 2068 NEWBURGH, NY 12550 (914) 561-5102		
Owner Type:	Corporate/Commercial	Owner Mark:	Second Owner
Owner Subtype:	Not reported		
Mailing Address:	ARGENIO BROS. INC. 2 ARGENIO DR. P.O. BOX 2068 NEWBURGH, NY 12550 (914) 561-5102 ATTN: JEANETTE B.SMITH		

ARGENIO BROTHERS,INC (Continued) **U000379820**

Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	6000		
Tank Location:	UNDERGROUND		
Tank ID:	2	Install Date:	00/00
Product Stored:	DIESEL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed-Removed		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	OTHER		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	04/93	Next Test Date:	Not reported
Date Closed:	02/97	Test Method:	PETRO-TITE
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	16000	Renewal Date:	07/21/92
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/03/97
Old PBS Number:	Not reported	Expiration Date:	03/03/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	TRUCKING/TRANSPORTATION		
PBS Number:	3-171298	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-5102
Operator:	VARIES		
Emergency Contact:	GENARD ARGENIO, (914) 565-2007		
Total Tanks:	2		
Owner:	ARGENIO BROS. INC. PO BOX 2068 NEWBURGH, NY 12550 (914) 561-5102		
Owner Type:	Corporate/Commercial	Owner Mark:	Second Owner
Owner Subtype:	Not reported		
Mailing Address:	ARGENIO BROS. INC. 2 ARGENIO DR. P.O. BOX 2068 NEWBURGH, NY 12550 (914) 561-5102 ATTN: JEANETTE B.SMITH		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	3	Install Date:	00/00
Product Stored:	UNLEADED GASOLINE	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		

ARGENIO BROTHERS,INC (Continued) **U000379820**

Tank Status:	Closed-Removed		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	OTHER		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	04/93	Next Test Date:	Not reported
Date Closed:	02/97	Test Method:	PETRO-TITE
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	16000	Renewal Date:	07/21/92
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/03/97
Old PBS Number:	Not reported	Expiration Date:	03/03/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	TRUCKING/TRANSPORTATION		
PBS Number:	3-171298	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-5102
Operator:	VARIES		
Emergency Contact:	GENARD ARGENIO, (914) 565-2007		
Total Tanks:	2		
Owner:	ARGENIO BROS. INC. PO BOX 2068 NEWBURGH, NY 12550 (914) 561-5102		
Owner Type:	Corporate/Commercial	Owner Mark:	Second Owner
Owner Subtype:	Not reported		
Mailing Address:	ARGENIO BROS. INC. 2 ARGENIO DR. P.O. BOX 2068 NEWBURGH, NY 12550 (914) 561-5102 ATTN: JEANETTE B.SMITH		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	10000		
Tank Location:	UNDERGROUND		
Tank ID:	4	Install Date:	03/97
Product Stored:	DIESEL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	OTHER
Pipe Location:	Underground	Pipe Type:	OTHER
Tank External:	SACRIFICIAL ANODE/JACKETED		
Tank Status:	In Service		
Tank Error Status:	Minor Data Missing		
Pipe External:	OTHER/JACKETED		
Second Containment:	DOUBLED-WALLED TANK		
Leak Detection:	INTERSTITIAL MONITORING		
Overfill Prot:	Float Vent Valve, Catch Basin	Dispenser:	Suction
Date Tested:	03/97	Next Test Date:	03/12
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	False

ARGENIO BROTHERS,INC (Continued) **U000379820**

Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	16000	Renewal Date:	07/21/92
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/03/97
Old PBS Number:	Not reported	Expiration Date:	03/03/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	TRUCKING/TRANSPORTATION		
PBS Number:	3-171298	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-5102
Operator:	VARIES		
Emergency Contact:	GENARD ARGENIO, (914) 565-2007		
Total Tanks:	2		
Owner:	ARGENIO BROS. INC. PO BOX 2068 NEWBURGH, NY 12550 (914) 561-5102		
Owner Type:	Corporate/Commercial	Owner Mark:	Second Owner
Owner Subtype:	Not reported		
Mailing Address:	ARGENIO BROS. INC. 2 ARGENIO DR. P.O. BOX 2068 NEWBURGH, NY 12550 (914) 561-5102 ATTN: JEANETTE B.SMITH		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	6000		
Tank Location:	UNDERGROUND		
Tank ID:	5	Install Date:	03/97
Product Stored:	UNLEADED GASOLINE	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	OTHER
Pipe Location:	Underground	Pipe Type:	OTHER
Tank External:	SACRIFICIAL ANODE/JACKETED		
Tank Status:	In Service		
Tank Error Status:	Minor Data Missing		
Pipe External:	OTHER/JACKETED		
Second Containment:	DOUBLED-WALLED TANK		
Leak Detection:	INTERSTITIAL MONITORING		
Overfill Prot:	Float Vent Valve, Catch Basin	Dispenser:	Suction
Date Tested:	03/97	Next Test Date:	03/12
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	16000	Renewal Date:	07/21/92
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/03/97
Old PBS Number:	Not reported	Expiration Date:	03/03/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		

ARGENIO BROTHERS,INC (Continued) **U000379820**

Lat/long: Not reported
Facility Type: TRUCKING/TRANSPORTATION

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5 West 1/8-1/4 716 Higher

ORANGE CNTY REHAB CNTR-OCCUPAT **UST** **U000378382**
67 WINDSOR HIGHWAY ROUTE 32 **N/A**
NEW WINDSOR, NY 12550

PBS UST:

PBS Number:	3-104841	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-6850
Operator:	ORANGE CNTY REHAB CNTR-OCCUPAT		
Emergency Contact:	WALTER C PAWLOWSKI, (914) 692-6534		
Total Tanks:	1		
Owner:	ORANGE CNTY REHAB CNTR-OCCUPAT FORTUNE ROAD WEST MIDDLETOWN, NY 10940 (914) 692-4454		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	ORANGE CNTY REHAB CNTR-OCCUPAT 70 FORTUNE ROAD WEST MIDDLETOWN, NY 10940 (914) 692-4454 ATTN: WALTER C. PAWLOWSKI		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	5000		
Tank Location:	UNDERGROUND		
Tank ID:	3	Install Date:	12/84
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	NONE	Pipe Internal:	NONE
Pipe Location:	Above/Underground Combination	Pipe Type:	GALVANIZED STEEL
Tank External:	NONE/NONE		
Tank Status:	In Service		
Tank Error Status:	No Missing Data		
Pipe External:	NONE/PAINTED/ASPHALT COATING		
Second Containment:	NONE/NONE		
Leak Detection:	NONE/NONE		
Overfill Prot:	Product Level Gauge, None	Dispenser:	Suction
Date Tested:	12/94	Next Test Date:	12/99
Date Closed:	Not reported	Test Method:	UNKNOWN
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	5000	Renewal Date:	12/04/96
Tank Screen:	No data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	06/30/99
Old PBS Number:	Not reported	Expiration Date:	03/10/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING, TRUCKING/TRANSPORTATION		

PBS Number:	3-104841	CBS Number:	Not reported
SPDES Number:	Not reported		

ORANGE CNTY REHAB CNTR-OCCUPAT (Continued) **U000378382**

SWIS ID:	3348	Telephone:	(914) 562-6850
Operator:	ORANGE CNTY REHAB CNTR-OCCUPAT		
Emergency Contact:	WALTER C PAWLOWSKI, (914) 692-6534		
Total Tanks:	1		
Owner:	ORANGE CNTY REHAB CNTR-OCCUPAT FORTUNE ROAD WEST MIDDLETOWN, NY 10940 (914) 692-4454		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	ORANGE CNTY REHAB CNTR-OCCUPAT 70 FORTUNE ROAD WEST MIDDLETOWN, NY 10940 (914) 692-4454 ATTN: WALTER C. PAWLOWSKI		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	2000		
Tank Location:	UNDERGROUND		
Tank ID:	4	Install Date:	12/84
Product Stored:	LEADED GASOLINE	Tank Type:	Steel/carbon steel
Tank Internal:	NONE	Pipe Internal:	NONE
Pipe Location:	Above/Underground Combination	Pipe Type:	GALVANIZED STEEL
Tank External:	SACRIFICIAL ANODE/NONE		
Tank Status:	Closed-Removed		
Tank Error Status:	No Missing Data		
Pipe External:	NONE/PAINTED/ASPHALT COATING		
Second Containment:	VAULT/NONE		
Leak Detection:	GROUNDWATER WELL/NONE		
Overfill Prot:	Product Level Gauge, None	Dispenser:	Suction
Date Tested:	12/94	Next Test Date:	Not reported
Date Closed:	12/98	Test Method:	UNKNOWN
Deleted:	False	Updated:	True
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	5000	Renewal Date:	12/04/96
Tank Screen:	No data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	06/30/99
Old PBS Number:	Not reported	Expiration Date:	03/10/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING, TRUCKING/TRANSPORTATION		

B6 **PLAZA MATERIALS CONCRETE PLANT** **UST** **U003075559**
WNW **RUSCITTI RD** **AST** **N/A**
1/8-1/4 **NEW WINDSOR, NY 12550**
757
Higher

PBS UST:

PBS Number:	3-175633	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-3240
Operator:	PLAZA MATERIALS COMPANY		
Emergency Contact:	JERRY FLETCHER, (914) 778-5458		
Total Tanks:	1		
Owner:	YONKERS CONTRACTING CO INC		

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

969 MIDLAND AVE
YONKERS, NY 10704
(914) 965-1500

Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500 ATTN: THEODORE M MITCHELL		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	03/67
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed-Removed		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	12/87	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	HORNER
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	10000	Renewal Date:	09/29/97
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	10/27/97
Old PBS Number:	Not reported	Expiration Date:	12/14/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING		
PBS Number:	3-175633	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-3240
Operator:	PLAZA MATERIALS COMPANY		
Emergency Contact:	JERRY FLETCHER, (914) 778-5458		
Total Tanks:	1		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500 ATTN: THEODORE M MITCHELL		

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	2	Install Date:	03/67
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed-Removed		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	12/87	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	HORNER
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	10000	Renewal Date:	09/29/97
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	10/27/97
Old PBS Number:	Not reported	Expiration Date:	12/14/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING		
PBS Number:	3-175633	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-3240
Operator:	PLAZA MATERIALS COMPANY		
Emergency Contact:	JERRY FLETCHER, (914) 778-5458		
Total Tanks:	1		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500 ATTN: THEODORE M MITCHELL		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	3	Install Date:	03/67
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed-Removed		

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	10000	Renewal Date:	09/29/97
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	10/27/97
Old PBS Number:	Not reported	Expiration Date:	12/14/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING		
PBS Number:	3-175633	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 562-3240
Operator:	PLAZA MATERIALS COMPANY		
Emergency Contact:	JERRY FLETCHER, (914) 778-5458		
Total Tanks:	1		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704 (914) 965-1500 ATTN: THEODORE M MITCHELL		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	4	Install Date:	03/67
Product Stored:	UNLEADED GASOLINE	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	GALVANIZED STEEL
Tank External:	Not reported		
Tank Status:	Closed-Removed		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	No data missing
FAMT:	Fiscal amount for registration fee is correct		

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Total Capacity:	10000	Renewal Date:	09/29/97
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	10/27/97
Old PBS Number:	Not reported	Expiration Date:	12/14/02
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	MANUFACTURING		

PBS AST:

PBS Number:	3-175625		
SPDES Number:	Not reported	SWIS Code:	3348
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	MANUFACTURING		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704		
Owner Phone:	(914) 965-1500		
Facility Phone:	(914) 562-3240		
Operator:	ELLIOTT ARNOTT JR.		
Emergency Name:	JERRY FLETCHER		
Emergency Phone:	(914) 778-5458		
Total Tanks:	1		
Total Capacity:	Not reported		
Tank ID:	1		
Tank Status:	Closed-Removed		
Capacity (Gal):	2000		
Tank Error Status:	Minor data missing		
Tank Location:	ABOVEGROUND		
Product Stored:	NOS 1,2, OR 4 FUEL OIL		
Tank Type:	Steel/carbon steel		
Install Date:	03/63		
Tank Internal:	Not reported		
Tank External:	Not reported		
Tank Containment:	NONE		
Pipe Type:	STEEL/IRON		
Pipe Location:	Not reported		
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Leak Detection:	NONE		
Overfill Protection:	Not reported		
Dispenser Method:	Suction		
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	03/91	Test Method:	Not reported
Updated:	False	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	YONKERS CONTRACTING CO INC		
Mailing Address:	969 MIDLAND AVE YONKERS, NY 10704		
Mailing Contact:	Not reported		
Mailing Telephone:	(914) 965-1500		
Owner Mark:	First Owner	Expiration Date:	09/19/02

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Certification Flag:	False	Certification Date:	09/11/97
Renew Flag:	False	Renew Date:	07/21/97
Lat/Long:	Not reported		
Dead Letter:	False		
Facility Screen:	No data missing		
Owner Screen:	No data missing		
Tank Screen:	No data missing		

Fiscal Amount for Registration Fee is Correct: True

PBS Number:	3-175625		
SPDES Number:	Not reported	SWIS Code:	3348
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	MANUFACTURING		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704		
Owner Phone:	(914) 965-1500		
Facility Phone:	(914) 562-3240		
Operator:	ELLIOTT ARNOTT JR.		
Emergency Name:	JERRY FLETCHER		
Emergency Phone:	(914) 778-5458		
Total Tanks:	1		
Total Capacity:	Not reported		
Tank ID:	2		
Tank Status:	Closed-Removed		
Capacity (Gal):	10000		
Tank Error Status:	Minor data missing		
Tank Location:	ABOVEGROUND		
Product Stored:	NOS 1,2, OR 4 FUEL OIL		
Tank Type:	Steel/carbon steel		
Install Date:	03/63		
Tank Internal:	Not reported		
Tank External:	Not reported		
Tank Containment:	NONE		
Pipe Type:	STEEL/IRON		
Pipe Location:	Not reported		
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Leak Detection:	NONE		
Overfill Protection:	Not reported		
Dispenser Method:	Suction		
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	Not reported	Test Method:	Not reported
Updated:	False	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	YONKERS CONTRACTING CO INC		
Mailing Address:	969 MIDLAND AVE YONKERS, NY 10704		
Mailing Contact:	Not reported		
Mailing Telephone:	(914) 965-1500		
Owner Mark:	First Owner	Expiration Date:	09/19/02
Certification Flag:	False	Certification Date:	09/11/97

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Renew Flag:	False	Renew Date:	07/21/97
Lat/Long:	Not reported		
Dead Letter:	False		
Facility Screen:	No data missing		
Owner Screen:	No data missing		
Tank Screen:	No data missing		
Fiscal Amount for Registration Fee is Correct:	True		
PBS Number:	3-175633		
SPDES Number:	Not reported	SWIS Code:	3348
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Facility Type:	MANUFACTURING		
Owner Type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Owner:	YONKERS CONTRACTING CO INC 969 MIDLAND AVE YONKERS, NY 10704		
Owner Phone:	(914) 965-1500		
Facility Phone:	(914) 562-3240		
Operator:	PLAZA MATERIALS COMPANY		
Emergency Name:	JERRY FLETCHER		
Emergency Phone:	(914) 778-5458		
Total Tanks:	1		
Total Capacity:	Not reported		
Tank ID:	5		
Tank Status:	In Service		
Capacity (Gal):	10000		
Tank Error Status:	Minor data missing		
Tank Location:	ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE		
Product Stored:	DIESEL		
Tank Type:	Steel/carbon steel		
Install Date:	Not reported		
Tank Internal:	Not reported		
Tank External:	Not reported		
Tank Containment:	Not reported		
Pipe Type:	GALVANIZED STEEL		
Pipe Location:	Not reported		
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Leak Detection:	OTHER		
Overfill Protection:	Product Level Gauge		
Dispenser Method:	Submersible		
Date Tested:	Not reported	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported
Updated:	False	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	YONKERS CONTRACTING CO INC		
Mailing Address:	969 MIDLAND AVE YONKERS, NY 10704		
Mailing Contact:	THEODORE M MITCHELL		
Mailing Telephone:	(914) 965-1500		
Owner Mark:	First Owner	Expiration Date:	12/14/02
Certification Flag:	False	Certification Date:	10/27/97
Renew Flag:	False	Renew Date:	09/29/97

PLAZA MATERIALS CONCRETE PLANT (Continued) **U003075559**

Lat/Long: Not reported
Dead Letter: False
Facility Screen: No data missing
Owner Screen: No data missing
Tank Screen: Minor data missing
Fiscal Amount for Registration Fee is Correct: True

PBS Number: 3-175625
SPDES Number: Not reported SWIS Code: 3348
Federal ID: Not reported Previous PBS#: Not reported
Facility Status: 1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.
Facility Type: MANUFACTURING
Owner Type: Corporate/Commercial
Owner Sub Type: Not reported
Owner: YONKERS CONTRACTING CO INC
969 MIDLAND AVE
YONKERS, NY 10704
Owner Phone: (914) 965-1500
Facility Phone: (914) 562-3240
Operator: ELLIOTT ARNOTT JR.
Emergency Name: JERRY FLETCHER
Emergency Phone: (914) 778-5458
Total Tanks: 1
Total Capacity: Not reported
Tank ID: 3
Tank Status: In Service
Capacity (Gal): 10000
Tank Error Status: No data missing
Tank Location: ABOVEGROUND ON SADDLES LEGS, STILTS, RACK, OR CRADLE
Product Stored: NOS 1,2, OR 4 FUEL OIL
Tank Type: Steel/carbon steel
Install Date: 03/91
Tank Internal: NONE
Tank External: NONE/PAINTED/ASPHALT COATING
Tank Containment: NONE/PREFABRICATED STEEL DIKE
Pipe Type: GALVANIZED STEEL
Pipe Location: Above/Underground Combination
Pipe Internal: NONE
Pipe External: NONE/NONE
Leak Detection: NONE/OTHER
Overfill Protection: Product Level Gauge
Dispenser Method: Gravity
Date Tested: Not reported Next Test Date: N.T.R
Date Closed: Not reported Test Method: Not reported
Updated: False Deleted: False
Date Inspected: Not reported Inspector: Not reported
Result of Inspection: Not reported
Mailing Name: YONKERS CONTRACTING CO INC
Mailing Address: 969 MIDLAND AVE
YONKERS, NY 10704
Mailing Contact: Not reported
Mailing Telephone: (914) 965-1500
Owner Mark: First Owner Expiration Date: 09/19/02
Certification Flag: False Certification Date: 09/11/97
Renew Flag: False Renew Date: 07/21/97
Lat/Long: Not reported

PLAZA MATERIALS CONCRETE PLANT (Continued) — **U003075559**

Dead Letter: False
Facility Screen: No data missing
Owner Screen: No data missing
Tank Screen: No data missing
Fiscal Amount for Registration Fee is Correct: True

B7 WNW 1/8-1/4 795 Higher — **ARKEL MOTORS INC**, **70 WINDSOR HWY**, **NEWBURGH, NY 12550** — **FINDS RCRIS-LQG** — **1000203633 NYD061333746**

RCRIS:
Owner: LOUIS VANLEEUWEN
(212) 555-1212
Contact: RALPH MILLS
(914) 562-0532
Record Date: 02/12/1987
Classification: Large Quantity Generator
Used Oil Recyc: No
Violation Status: No violations found

NY MANIFEST
Additional detail is available in NY MANIFEST. Please contact your EDR Account Executive for more information.

B8 WNW 1/8-1/4 800 Higher — **C.J.BUILDING/ROYAL POOLS**, **73 WINDSOR HWY**, **NEW WINDSOR, NY 12553** — **UST** — **U003066004 N/A**

PBS UST:

PBS Number:	3-600898	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 565-7665
Operator:	JACK DEVITT		
Emergency Contact:	JACK DEVITT, (914) 561-1968		
Total Tanks:	2		
Owner:	JACK DEVITT 334 ANGOLA ROAD CORNWALL, NY 12518 (914) 561-1968		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	JACK DEVITT 334 ANGOLA ROAD CORNWALL, NY 12518 (914) 561-1968 Not Reported		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons. regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	550		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	00/00
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported

C.J.BUILDING/ROYAL POOLS (Continued) **U003066004**

Pipe Location:	Underground	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Tank Status:	Temporarily Out Of Service		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	Not reported		
Leak Detection:	Not reported		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported
Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	5550	Renewal Date:	/ /
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/19/96
Old PBS Number:	Not reported	Expiration Date:	03/19/01
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER RETAIL SALES		
PBS Number:	3-600898	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 565-7665
Operator:	JACK DEVITT		
Emergency Contact:	JACK DEVITT, (914) 561-1968		
Total Tanks:	2		
Owner:	JACK DEVITT 334 ANGOLA ROAD CORNWALL, NY 12518 (914) 561-1968		
Owner Type:	Corporate/Commercial	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	JACK DEVITT 334 ANGOLA ROAD CORNWALL, NY 12518 (914) 561-1968 Not Reported		
Facility Status:	1 - Active PBS facility, i.e. total capacity of the PBS tanks is greater than 1,100 gallons, regardless if Subpart 360-14 tanks exist or not at the facility.		
Capacity (gals):	5000		
Tank Location:	UNDERGROUND		
Tank ID:	2	Install Date:	00/00
Product Stored:	NOS 5 OR 6 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Underground	Pipe Type:	STEEL/IRON
Tank External:	Not reported		
Tank Status:	Temporarily Out Of Service		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	Not reported		
Leak Detection:	Not reported		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported

C.J.BUILDING/ROYAL POOLS (Continued) **U003066004**

Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	5550	Renewal Date:	/ /
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	No data missing
Certification Flag:	False	Certification Date:	03/19/96
Old PBS Number:	Not reported	Expiration Date:	03/19/01
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	OTHER RETAIL SALES		

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9 **KAISER BINDING INC.** **UST** **U003075770**
SSE **MAC ARTHUR & WALNUT AVENUE** **CBS AST** **N/A**
1/8-1/4 **NEW WINDSOR, NY 12553** **AST**
1271
Higher

CBS AST:

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Not reported		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	117817
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		

KAISER BINDING INC. (Continued) **U003075770**

Tank Secret:	False	Date Entered:	11/23/90 07:37:31
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		
CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	EMPTY OF A HAZARDOUS SUBSTANCE (used as a dummy var.)		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	99999999
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:37:57
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		
CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		

KAISER BINDING INC. (Continued) **U003075770**

Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Not reported		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	117817
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:38:24
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	2500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0

KAISER BINDING INC. (Continued) **U003075770**

Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	EMPTY OF A HAZARDOUS SUBSTANCE (used as a dummy var.)		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	99999999
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:38:43
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

PBS UST:

PBS Number:	3-506850	CBS Number:	Not reported
SPDES Number:	Not reported		
SWIS ID:	3348	Telephone:	(914) 561-3630
Operator:	KAISER BINDING INC.		
Emergency Contact:	JOHN J. KAISER, (914) 562-2851		
Total Tanks:	1		
Owner:	KAISER BINDING INC. MAC ARTHUR & WALNUT AVENUE NEW WINDSOR, NY 12553 (914) 561-3630		
Owner Type:	Not reported	Owner Mark:	First Owner
Owner Subtype:	Not reported		
Mailing Address:	KAISER BINDING INC. MAC ARTHUR & WALNUT AVENUE NEW WINDSOR, NY 12553 (914) 561-3630 Not Reported		
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.		
Capacity (gals):	4000		
Tank Location:	UNDERGROUND		
Tank ID:	1	Install Date:	00/00
Product Stored:	NOS 1,2, OR 4 FUEL OIL	Tank Type:	Steel/carbon steel
Tank Internal:	Not reported	Pipe Internal:	Not reported
Pipe Location:	Not reported	Pipe Type:	COPPER
Tank External:	Not reported		
Tank Status:	Closed Before April 1, 1991		
Tank Error Status:	Minor Data Missing		
Pipe External:	Not reported		
Second Containment:	NONE		
Leak Detection:	NONE		
Overfill Prot:	Not reported	Dispenser:	Suction
Date Tested:	Not reported	Next Test Date:	Not reported
Date Closed:	00/00	Test Method:	Not reported

KAISER BINDING INC. (Continued) **U003075770**

Deleted:	False	Updated:	False
Dead Letter:	False	Owner Screen:	Minor data missing
FAMT:	Fiscal amount for registration fee is correct		
Total Capacity:	1000	Renewal Date:	06/01/95
Tank Screen:	Minor data missing	Federal ID:	Not reported
Renew Flag:	Renwal has not been printed	Facility Screen:	Minor data missing
Certification Flag:	False	Certification Date:	12/07/90
Old PBS Number:	Not reported	Expiration Date:	12/03/95
Inspected Date:	Not reported	Inspector:	Not reported
Inspection Result:	Not reported		
Lat/long:	Not reported		
Facility Type:	Not reported		

CBS AST:

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Not reported		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	117817
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:37:31
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

KAISER BINDING INC. (Continued) **U003075770**

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	EMPTY OF A HAZARDOUS SUBSTANCE (used as a dummy var.)		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	99999999
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:37:57
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	3500		

KAISER BINDING INC. (Continued) **U003075770**

Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	Not reported		
Acutely Hazardous:	Not reported	Tank Closed:	00/00
PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	117817
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:38:24
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

CBS Number:	3-000255	Telephone:	(914) 561-3630
Owner:	KAISER BINDING INC MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553 (914) 561-3630		
Facility Status:	Inactive		
Total Tanks	0		
Tank Status:	Temp. Out of Service		
Tank Error Status:	Major Data Missing (which is on the certificate)		
Tank Location:	Aboveground on crib, rack or cradle		
Install Date:	Not reported		
Capacity (Gal):	2500		
Tank Type:	Steel/carbon steel		
Substance:	Not reported		
Extrnl Protection:			
Intrnl Protection:	Not reported		
Tank Containment:	None		
Pipe Type:	STEEL/IRON	Pipe Location:	Not reported
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Pipe Containment:	Not reported	Haz Percent:	0
Leak Detection:	Not reported		
Overfill Protection:	Not reported		
Chemical:	EMPTY OF A HAZARDOUS SUBSTANCE (used as a dummy var.)		
Acutely Hazardous:	Not reported	Tank Closed:	00/00

KAISER BINDING INC. (Continued) **U003075770**

PBS Number:	Not reported	SWIS Code:	3300
MOSF Number:	Not reported	CAS Number:	99999999
SPDES Number:	Not reported	ICS Number:	3-700850
Facility Type:	Not reported		
Operator:	KAISER BINDING INC	Facility Town:	NEW WINDSOR
Emrgncy Contact:	JOHN J. KAISER	Emrgncy Phone:	(914) 562-2851
Certified Date:	Not reported	Expiration Date:	19921123
Owner type:	Corporate/Commercial		
Owner Sub Type:	Not reported		
Mail Name:	KAISER BINDING INC		
Mail Contact:	JOHN J. KAISER MAC ARTHUR & WALNUT AVENUES NEW WINDSOR, NY 12553		
Mail Phone:	(914) 561-3630		
Tank Secret:	False	Date Entered:	11/23/90 07:38:43
Last Test:	Not reported	Due Date:	Not reported
DEC Reportable Quantities:	Not reported		
Air Reportable Quantities:	Not reported		

PBS AST:

PBS Number:	3-506850		
SPDES Number:	Not reported	SWIS Code:	3348
Federal ID:	Not reported	Previous PBS#:	Not reported
Facility Status:	2 - Unregulated by PBS (the total capacity is less than 1,101 gallons) and Subpart 360-14.		
Facility Type:	Not reported		
Owner Type:	Not reported		
Owner Sub Type:	Not reported		
Owner:	KAISER BINDING INC. MAC ARTHUR & WALNUT AVENUE NEW WINDSOR, NY 12553		
Owner Phone:	(914) 561-3630		
Facility Phone:	(914) 561-3630		
Operator:	KAISER BINDING INC.		
Emergency Name:	JOHN J. KAISER		
Emergency Phone:	(914) 562-2851		
Total Tanks:	1		
Total Capacity:	Not reported		
Tank ID:	2		
Tank Status:	In Service		
Capacity (Gal):	1000		
Tank Error Status:	Minor data missing		
Tank Location:	ABOVEGROUND 10% OR MORE BELOW GROUND		
Product Stored:	NOS 1,2, OR 4 FUEL OIL		
Tank Type:	Steel/carbon steel		
Install Date:	10/90		
Tank Internal:	Not reported		
Tank External:	Not reported		
Tank Containment:	NONE		
Pipe Type:	COPPER		
Pipe Location:	Not reported		
Pipe Internal:	Not reported		
Pipe External:	Not reported		
Leak Detection:	NONE		
Overfill Protection:	Not reported		
Dispenser Method:	Suction		
Date Tested:	Not reported	Next Test Date:	N.T.R
Date Closed:	Not reported	Test Method:	Not reported

KAISER BINDING INC. (Continued) **U003075770**

Updated:	False	Deleted:	False
Date Inspected:	Not reported	Inspector:	Not reported
Result of Inspection:	Not reported		
Mailing Name:	KAISER BINDING INC.		
Mailing Address:	MAC ARTHUR & WALNUT AVENUE NEW WINDSOR, NY 12553		
Mailing Contact:	Not reported		
Mailing Telephone:	(914) 561-3630		
Owner Mark:	First Owner	Expiration Date:	12/03/95
Certification Flag:	False	Certification Date:	12/07/90
Renew Flag:	False	Renew Date:	06/01/95
Lat/Long:	Not reported		
Dead Letter:	False		
Facility Screen:	Minor data missing		
Owner Screen:	Minor data missing		
Tank Screen:	Minor data missing		

Fiscal Amount for Registration Fee is Correct: True

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10 **KAISER BINDING** LUST **S102673603**
SSE **MACARTHUR / WALNUT AVE.** **N/A**
1/8-1/4 **NEW WINDSOR, NY**
1278
Higher

LUST:

Spill Number:	9008220	Region of Spill:	3
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	DUNN	SWIS:	33
Caller Name:	ZYWIA WOJNAR	Caller Agency:	US HYDRO
Caller Phone:	(914) 473-0074	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	SAME		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	10/31/1990		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Non Commercial/Industrial
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	10/26/1990 14:30	Reported to Dept:	10/26/1990 14:35
Cleanup Ceased:	06/18/1953		
Last Inspection:	Not reported		
Cleanup Meets Standard:	True		
Recommended Penalty:	No Penalty		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	Not reported		
Is Updated:	False		

Corrective Action Plan Submitted: Not reported
Date Spill Entered In Computer Data File: 10/31/1990
Date Region Sent Summary to Central Office: Not reported
DEC Remarks: Not reported
Spill Cause: 4K TANK PULLED APPROX. 10 YDS OF CONTAMINATED SOIL REMOVED FROM OVERTANK S

11
SW
1/4-1/2
1623
Higher

111 WINDSOR HWY
NEW WINDSOR, NY

LUST **S103824344**
N/A

LUST:

Spill Number:	9809216	Region of Spill:	3
Facility Contact:	MARVIN LANDMAN INC	Facility Tele:	(914) 565-2780
Investigator:	TRAVER	SWIS:	33
Caller Name:	ED COUPART	Caller Agency:	ED COUPART & SON
Caller Phone:	(914) 783-4628	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
Spiller Contact:	BOB DEVITT	Spiller Phone:	(914) 565-2780
Spiller:	MARVIN LANDMAN INC		
Spiller Address:	111 WINDSOR HIGHWAY NEW WINDSOR, NY 12550		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	Not reported		
Spill Cause:	Tank Overfill	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	10/23/1998 10:00	Reported to Dept:	10/23/1998 11:41
Cleanup Ceased:	Not reported		
Last Inspection:	Not reported		

Cleanup Meets Standard:	False
Recommended Penalty:	No Penalty
Spiller Cleanup Date:	Not reported
Enforcement Date:	Not reported
Investigation Complete:	Not reported
UST Involvement:	False
Spill Record Last Update:	11/06/1998
Is Updated:	False
Corrective Action Plan Submitted:	Not reported
Date Spill Entered In Computer Data File:	10/23/1998
Date Region Sent Summary to Central Office:	Not reported
DEC Remarks:	Not reported
Spill Cause:	CALLER REPORTING THAT DURING TANK PULL, SEVERAL YARDS OF CONTAMINATED SO IL WERE FOUND.

C12
South
1/4-1/2
2217
Higher

BEARSE MANUFACTURING CO INC
230 MACARTHUR AVE
NEW WINDSOR, NY 12553

RCRIS-SQG **1000554774**
FINDS **NYD986972529**
LUST

BEARSE MANUFACTURING CO INC (Continued) **1000554774**

RCRIS:
Owner: BEARSE MANUFACTURING CO INC
(312) 235-8710

Contact: JAMES ERICKSON
(914) 562-8080

Record Date: 09/04/1991

Classification: Conditionally Exempt Small Quantity Generator

Used Oil Recyc: No

Violation Status: Violation information exist

There are 2 violation record(s) reported at this site:

Evaluation	Area of Violation	Date of Compliance
Compliance Evaluation Inspection (CEI)	Generator-Land Ban Requirements	08/13/1993
	Generator-All Requirements	08/13/1993

LUST:

Spill Number:	8704239	Region of Spill:	3
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	OKESSON	SWIS:	33
Caller Name:	Not reported	Caller Agency:	Not reported
Caller Phone:	Not reported	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
Spiller Contact:	Not reported	Spiller Phone:	(914) 562-8080
Spiller:	SAME		
Spiller Address:	Not reported		
Spill Class:	Not reported		
Spill Closed Dt:	09/25/1987		
Spill Cause:	Tank Test Failure	Resource Affected:	Groundwater
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Tank Tester	PBS Number:	Not reported
Spill Date:	08/21/1987 14:30	Reported to Dept:	08/21/1987 15:16
Cleanup Ceased:	09/23/1987		
Last Inspection:	19870923		
Cleanup Meets Standard:	True		
Recommended Penalty:	No Penalty		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	False		
Spill Record Last Update:	09/25/1987		
Is Updated:	False		

Corrective Action Plan Submitted: Not reported
Date Spill Entered In Computer Data File: 09/25/1987
Date Region Sent Summary to Central Office: Not reported
DEC Remarks: / / : TANK PUMPED OUT. TO BE REMOVED.NFA.
Spill Cause: LEAK RATE -.151 GPH.

C13 South 1/4-1/2 2217 Higher **DEARSE MFR.** **LUST** **S100560160**
230 MACARTHUR AVE **N/A**
NEW WINDSOR, NY

DEARSE MFR. (Continued) **S100560160**

LUST:

Spill Number:	9303382	Region of Spill:	3
Facility Contact:	Not reported	Facility Tele:	Not reported
Investigator:	WADSWORTH	SWIS:	33
Caller Name:	ED COUPART	Caller Agency:	Not reported
Caller Phone:	(914) 783-4628	Caller Extension:	Not reported
Notifier Name:	Not reported	Notifier Agency:	Not reported
Notifier Phone:	Not reported	Notifier Extension:	Not reported
Spiller Contact:	Not reported	Spiller Phone:	Not reported
Spiller:	Not reported		
Spiller Address:	Not reported		
Spill Class:	Known release with minimal potential for fire or hazard. DEC Response. Willing Responsible Party. Corrective action taken.		
Spill Closed Dt:	02/21/1995		
Spill Cause:	Tank Failure	Resource Affected:	On Land
Water Affected:	Not reported	Spill Source:	Other Commercial/Industrial
Spill Notifier:	Other	PBS Number:	Not reported
Spill Date:	06/15/1993 11:00	Reported to Dept:	06/15/1993 11:24
Cleanup Ceased:	02/21/1995		
Last Inspection:	Not reported		
Cleanup Meets Standard:	False		
Recommended Penalty:	No Penalty		
Spiller Cleanup Date:	Not reported		
Enforcement Date:	Not reported		
Investigation Complete:	Not reported		
UST Involvement:	True		
Spill Record Last Update:	02/21/1995		
Is Updated:	False		
Corrective Action Plan Submitted:	Not reported		
Date Spill Entered In Computer Data File:	06/16/1993		
Date Region Sent Summary to Central Office:	Not reported		
DEC Remarks:	Not reported		
Spill Cause:	DISCOVERED IN TANK PULL WILL STOCKPILE SOIL		

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14 NE 1/4-1/2 2342 Lower **AMERICAN FELT AND FILTER CORP.** **SHWS** **S101008378**
WALSH AVENUE **N/A**
NEW WINDSOR, NY 12550

SHWS:

Facility ID:	336036	EPA ID:	Not reported
Region:	3	Site Type:	Dump
Acres:	4 Acres	User:	American Felt and Filter, G.A.F.
Owner:	American Felt and Filter Corp. Walsh Ave. New Windsor, NY 12550		
Operator:	American Felt and Filter Corp/GAF Walsh Ave. New Windsor, NY 12550		
Classification:	SIGNIFICANT THREAT TO THE PUBLIC HEALTH OR ENVIRONMENT - ACTION REQUIRED.		
Hazardous Waste Disposed:	From 1940's To Present		
Analytical Data Available:	Groundwater Soil		
Applicable Standards Exceeded:	Groundwater		
Geotechnical Information:	Not reported		
Depth to Groundwater:	4 ft.		
Legal Action Type:	State Consent Order Federal Consent		

AMERICAN FELT AND FILTER CORP. (Continued) **S101008378**

Remedial Action:	Not reported
Nature of Action:	Not reported
Enforcement Status:	Negotiations in Progress
Hazardoud Waste:	Soil and groundwater contamination have occurred at the site. Potential threat to adjacent Quassaick Creek.
Site Description:	This plant manufactures a wide variety of felt and filter products. An investigation was conducted during 1988 as a condition of the facility's SPDES permit. The study was conducted to determine the source and extent of groundwater contamination because traces of 1,1,1-trichloroethane (TCA) were detected in the facility's groundwater seepage and storm water runoff outfall that empties into the adjacent Quassaick Creek. The chemical TCA was used as a solvent & carrier for zinc resinate which is used to impregnate felt sheets in the Feutron Dept. Groundwater analysis in January 1988 revealed TCA at 1400 & 2800 ppb in wells north of the Feutron Dept. near a drum storage area, and 870 & 1200 ppb in 12/88. Soil samples in the storage area in December 1988 revealed TCA at 360-2600 ppb. The source of contamination is believed to be past leakage within the enclosed process area and spillage in the storage area. The groundwater flow is believed to be in the northerly direction. A significant threat exists because TCA is impacting both the shallow and deep aquifers. This poses a potential threat to the Quassaick Creek and the Hudson River, which is less than 1/2 miles from the site. EPA and the PRP have entered a consent order for water discharges. The Division of Environmental Enforcement is in negotiation for an RI/FS for this site.
Environmental Problems:	1,1,1-trichloroethane (TCA) (F001) - Unknown
Health Problems:	All business and residences in the area are served by a public water supply. The contaminants have not affected the public wellfields. Groundwater and surface water flow north into a creek and then into the Hudson River one-half mile away. There areno residences in that direction. The site is fenced; therefore, only on-site workers have the potential for direct contact with low level soil contamination.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)	Facility ID
NEW WINDSOR	S102104031	WEST CARGO AREA	RT. 17K	12553	LUST, NY Spills	8910158
NEW WINDSOR	S100142058	BIG SAVER S/S	153 RT. 207	12553	LUST	9011913
NEW WINDSOR	S102448142	FURNITURE OPTIONS	RT 207 / MIDDLEBRITAN RD	12553	LUST	9612046
NEW WINDSOR	U000414281	BIG SAVER	ROUTE 207	12553	UST	3-168858
NEW WINDSOR	U000418348	BELCHER	ROUTE 207	12553	UST	3-493708
NEW WINDSOR	S100165686	BIG SAVER	RT 207		LUST	8705216
NEW WINDSOR	S100140766	HIGHWAY GARAGE	RT. 300	12553	LUST	8910683
NEW WINDSOR	U001843332	UNITED PARCEL SERVICE	ROUTE 300 GATEWAY INTERNATIONAL	12553	UST, AST	3-176443
NEW WINDSOR	1001460259	PLAZA MATERIALS CORP	RTE 32 & RUSCITTI RD	12550	RCRIS-SQG, LUST	8708038
NEW WINDSOR	1000127033	W J L CLEANERS	RTE 32 WINDSOR HWY - BIG V PLZ	12553	RCRIS-SQG, FINDS	
NEW WINDSOR	U001844401	BLUE CHIP GOLF	ROUTE 32	12553	UST	3-501948
NEW WINDSOR	S102109972	IN WOODS OFF ROAD	RT. 9W	12553	NY Spills	9409736
NEW WINDSOR	S102105009	ON ROAD	RT. 9W / RIVER ROAD	12553	NY Spills	9207989
NEW WINDSOR	1000556458	NYSDOT BIN 1007260	RTE 9W & MOODNA CREEK	12553	RCRIS-SQG, FINDS	
NEW WINDSOR	S100139632	N. WINDSOR STP	RT 9W	12553	LUST	8706492
NEW WINDSOR	S103570172	LAFAYETTE PAPER CO	754 FORGE HILL RD	12553	LUST, NY Spills	9611414
NEW WINDSOR	1000314163	MAGNETIC CORE	JONES ST	12553	RCRIS-SQG, FINDS, NY Spills	8803153
NEW WINDSOR	1001223714	ULTRA GLASS	1 MACARTHUR AVE	12553	RCRIS-SQG, FINDS	
NEW WINDSOR	94373868	1500 ORRS MILLS ROAD	1500 ORRS MILLS ROAD		ERNS	
NEW WINDSOR	S102240695	RIVER ROAD SOIL BURNING	RIVER RD	12553	NY Spills	9511030
NEW WINDSOR	U001842962	NEW WINDSOR WATER DEPARTMENT	43 49 ROUTE 9L1	12553	UST	3-165565
NEW WINDSOR	S103557953	SQUIRE VILLAGE CONDO'S	RT.94	12553	LUST	9808699
NEW WINDSOR	S102108524	RIVER ROAD	WELTCH / RIVER ROAD	12553	NY Spills	9301480
NEWBURGH	1001230449	CONSOLIDATED IRON & METAL	FOOT OF WASHINGTON STREET (HUDSON RI\	12550	CERCLIS, FINDS	
NEWBURGH	S101008367	F & T DARRIGO	LAKESIDE ROAD	12550	SHWS	336002
NEWBURGH	S102154907	NEWBURGH LANDFILL	PIERCES ROAD	12550	HSWDS, NY Spills	9315531

GEOCHECK VERSION 2.1 ADDENDUM
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Northern Quadrant)

BASIC WELL DATA

Site ID:	412920074015001	Distance from TP:	1/8 - 1/4 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Orange
Altitude:	125.00 ft.	State:	New York
Well Depth:	33.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	6.60 ft.	Prim. Use of Site:	Destroyed
Date Measured:	01011965	Prim. Use of Water:	Not Reported

LITHOLOGIC DATA

Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Eastern Quadrant)

BASIC WELL DATA

Site ID:	412920074014901	Distance from TP:	1/8 - 1/4 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Orange
Altitude:	110.00 ft.	State:	New York
Well Depth:	24.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	1.00 ft.	Prim. Use of Site:	Destroyed
Date Measured:	01011965	Prim. Use of Water:	Not Reported

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Cenozoic-Quaternary-Pleistocene
Principal Lithology of Unit:	Sand and gravel
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Southern Quadrant)

BASIC WELL DATA

Site ID:	.412900074020001	Distance from TP:	1/8 - 1/4 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Orange
Altitude:	.00 ft.	State:	New York
Well Depth:	285.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	Not Reported	Prim. Use of Site:	Withdrawal of water
Date Measured:	Not Reported	Prim. Use of Water:	Commercial

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Devonian-Middle
Principal Lithology of Unit:	Limestone
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
FEDERAL DATABASE WELL INFORMATION

Well Closest to Target Property (Western Quadrant)

BASIC WELL DATA

Site ID:	.412900074030003	Distance from TP:	1/2 - 1 Mile
Site Type:	Single well, other than collector or Ranney type		
Year Constructed:	Not Reported	County:	Orange
Altitude:	.00 ft.	State:	New York
Well Depth:	57.00 ft.	Topographic Setting:	Not Reported
Depth to Water Table:	38.00 ft.	Prim. Use of Site:	Withdrawal of water
Date Measured:	08011965	Prim. Use of Water:	Domestic

LITHOLOGIC DATA

Geologic Age ID (Era/System/Series):	Devonian-Middle
Principal Lithology of Unit:	Limestone
Further Description:	Not Reported

WATER LEVEL VARIABILITY

Not Reported

GEOCHECK VERSION 2.1
STATE DATABASE WELL INFORMATION

Water Well Information:

Well Within >2 Miles of Target Property (Northern Quadrant)

Public Water Supply #:	3520694	Source ID:	001
PW Supply Name:	MEADOW HILL APTS		
Source Name:	DRILLED WELL #1		
Source Description:	Groundwater		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	413130	Longitude:	-740500
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	13	Watershed Sub-basin:	00
Treatment Plant ID:	002	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Not Reported

Well Within 1/4 - 1/2 Mile of Target Property (Eastern Quadrant)

Public Water Supply #:	3505072	Source ID:	001
PW Supply Name:	AVACAR MOTEL INC		
Source Name:	DR WELL #1		
Source Description:	Groundwater		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	412910	Longitude:	-740130
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	13	Watershed Sub-basin:	00
Treatment Plant ID:	Not Reported	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Not Reported

Well Within 1 - 2 Miles of Target Property (Southern Quadrant)

Public Water Supply #:	3503580	Source ID:	001
PW Supply Name:	NEW WINDSOR CONSOLIDATED WD		
Source Name:	CATSKILL AQUEDUCT		
Source Description:	Surface		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	412758	Longitude:	-740216
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	00	Watershed Sub-basin:	00
Treatment Plant ID:	005	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Not Reported

Well Within 1 - 2 Miles of Target Property (Western Quadrant)

Public Water Supply #:	3503549	Source ID:	001
PW Supply Name:	NEWBURGH CITY		
Source Name:	WASHINGTON LAKE		
Source Description:	Surface		
Availability/Utilization:	Permanent Utilization	Source Type:	Source Record
Latitude:	412933	Longitude:	-740400
Source Prod Capacity:	0	Fed ID of Seller:	Not Reported
Watershed Basin:	13	Watershed Sub-basin:	01
Treatment Plant ID:	004	Date of rec Last Update:	Not Reported
Water Type:	Not Reported	Record Tag:	Not Reported

GEOCHECK VERSION 2.1
PUBLIC WATER SUPPLY SYSTEM INFORMATION

Searched by Nearest PWS.

PWS SUMMARY:

PWS ID:	.NY0003580	PWS Status:	Active	Distance from TP:	1 - 2 Miles
Date Initiated:	Not Reported	Date Deactivated:	Not Reported	Dir relative to TP:	South
PWS Name:	NEW WINDSOR CONSOLIDATED WD 233 RILEY RD. NEW WINDSOR, NY 12553				
Addressee / Facility:	System Owner/Responsible Party MYERS GEORGE A TOWN OF NEW WINDSOR 555 UNION AVENUE NEW WINDSOR, NY 12553				
Facility Latitude:	41 27 58		Facility Longitude:	074 02 16	
City Served:	NEW WINDSOR (T)				
Treatment Class	Not Reported		Population Served:	Not Reported	

PWS currently has or has had major violation(s) or enforcement: No

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Elapsed ASTM days: Provides confirmation that this EDR report meets or exceeds the 90-day updating requirement of the ASTM standard.

FEDERAL ASTM RECORDS:

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System
Source: EPA
Telephone: 703-413-0223
CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/21/99
Date Made Active at EDR: 06/09/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 05/14/99
Elapsed ASTM days: 26
Date of Last EDR Contact: 08/30/99

ERNS: Emergency Response Notification System
Source: EPA/NTIS
Telephone: 202-260-2342
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/98
Date Made Active at EDR: 01/18/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 01/13/99
Elapsed ASTM days: 5
Date of Last EDR Contact: 08/06/99

NPL: National Priority List
Source: EPA
Telephone: N/A
National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC).

Date of Government Version: 05/10/99
Date Made Active at EDR: 06/09/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 05/12/99
Elapsed ASTM days: 28
Date of Last EDR Contact: 08/05/99

RCRIS: Resource Conservation and Recovery Information System
Source: EPA/NTIS
Telephone: 800-424-9346
Resource Conservation and Recovery Information System. RCRIS includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Date of Government Version: 07/01/99
Date Made Active at EDR: 08/11/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 07/07/99
Elapsed ASTM days: 35
Date of Last EDR Contact: 07/26/99

CORRACTS: Corrective Action Report
Source: EPA
Telephone: 800-424-9346
CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/99
Date Made Active at EDR: 04/16/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 03/17/99
Elapsed ASTM days: 30
Date of Last EDR Contact: 06/21/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEDERAL NON-ASTM RECORDS:

BRS: Biennial Reporting System
Source: EPA/NTIS
Telephone: 800-424-9346
The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/95
Database Release Frequency: Biennially
Date of Last EDR Contact: 06/21/99
Date of Next Scheduled EDR Contact: 09/20/99

CONSENT: Superfund (CERCLA) Consent Decrees
Source: EPA Regional Offices
Telephone: Varies
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: Varies
Database Release Frequency: Varies
Date of Last EDR Contact: Varies
Date of Next Scheduled EDR Contact: N/A

FINDS: Facility Index System/Facility Identification Initiative Program Summary Report
Source: EPA
Telephone: N/A
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/01/99
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/13/99
Date of Next Scheduled EDR Contact: 10/11/99

HMIRS: Hazardous Materials Information Reporting System
Source: U.S. Department of Transportation
Telephone: 202-366-4526
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/98
Database Release Frequency: Annually
Date of Last EDR Contact: 07/26/99
Date of Next Scheduled EDR Contact: 10/25/99

MLTS: Material Licensing Tracking System
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 12/08/98
Database Release Frequency: Quarterly
Date of Last EDR Contact: 07/12/99
Date of Next Scheduled EDR Contact: 10/11/99

NPL LIENS: Federal Superfund Liens
Source: EPA
Telephone: 205-564-4267
Federal Superfund Liens. Under the authority granted the USEPA by the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/91
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/27/99
Date of Next Scheduled EDR Contact: 08/23/99

PADS: PCB Activity Database System
Source: EPA
Telephone: 202-260-3936
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 09/22/97
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 08/17/99
Date of Next Scheduled EDR Contact: 11/15/99

RAATS: RCRA Administrative Action Tracking System
Source: EPA
Telephone: 202-564-4104
RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/95
Database Release Frequency: No Update Planned
Date of Last EDR Contact: 06/14/99
Date of Next Scheduled EDR Contact: 09/13/99

ROD: Records Of Decision
Source: NTIS
Telephone: 703-416-0223
Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 01/31/99
Database Release Frequency: Annually
Date of Last EDR Contact: 08/23/99
Date of Next Scheduled EDR Contact: 11/22/99

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-260-1531
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/97
Database Release Frequency: Annually
Date of Last EDR Contact: 06/28/99
Date of Next Scheduled EDR Contact: 09/27/99

TSCA: Toxic Substances Control Act
Source: EPA
Telephone: 202-260-1444
Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/94
Database Release Frequency: Every 4 Years
Date of Last EDR Contact: 08/03/99
Date of Next Scheduled EDR Contact: 10/25/99

MINES: Mines Master Index File
Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959

Date of Government Version: 08/01/98
Database Release Frequency: Semi-Annually
Date of Last EDR Contact: 07/08/99
Date of Next Scheduled EDR Contact: 10/04/99

AOCONCERN: San Gabriel Valley Areas of Concern
Source: EPA Region 9
Telephone: 415-744-2407
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/98
Database Release Frequency: N/A
Date of Last EDR Contact: 06/29/99
Date of Next Scheduled EDR Contact: N/A

STATE OF NEW YORK ASTM RECORDS:

LUST: Spills Information Database
Source: Department of Environmental Conservation
Telephone: 518-457-2462
Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 04/01/99
Date Made Active at EDR: 07/27/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 05/20/99
Elapsed ASTM days: 68
Date of Last EDR Contact: 08/03/99

SHWS: Inactive Hazardous Waste Disposal Sites in New York State
Source: Department of Environmental Conservation
Telephone: 518-457-0747
State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 04/01/99
Date Made Active at EDR: 09/16/99
Database Release Frequency: Annually
Date of Data Arrival at EDR: 07/15/99
Elapsed ASTM days: 63
Date of Last EDR Contact: 08/30/99

LF: Facility Register
Source: Department of Environmental Conservation
Telephone: 518-457-2051
Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 06/30/99
Date Made Active at EDR: 09/16/99
Database Release Frequency: Semi-Annually
Date of Data Arrival at EDR: 08/10/99
Elapsed ASTM days: 37
Date of Last EDR Contact: 08/10/99

UST: Petroleum Bulk Storage (PBS) Database
Source: Department of Environmental Conservation
Telephone: 518-457-4351
Facilities that have petroleum storage capacities in excess of 1,100 gallons and less than 400,000 gallons.

Date of Government Version: 07/01/99
Date Made Active at EDR: 10/05/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 08/19/99
Elapsed ASTM days: 47
Date of Last EDR Contact: 08/03/99

CBS UST: Chemical Bulk Storage Database
Source: NYSDEC
Telephone: 518-457-4351
Facilities that store regulated hazardous substances in underground tanks of any size

Date of Government Version: 04/01/99
Date Made Active at EDR: 07/27/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 05/20/99
Elapsed ASTM days: 68
Date of Last EDR Contact: 08/03/99

MOSF UST: Major Oil Storage Facilities Database
Source: NYSDEC
Telephone: 518-457-4351
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 04/01/99
Date Made Active at EDR: 07/27/99
Database Release Frequency: Quarterly
Date of Data Arrival at EDR: 05/20/99
Elapsed ASTM days: 68
Date of Last EDR Contact: 08/03/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE OF NEW YORK NON-ASTM RECORDS:

AST: Petroleum Bulk Storage (AST)
Source: Department of Environmental Conservation
Telephone: 518-457-4351
Registered Aboveground Storage Tanks.

Date of Government Version: 01/01/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/03/99
Date of Next Scheduled EDR Contact: 11/01/99

CBS AST: Chemical Bulk Storage Database
Source: NYSDEC
Telephone: 518-457-4351
Facilities that store regulated hazardous substances in aboveground tanks with capacities of 185 gallons or greater, and/or in underground tanks of any size.

Date of Government Version: 04/01/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/03/99
Date of Next Scheduled EDR Contact: 11/01/99

MOSF AST: Major Oil Storage Facilities Database
Source: NYSDEC
Telephone: 518-457-4351
Facilities that may be onshore facilities or vessels, with petroleum storage capacities of 400,000 gallons or greater.

Date of Government Version: 04/01/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/03/99
Date of Next Scheduled EDR Contact: 11/01/99

HSWDS: Hazardous Substance Waste Disposal Site Inventory
Source: Department of Environmental Conservation
Telephone: 518-457-0639
The list includes any known or suspected hazardous substance waste disposal sites. Also included are sites delisted from the Registry of Inactive Hazardous Waste Diposal Sites and non-registry sites which U.S. EPA Preliminary Assessment (PA) reports or Site Investigation (SI) reports were prepared.

Date of Government Version: 05/17/99
Database Release Frequency: Annually

Date of Last EDR Contact: 09/08/99
Date of Next Scheduled EDR Contact: 12/06/99

SPILLS: Spills Information Database
Source: Department of Environmental Conservation
Telephone: 518-457-2462
Data collected on spills reported to NYSDEC as required by one or more of the following: Article 12 of the Navigation Law, 6 NYCRR Section 613.8 (from PBS regs), or 6 NYCRR Section 595.2 (from CBS regs). It includes spills active as of April 1, 1986, as well as spills occurring since this date.

Date of Government Version: 04/01/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/03/99
Date of Next Scheduled EDR Contact: 11/01/99

VCP: Voluntary Cleanup Agreements
Source: Department of Environmental Conservation
Telephone: 518-457-7894
The voluntary remedial program uses private monies to get contaminated sites r emediated to levels allowing for the sites' productive use. The program covers virtually any kind of site and contamination.

Date of Government Version: 06/14/99
Database Release Frequency: Semi-Annually

Date of Last EDR Contact: 06/21/99
Date of Next Scheduled EDR Contact: 09/20/99

NEW YORK COUNTY RECORDS

CORTLAND COUNTY:

Cortland County UST Listing (AST)
Source: Cortland County Health Department
Telephone: 607-753-5035

Date of Government Version: 03/15/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/07/99
Date of Next Scheduled EDR Contact: 12/06/99

Cortland County UST Listing (UST)
Source: Cortland County Health Department
Telephone: 607-753-5035

Date of Government Version: 06/17/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 09/07/99
Date of Next Scheduled EDR Contact: 12/06/99

NASSAU COUNTY:

Registered Tank Database
Source: Nassau County Health Department
Telephone: 516-571-3314

Date of Government Version: 02/04/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/09/98
Date of Next Scheduled EDR Contact: 11/08/99

Registered Tank Database
Source: Nassau County Health Department
Telephone: 516-571-3314

Date of Government Version: 08/11/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 08/09/99
Date of Next Scheduled EDR Contact: 11/08/99

ROCKLAND COUNTY:

Petroleum Bulk Storage Database (AST)
Source: Rockland County Health Department
Telephone: 914-364-2605

Date of Government Version: 04/26/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/99
Date of Next Scheduled EDR Contact: 10/11/99

Petroleum Bulk Storage Database (UST)
Source: Rockland County Health Department
Telephone: 914-364-2605

Date of Government Version: 07/28/99
Database Release Frequency: Quarterly

Date of Last EDR Contact: 07/12/99
Date of Next Scheduled EDR Contact: 10/11/99

SUFFOLK COUNTY:

Underground Storage Tank Database (AST)
Source: Suffolk County Department of Health Services
Telephone: 516-854-2521

Date of Government Version: 03/01/98
Database Release Frequency: Annually

Date of Last EDR Contact: 09/07/98
Date of Next Scheduled EDR Contact: 12/06/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Database (UST)
Source: Suffolk County Department of Health Services
Telephone: 516-854-2521

Date of Government Version: 03/01/99
Database Release Frequency: Annually

Date of Last EDR Contact: 09/07/99
Date of Next Scheduled EDR Contact: 12/06/99

Historical and Other Database(s)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Former Manufactured Gas (Coal Gas) Sites: The existence and location of Coal Gas sites is provided exclusively to EDR by Real Property Scan, Inc. For a technical description of the types of hazards which may be found at such sites, contact your EDR customer service representative.

Disclaimer Provided by Real Property Scan, Inc.

The information contained in this report has predominantly been obtained from publicly available sources produced by entities other than Real Property Scan. While reasonable steps have been taken to insure the accuracy of this report, Real Property Scan does not guarantee the accuracy of this report. Any liability on the part of Real Property Scan is strictly limited to a refund of the amount paid. No claim is made for the actual existence of toxins at any site. This report does not constitute a legal opinion.

DELISTED NPL: NPL Deletions
Source: EPA
Telephone: N/A
The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/23/99
Date Made Active at EDR: 06/09/99
Database Release Frequency: Semi-Annually

Date of Data Arrival at EDR: 05/12/99
Elapsed ASTM days: 28
Date of Last EDR Contact: 08/10/99

NFRAP: No Further Remedial Action Planned
Source: EPA
Telephone: 703-413-0223
As of February 1995, CERCLIS sites designated "No Further Remedial Action Planned" (NFRAP) have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require Federal Superfund action or NPL consideration. EPA has removed approximately 25,000 NFRAP sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA's Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

Date of Government Version: 04/21/99
Date Made Active at EDR: 06/09/99
Database Release Frequency: Quarterly

Date of Data Arrival at EDR: 05/14/99
Elapsed ASTM days: 26
Date of Last EDR Contact: 08/30/99

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-260-2805
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SWDIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

Area Radon Information: The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones: Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

Oil/Gas Pipelines/Electrical Transmission Lines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines and electrical transmission lines.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

USGS Water Wells: In November 1971 the United States Geological Survey (USGS) implemented a national water resource information tracking system. This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on more than 900,000 wells, springs, and other sources of groundwater.

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in March 1997 from the U.S. Fish and Wildlife Service.

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Water Dams: National Inventory of Dams
Source: Federal Emergency Management Agency
Telephone: 202-646-2801
National computer database of more than 74,000 dams maintained by the Federal Emergency Management Agency.

New York Public Water Wells
Source: New York Department of Health
Telephone: 518-458-6731

New York Facility and Manifest Data
Source: NYSDEC
Telephone: 518-457-6585
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

APPENDIX E

HISTORICAL GROUND WATER QUALITY DATABASE

Groundwater Quality Sampling Database
Avery Dennison Monarch Facility
New Windsor, New York

Updated to Include September 1999 Sampling Results

Prepared by:
de maximis, inc.
November 1999

Table 1
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-1
Monarch Systems, Inc., New Windsor, New York

RIZ-1

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5										
1,2-Dichloroethane	5										
1,1-Dichloroethene	5										
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				1.5 JB	6.4 B	3 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5	8			1.6 J						
Toluene	5										
1,1,1-Trichloroethane (TCA)	5										
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	2.5		2.8	1.5 J	3.6 J	3.3	4 J			
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		10.5	NS	2.8	4.6	10	6.3	4	NS	NS	NS
Well Elevation (ft. MSL)			158.51	158.51	158.51	158.51	158.51	158.51	158.51	158.51	158.51
Depth of Water (ft.)			12.01	7.74	12.88	7.92	9.17	8.1	9.17 NS	9.2	12.1
Groundwater Elevation (ft. MSL)			146.5	150.77	145.63	150.59	149.34	150.41	149.34	149.31	146.41

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 1
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-1
Monarch Systems, Inc., New Windsor, New York

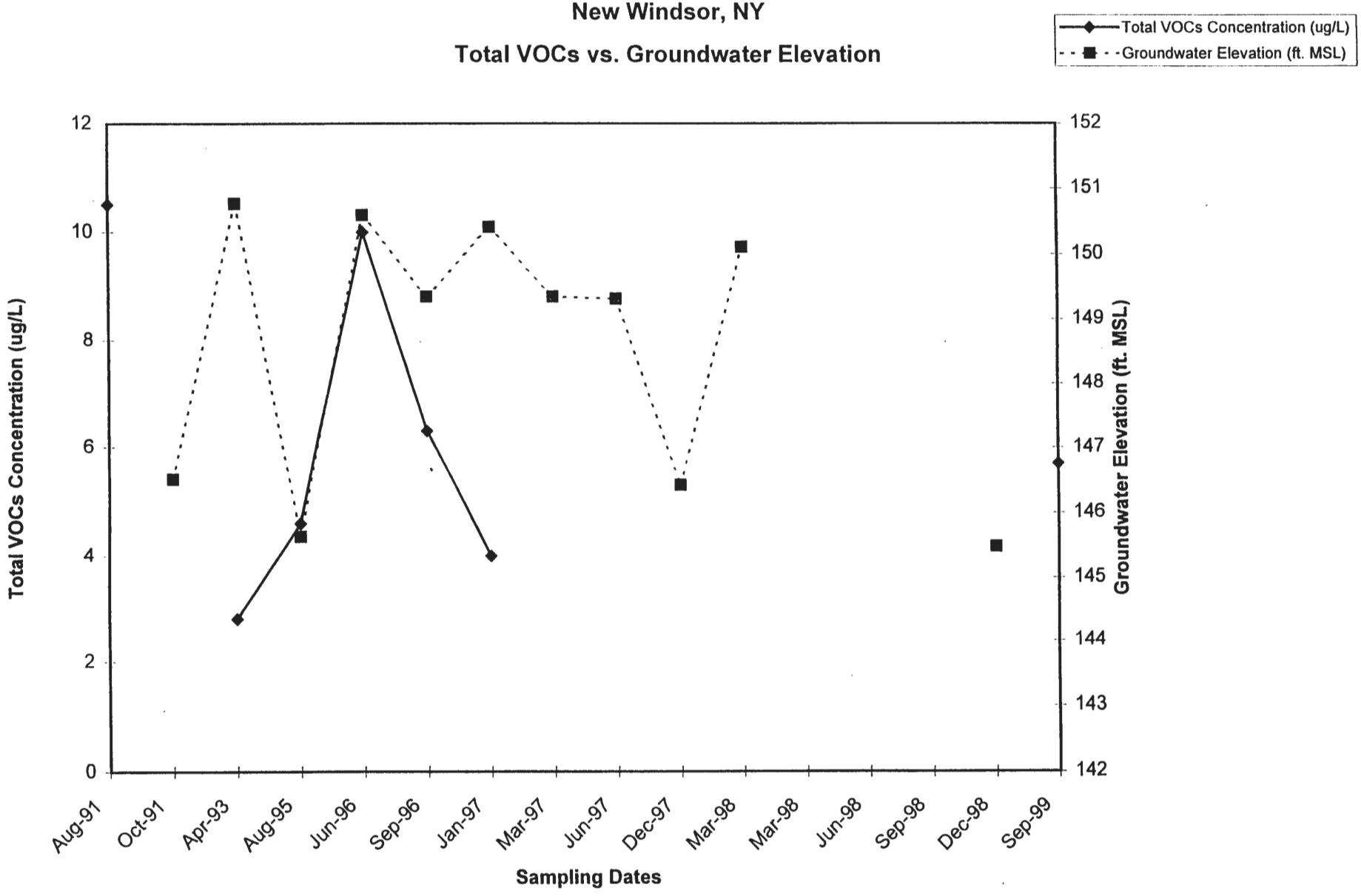
RIZ-1

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99													
Acetone	No Standard - 50 (guidance value)									1.7	J, B												
Benzene	0.7																						
Bromodichloromethane	Not Regulated																						
Bromoform	No Standard - 50 (guidance value)																						
Bromomethane	5									1.5	J, B												
2-Butanone (MEK)	No Standard - 50 (guidance value)																						
Carbon Disulfide	Not Regulated																						
Carbon Tetrachloride	5																						
Chlorobenzene	5																						
Chloroethane	5																						
2-Chloroethyl Vinyl Ether																							
Chloroform	7																						
Chloromethane	5																						
Dibromochloromethane	No Standard - 50 (guidance value)																						
1,1-Dichloroethane	5																						
1,2-Dichloroethane	5																						
1,1-Dichloroethene	5																						
trans-1,2-Dichloroethene	No Standard																						
1,2-Dichloropropane	5																						
cis-1,3-Dichloropropene	5																						
trans-1,3-Dichloropropene	5																						
Ethylbenzene	5																						
2-Hexanone	No Standard - 50 (guidance value)																						
4-Methyl-2-Pentanone (M1BK)	Not Regulated																						
Methylene Chloride	5																						
Styrene	5																						
1,1,2,2-Tetrachloroethane	5																						
Tetrachloroethene	5									1.2	J												
Toluene	5																						
1,1,1-Trichloroethane (TCA)	5																						
1,1,2-Trichloroethane	5																						
Trichloroethene (TCE)	5									1.3	J												
Vinyl Acetate	Not Regulated																						
Vinyl Chloride	2																						
Xylenes (Total)	5																						
TOTAL VOCs			NS		NS		NS		NS	5.7													
Well Elevation (ft. MSL)		158.51		158.51		158.51		158.51		158.51													
Depth of Water (ft.)		8.4			1A		1A		1A	13.03													
Groundwater Elevation (ft. MSL)		150.11								145.48													

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-1
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch1

Table 1

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-2
Monarch Systems, Inc., New Windsor, New York

RIZ-2

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5										
1,2-Dichloroethane	5										
1,1-Dichloroethene	5										
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				2.3 JB	1.5 J	3.6 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5			14		5.3 B	5.9	2.2 J	2.9 J		
Toluene	5										
1,1,1-Trichloroethane (TCA)	5			23		1.7 J	1.9				
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5			130	15	89	70	41	49	37	12
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		NS	NS	167	17.3	97.5	81.4	43.2	51.9	37	12
Well Elevation (ft. MSL)			156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8	156.8
Depth of Water (ft.)			11.63	7.77	11.93	7.41	8.6	7.27	8.24	8.4	11.38
Groundwater Elevation (ft. MSL)			145.17	149.03	144.87	149.39	148.2	149.53	148.56	148.4	145.42

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 2

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-2
Monarch Systems, Inc., New Windsor, New York

RIZ-2

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99															
Acetone	No Standard - 50 (guidance value)									2	J, B										
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5									1.5	J, B										
2-Butanone (MEK)	No Standard - 50 (guidance value)									1.5	J										
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5									1	J										
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	4	J	4	J																
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5	5.4																			
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	62		74		13		9	J	16											
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		71.4		78		13		9		22											
Well Elevation (ft. MSL)		156.8		156.8		156.8		156.8		156.8											
Depth of Water (ft.)		7.89		7.23		11.08		13.5		12.57											
Groundwater Elevation (ft. MSL)		148.91		149.57		145.72		143.3		144.23											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-2
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

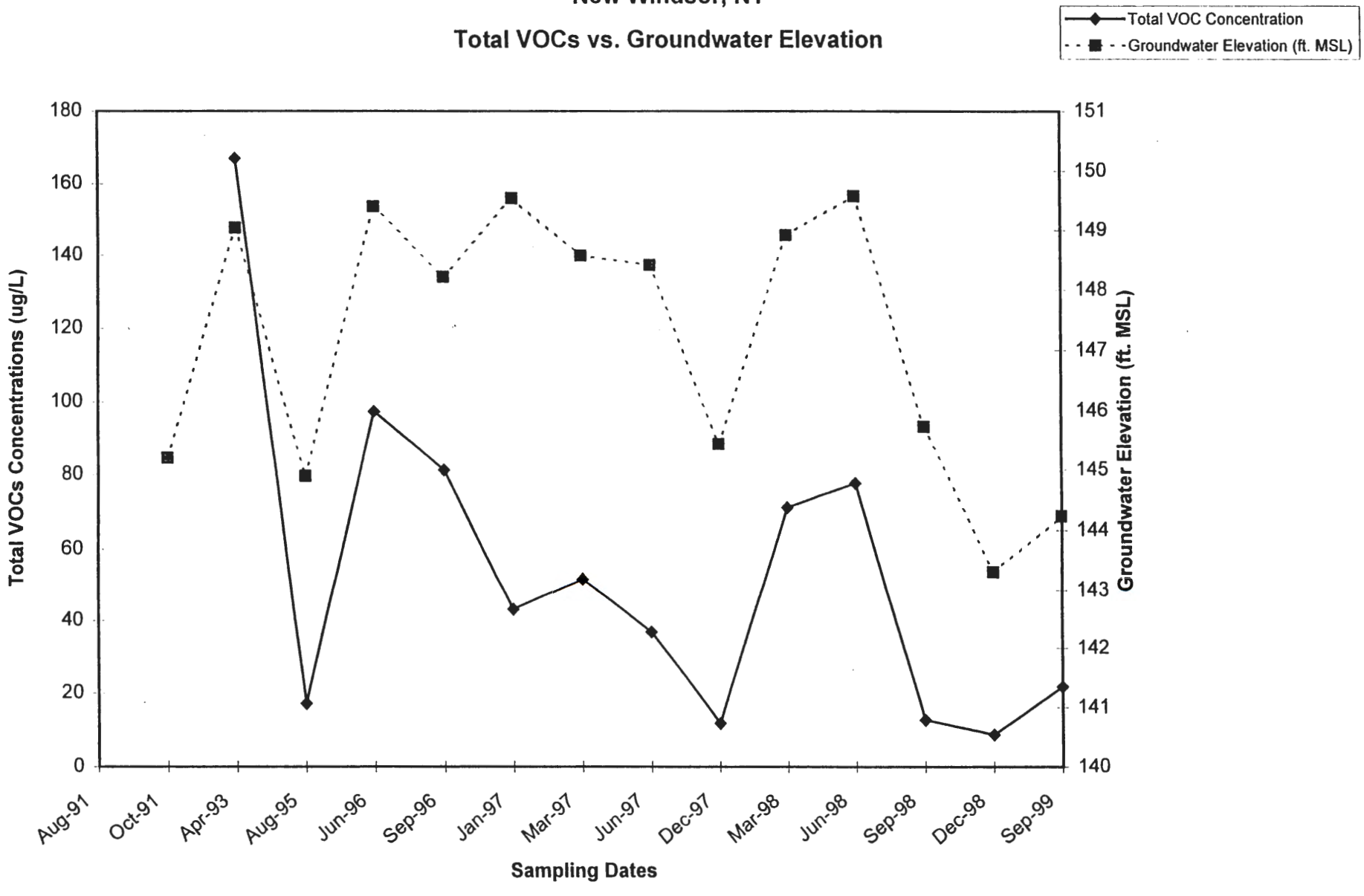


Table 3
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-3
Monarch Systems, Inc., New Windsor, New York

RIZ-3

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)						5.5				
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5		3.9		1.8 J	1.4 J					
1,2-Dichloroethane	5										
1,1-Dichloroethene	5		3.5								
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				6.1 B	3.6 JB	1.1 JB				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane (TCA)	5	75	56	14	10	1.9 J	5				
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	130	160	52	93	36	74	29			
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		205	223.4	66	110.9	42.9	85.6	29	NS	NS	NS
Well Elevation (ft. MSL)			152.41	152.41	152.41	152.41	152.41	152.41	152.41	152.41	152.41
Depth of Water (ft.)			8.64	5.55	8.69	5.04	5.56	4.89	5.72 NS	5.9	8
Groundwater Elevation (ft. MSL)			143.77	146.86	143.72	147.37	146.85	147.52	146.69	146.51	144.41

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 3
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-3
Monarch Systems, Inc., New Windsor, New York

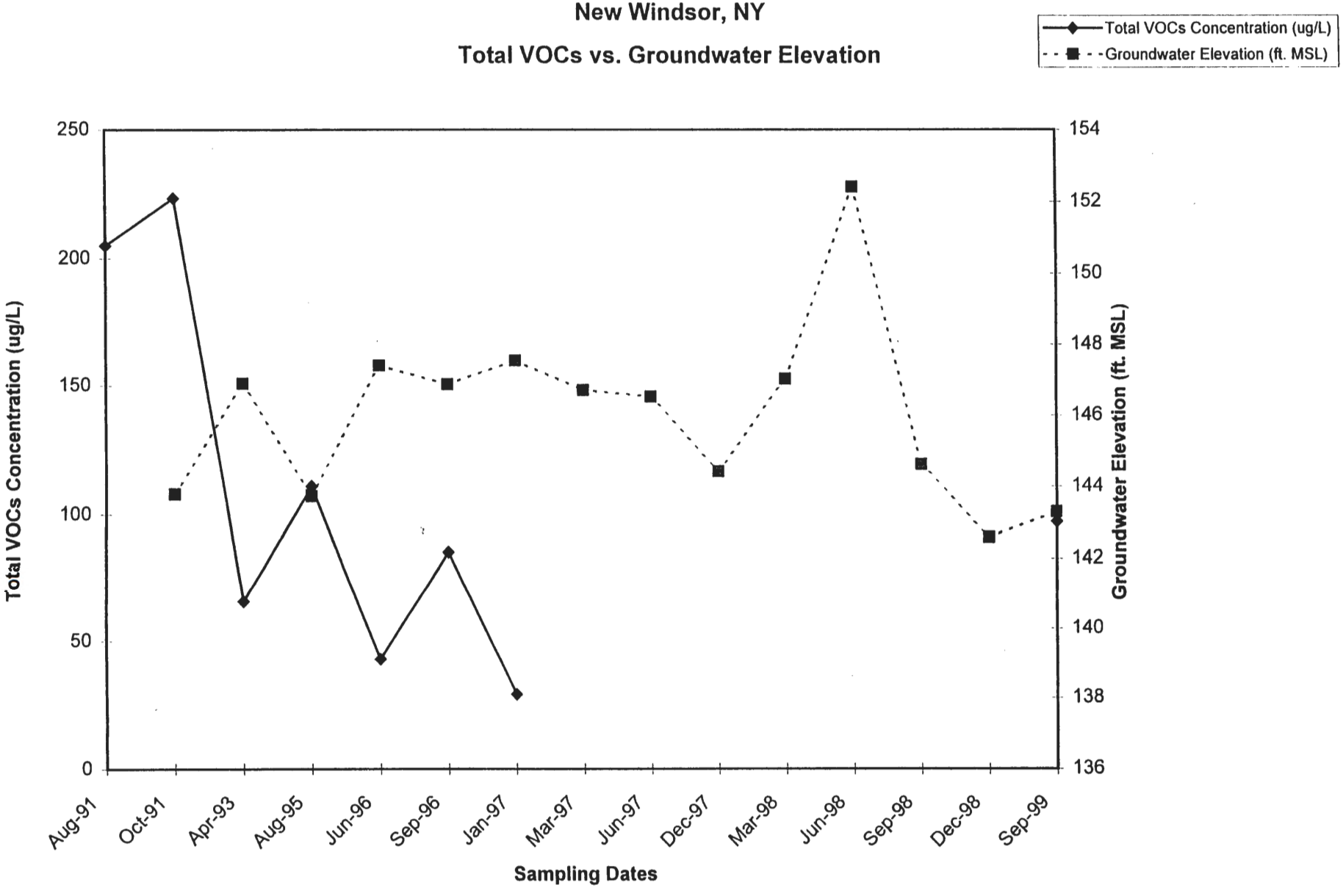
RIZ-3

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99													
Acetone	No Standard - 50 (guidance value)									2.5	J, B												
Benzene	0.7																						
Bromodichloromethane	Not Regulated																						
Bromoform	No Standard - 50 (guidance value)																						
Bromomethane	5									1.2	J, B												
2-Butanone (MEK)	No Standard - 50 (guidance value)																						
Carbon Disulfide	Not Regulated																						
Carbon Tetrachloride	5																						
Chlorobenzene	5																						
Chloroethane	5																						
2-Chloroethyl Vinyl Ether																							
Chloroform	7																						
Chloromethane	5																						
Dibromochloromethane	No Standard - 50 (guidance value)																						
1,1-Dichloroethane	5																						
1,2-Dichloroethane	5																						
1,1-Dichloroethene	5																						
trans-1,2-Dichloroethene	No Standard									1.2	J												
1,2-Dichloropropane	5																						
cis-1,3-Dichloropropene	5																						
trans-1,3-Dichloropropene	5																						
Ethylbenzene	5																						
2-Hexanone	No Standard - 50 (guidance value)																						
4-Methyl-2-Pentanone (M1BK)	Not Regulated																						
Methylene Chloride	5																						
Styrene	5																						
1,1,2,2-Tetrachloroethane	5																						
Tetrachloroethene	5																						
Toluene	5																						
1,1,1-Trichloroethane (TCA)	5									3.6	J												
1,1,2-Trichloroethane	5																						
Trichloroethene (TCE)	5									89													
Vinyl Acetate	Not Regulated																						
Vinyl Chloride	2																						
Xylenes (Total)	5																						
TOTAL VOCs			NS		NS		NS		NS	97.5													
Well Elevation (ft. MSL)		152.41		152.41		152.41		152.41		152.41													
Depth of Water (ft.)		5.4		0		7.8		9.83		9.11													
Groundwater Elevation (ft. MSL)		147.01		152.41		144.61		142.58		143.3													

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-3
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch1

Table 4
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-4
Monarch Systems, Inc., New Windsor, New York

RIZ-4

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)						600				
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5		6.1								
1,2-Dichloroethane	5										
1,1-Dichloroethene	5	210	34		13 JD						
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				45 JBD	310 JBD	130 JB				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5	9.2	3.4								
Toluene	5										
1,1,1-Trichloroethane (TCA)	5	2,400	1,300	5,000	780 D	7800 D	12000	7200	14000	7800	1000
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	450	350	31,200	1,700 BD	16000 D	12000 D	15000	19000	12000	3700
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		3069.2	1693.5	36200	2538	24110	24730	22200	33000	19800	4700
Well Elevation (ft. MSL)			158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9
Depth of Water (ft.)			15.5	11.56	15.47	11.15	11.97	10.81	11.69	11.84	15.12
Groundwater Elevation (ft. MSL)			143.4	147.34	143.43	147.75	146.93	148.09	147.21	147.06	143.78

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 4

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-4
Monarch Systems, Inc., New Windsor, New York

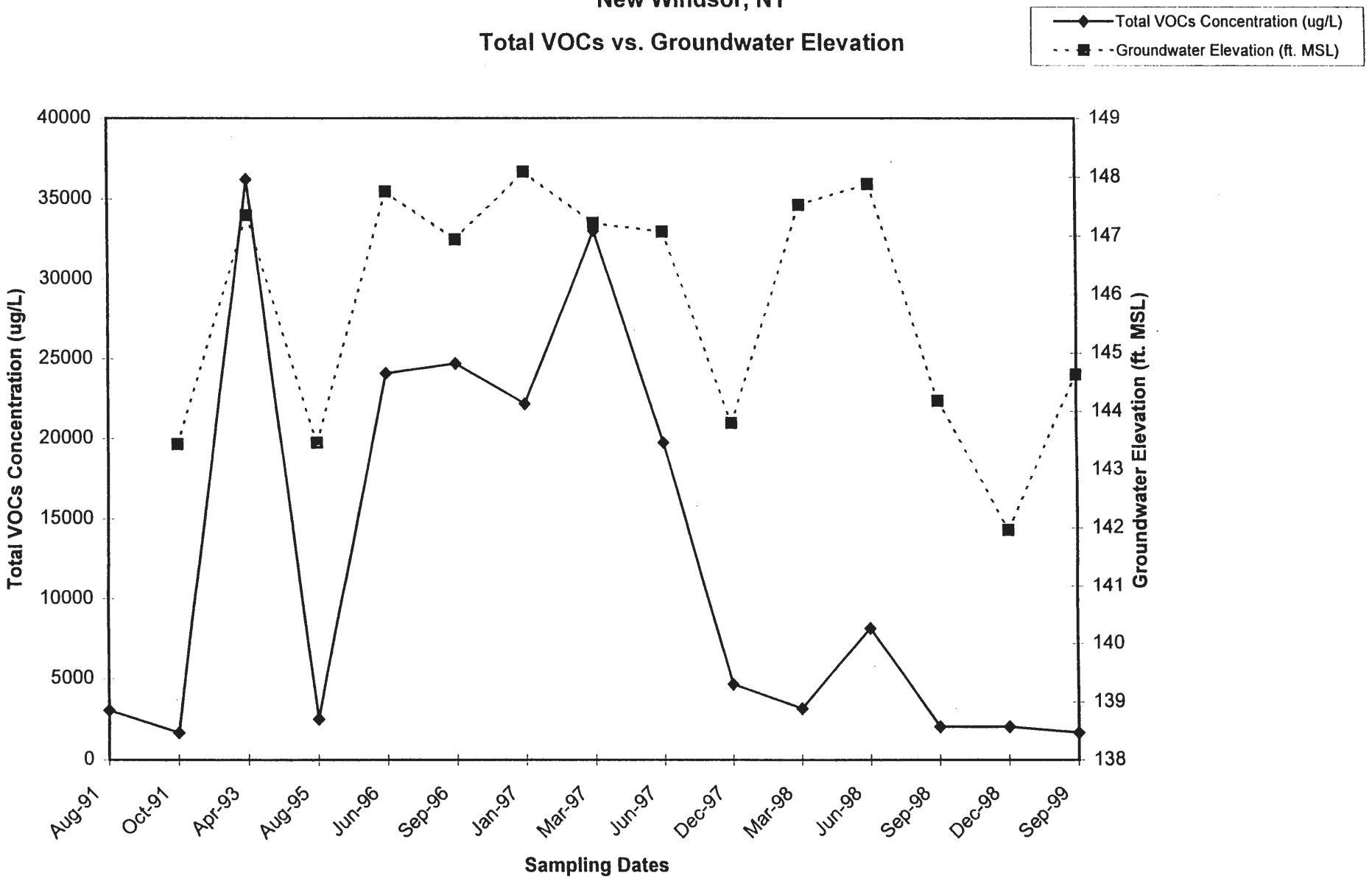
RIZ-4

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99											
Acetone	No Standard - 50 (guidance value)					1.6	J, B										
Benzene	0.7																
Bromodichloromethane	Not Regulated																
Bromoform	No Standard - 50 (guidance value)																
Bromomethane	5					1	J, B										
2-Butanone (MEK)	No Standard - 50 (guidance value)					38	J										
Carbon Disulfide	Not Regulated																
Carbon Tetrachloride	5																
Chlorobenzene	5																
Chloroethane	5																
2-Chloroethyl Vinyl Ether																	
Chloroform	7																
Chloromethane	5																
Dibromochloromethane	No Standard - 50 (guidance value)																
1,1-Dichloroethane	5					5.8	J										
1,2-Dichloroethane	5																
1,1-Dichloroethene	5					11											
trans-1,2-Dichloroethene	No Standard																
1,2-Dichloropropane	5																
cis-1,3-Dichloropropene	5																
trans-1,3-Dichloropropene	5																
Ethylbenzene	5																
2-Hexanone	No Standard - 50 (guidance value)																
4-Methyl-2-Pentanone (M1BK)	Not Regulated																
Methylene Chloride	5																
Styrene	5																
1,1,2,2-Tetrachloroethane	5																
Tetrachloroethene	5					6.2	J										
Toluene	5																
1,1,1-Trichloroethane (TCA)	5	920	2000	390	390	360	E										
1,1,2-Trichloroethane	5																
Trichloroethene (TCE)	5	2300	6200	1700	1700	1300	E										
Vinyl Acetate	Not Regulated																
Vinyl Chloride	2																
Xylenes (Total)	5																
TOTAL VOCs		3220	8200	2090	2090	1723.6											
Well Elevation (ft. MSL)		158.9	158.9	158.9	158.9	158.9											
Depth of Water (ft.)		11.38	11.02	14.73	16.94	14.27											
Groundwater Elevation (ft. MSL)		147.52	147.88	144.17	141.96	144.63											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

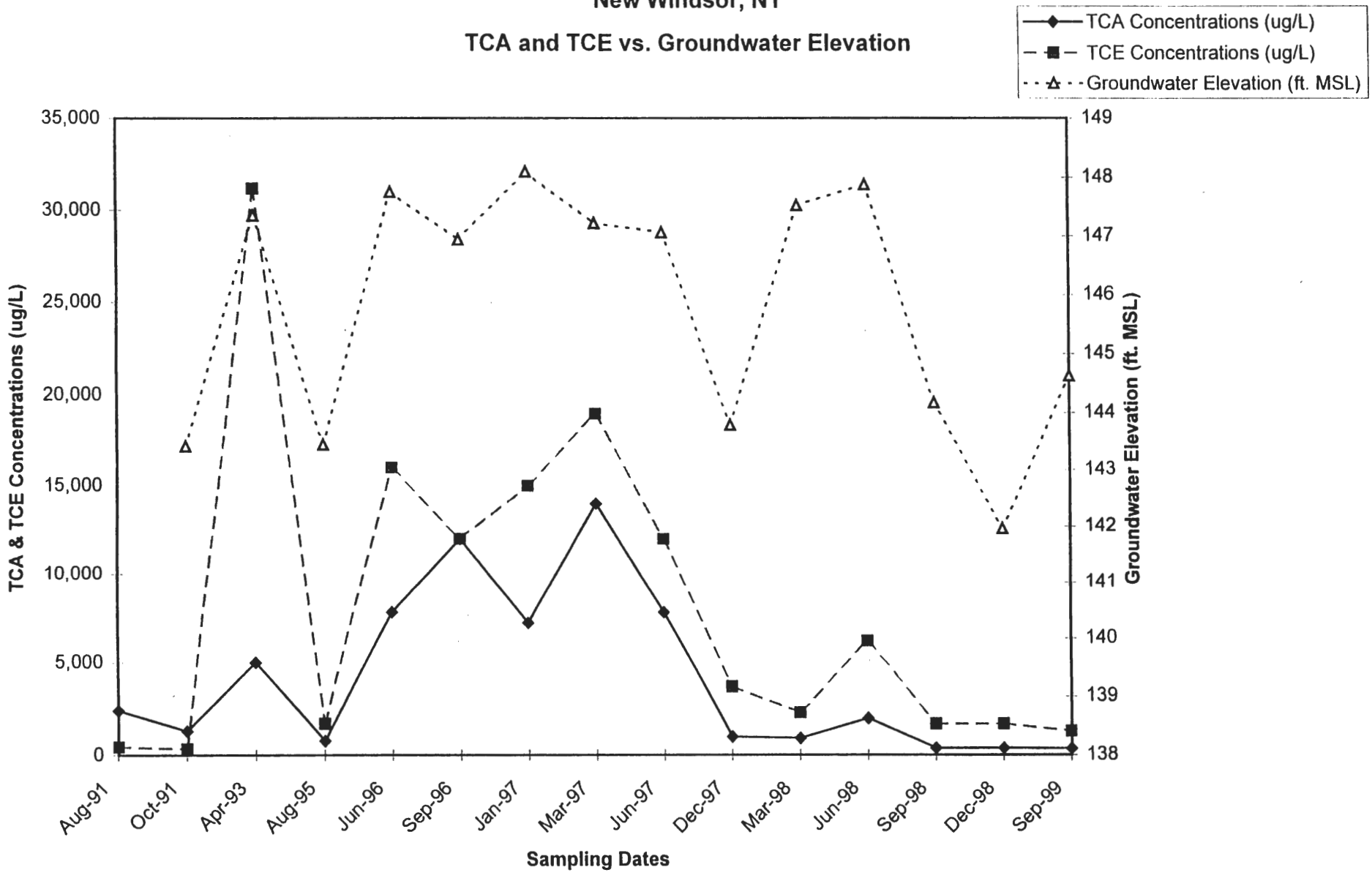
RIZ-4
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



RIZ-4
Monarch Systems, Inc.
New Windsor, NY

TCA and TCE vs. Groundwater Elevation



Monarch1

Table 3
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-5
Monarch Systems, Inc., New Windsor, New York

RIZ-5

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7								3.1 J		
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										1.4 J
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5										
1,2-Dichloroethane	5										
1,1-Dichloroethene	5	8.4	6.5								
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				3.6 JB	1.3 J	3.3 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane (TCA)	5	190	150	380	7.8	12	13	7.5	5.9	9.1	2.3 J
1,1,2-Trichloroethane	5										5.2
Trichloroethene (TCE)	5				30	44	53	38	25	52	24
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		198.4	156.5	380	41.4	57.3	69.3	45.5	34	61.1	32.9
Well Elevation (ft. MSL)			154.88	154.88	154.88	154.88	154.88	154.88	154.88	154.88	154.88
Depth of Water (ft.)			11.46	7.35	11.5	7.1	7.93	6.72	7.52	7.77	11.2
Groundwater Elevation (ft. MSL)			143.42	147.53	143.38	147.78	146.95	148.16	147.36	147.11	143.68

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 3

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-5
Monarch Systems, Inc., New Windsor, New York

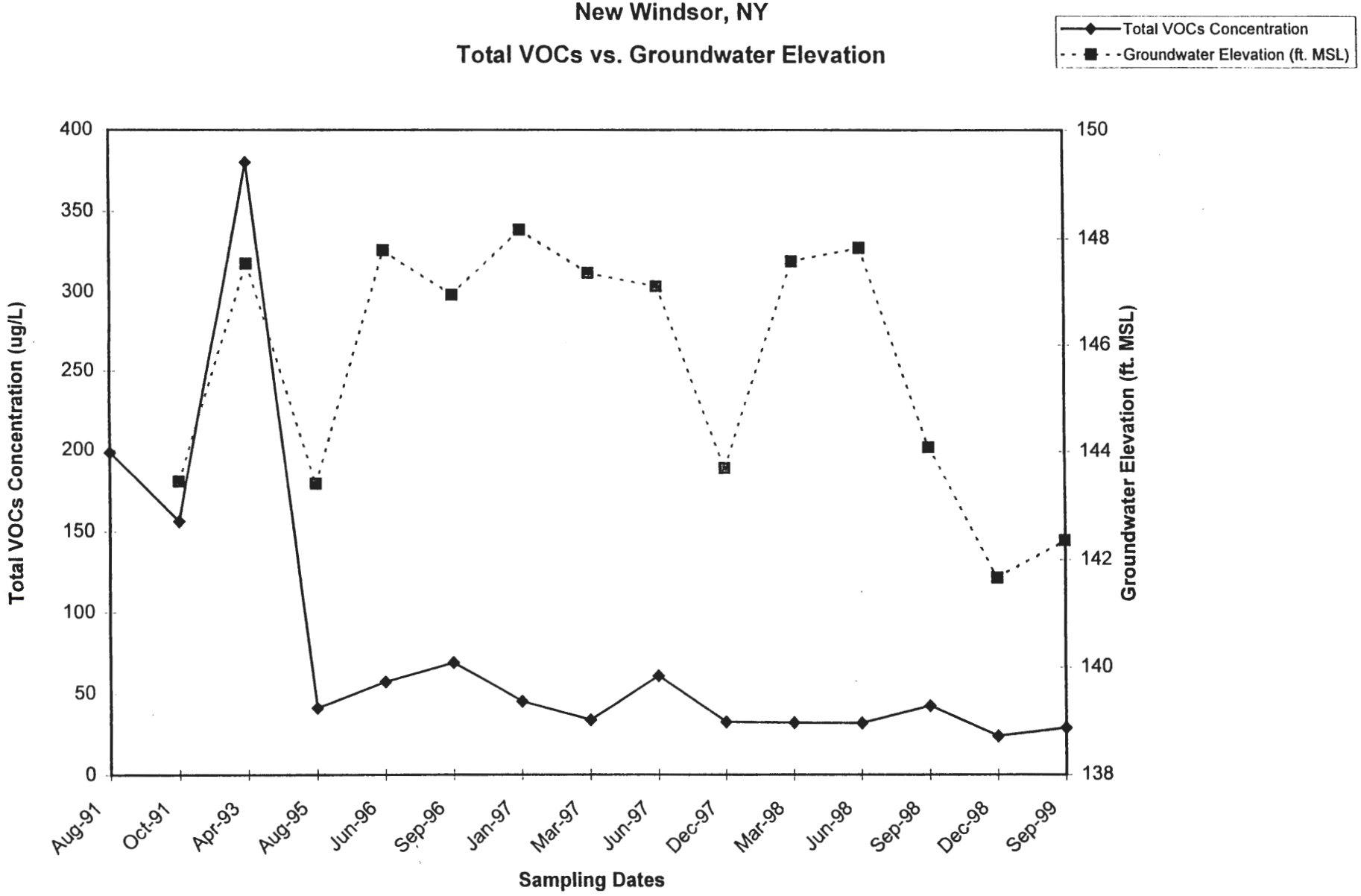
RIZ-5

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99											
Acetone	No Standard - 50 (guidance value)					3.4	J, B										
Benzene	0.7																
Bromodichloromethane	Not Regulated																
Bromoform	No Standard - 50 (guidance value)																
Bromomethane	5																
2-Butanone (MEK)	No Standard - 50 (guidance value)																
Carbon Disulfide	Not Regulated																
Carbon Tetrachloride	5																
Chlorobenzene	5																
Chloroethane	5																
2-Chloroethyl Vinyl Ether																	
Chloroform	7																
Chloromethane	5																
Dibromochloromethane	No Standard - 50 (guidance value)																
1,1-Dichloroethane	5																
1,2-Dichloroethane	5																
1,1-Dichloroethene	5																
trans-1,2-Dichloroethene	No Standard																
1,2-Dichloropropane	5																
cis-1,3-Dichloropropene	5																
trans-1,3-Dichloropropene	5																
Ethylbenzene	5																
2-Hexanone	No Standard - 50 (guidance value)																
4-Methyl-2-Pentanone (M1BK)	Not Regulated																
Methylene Chloride	5																
Styrene	5																
1,1,2,2-Tetrachloroethane	5																
Tetrachloroethene	5																
Toluene	5																
1,1,1-Trichloroethane (TCA)	5	6.4	4.3	J	4	J	2.2	J	3	J							
1,1,2-Trichloroethane	5																
Trichloroethene (TCE)	5	26	28		39		22		23								
Vinyl Acetate	Not Regulated																
Vinyl Chloride	2																
Xylenes (Total)	5																
TOTAL VOCs		32.4	32.3		43		24.2		29.4								
Well Elevation (ft. MSL)		154.88	154.88		154.88		154.88		154.88								
Depth of Water (ft.)		7.3	7.05		10.8		13.21		12.52								
Groundwater Elevation (ft. MSL)		147.58	147.83		144.08		141.67		142.36								

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-5
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch1

Table 6
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-6
Monarch Systems, Inc., New Windsor, New York

RIZ-6

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)			260			9.3 B				
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5										
1,2-Dichloroethane	5										
1,1-Dichloroethene	5										
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				1.6 JB	1.4 J	2 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5				1.4 J						
Toluene	5										
1,1,1-Trichloroethane (TCA)	5										
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5					1.9 J					
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		NS	NS	260	3	3.3	11.3	0	0	0	0
Well Elevation (ft. MSL)			154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4	154.4
Depth of Water (ft.)			8.39	4.39	8.87	4.24	5.32	4.29	5.4	5.44	8.1
Groundwater Elevation (ft. MSL)			146.01	150.01	145.53	150.16	149.08	150.11	149	148.96	146.3

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 6
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-6
Monarch Systems, Inc., New Windsor, New York

RIZ-6

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99											
Acetone	No Standard - 50 (guidance value)	26 J				1.7 J, B											
Benzene	0.7																
Bromodichloromethane	Not Regulated																
Bromoform	No Standard - 50 (guidance value)																
Bromomethane	5																
2-Butanone (MEK)	No Standard - 50 (guidance value)																
Carbon Disulfide	Not Regulated																
Carbon Tetrachloride	5																
Chlorobenzene	5																
Chloroethane	5																
2-Chloroethyl Vinyl Ether																	
Chloroform	7																
Chloromethane	5																
Dibromochloromethane	No Standard - 50 (guidance value)																
1,1-Dichloroethane	5																
1,2-Dichloroethane	5																
1,1-Dichloroethene	5																
trans-1,2-Dichloroethene	No Standard																
1,2-Dichloropropane	5																
cis-1,3-Dichloropropene	5																
trans-1,3-Dichloropropene	5																
Ethylbenzene	5																
2-Hexanone	No Standard - 50 (guidance value)																
4-Methyl-2-Pentanone (M1BK)	Not Regulated																
Methylene Chloride	5																
Styrene	5																
1,1,2,2-Tetrachloroethane	5																
Tetrachloroethene	5				1.2 J	1.5 J											
Toluene	5																
1,1,1-Trichloroethane (TCA)	5																
1,1,2-Trichloroethane	5																
Trichloroethene (TCE)	5					1 J											
Vinyl Acetate	Not Regulated																
Vinyl Chloride	2																
Xylenes (Total)	5																
TOTAL VOCs		26	0	0	1.2	4.2											
Well Elevation (ft. MSL)		154.4	154.4	154.4	154.4	154.4											
Depth of Water (ft.)		4.66	3.73	7.91	10.31	9.1											
Groundwater Elevation (ft. MSL)		149.74	150.67	146.49	144.09	145.3											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-6
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

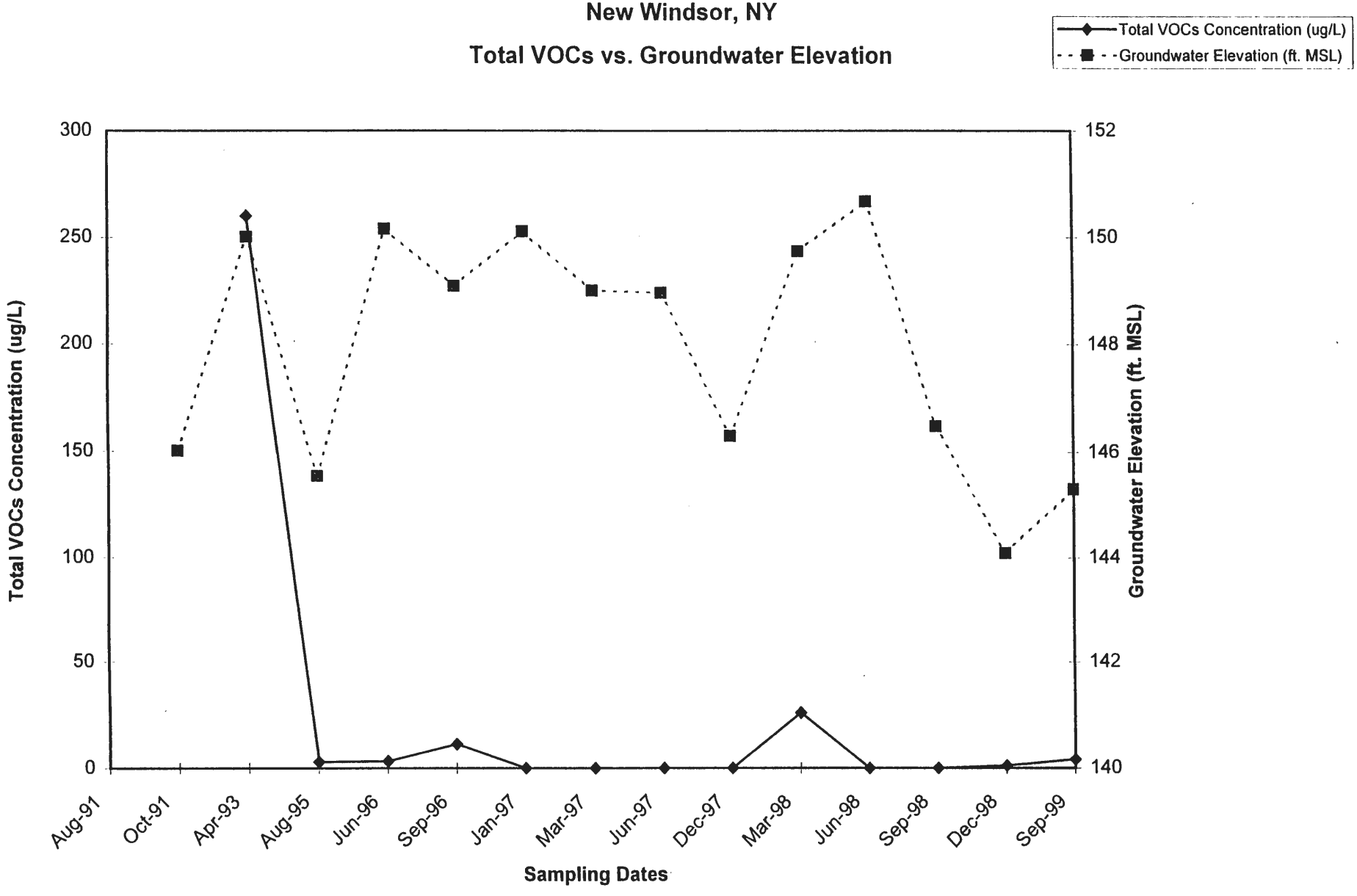


Table 1
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-7
Monarch Systems, Inc., New Windsor, New York

RIZ-7																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91		Oct-91		Apr-93		Aug-95		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97	
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																			1.2	J
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard													2.1	J	2.3	J	2.2	J	1.6	J
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							2.7	JB	1.6	J	3.1	J								
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5							1.2	J												
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	11				6.9		8.7		8.5		7.8		6.8		9.7		9.8		4.2 4.6	J J
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		11			NS	6.9		12.6		10.1		10.9		8.9		12		12		11.6	
Well Elevation (ft. MSL)				148.01		148.01		148.01		148.01		148.01		148.01		148.01		148.01		148.01	
Depth of Water (ft.)				4.14		1.65		4.52		1.15		1.47		1.11		1.91		1.96		3.8	
Groundwater Elevation (ft. MSL)				143.87		146.36		143.49		146.86		146.54		146.9		146.1		146.05		144.21	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 7
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-7
Monarch Systems, Inc., New Windsor, New York

RIZ-7																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)									1.6	J, B										
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard	2	J	1.3	J	2.7	J	1.6	J, B	1.9	J										
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	1.1	J			1	J														
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	5.5		5.2		6.8	J	3.7	J	5.8	J										
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		8.6		6.5		10.5		5.3		9.3											
Well Elevation (ft. MSL)		148.01		148.01		148.01		148.01		148.01											
Depth of Water (ft.)		1.06		0.94		3.81		5.58		4.9											
Groundwater Elevation (ft. MSL)		146.95		147.07		144.2		142.43		143.11											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-7
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

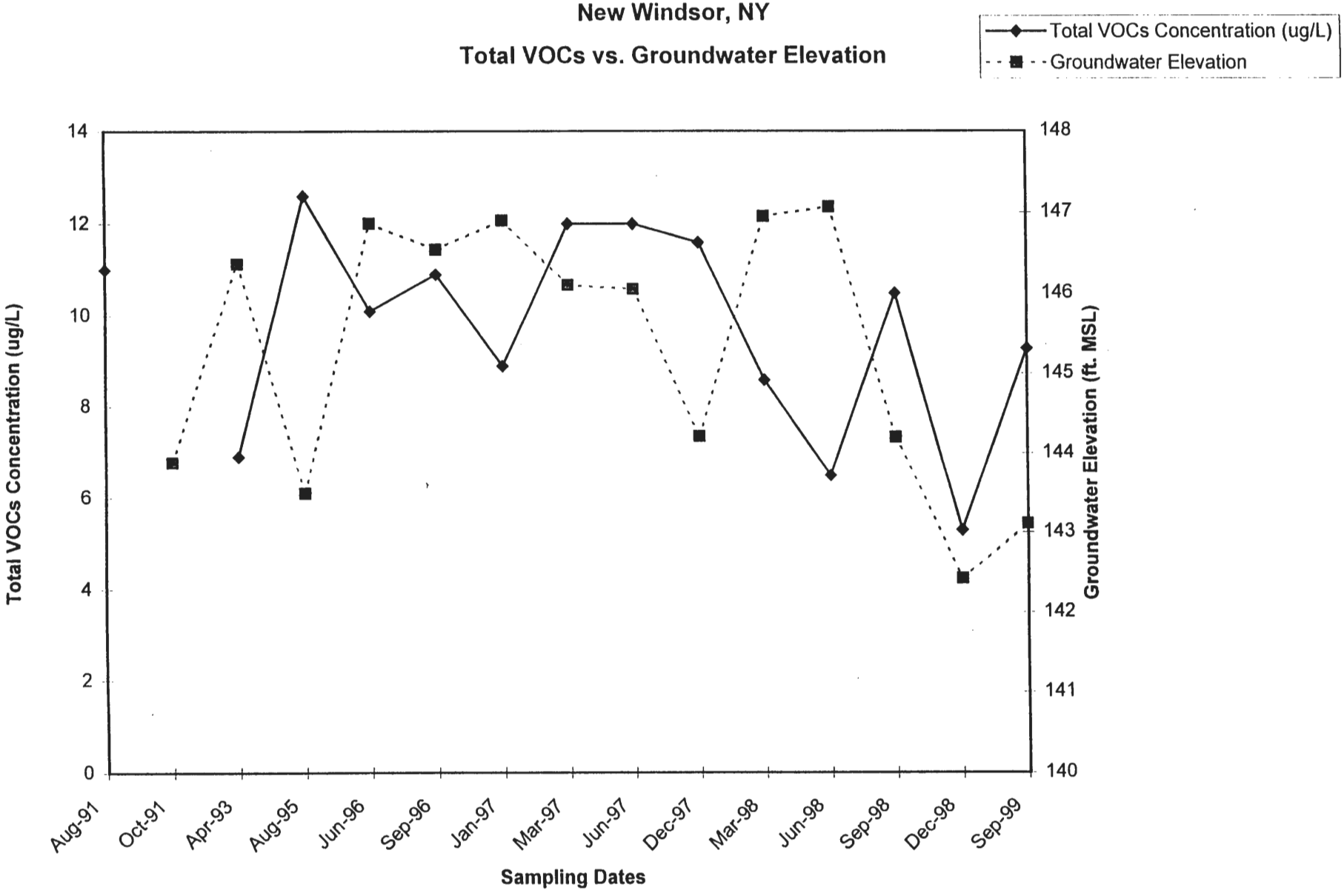


Table 8
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-8
Monarch Systems, Inc., New Windsor, New York

RIZ-8

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5								2.4 J		1.5 J
1,2-Dichloroethane	5										
1,1-Dichloroethene	5	26	39	63	38 JD	52 D	32 D	38	14	30	
trans-1,2-Dichloroethene	No Standard							3 J		1.7 J	
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				49 JBD	37 JBD	15 JD				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5				15 JD						
Toluene	5							2.6 J			
1,1,1-Trichloroethane (TCA)	5	650	1,800	1,800	740 D	600 D	340 D	320	150	280	
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	53	88	79	60 BD	120 D	65 D	83	38	90	1.9 J
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		729	1927	1942	902	809	452	446.6	204.4	401.7	3.4
Well Elevation (ft. MSL)			143.63	143.63	143.63	143.63	143.63	143.63	143.63	143.63	143.63
Depth of Water (ft.)			2.6	0.85	3.25	0.87	0.32	0.13	0.4	0.91	1.87
Groundwater Elevation (ft. MSL)			141.03	142.78	140.38	142.76	143.31	143.5	143.23	142.72	141.76

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 8
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-8
Monarch Systems, Inc., New Windsor, New York

RIZ-8

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99											
Acetone	No Standard - 50 (guidance value)					5	J, B										
Benzene	0.7																
Bromodichloromethane	Not Regulated																
Bromoform	No Standard - 50 (guidance value)																
Bromomethane	5																
2-Butanone (MEK)	No Standard - 50 (guidance value)					1.9	J										
Carbon Disulfide	Not Regulated																
Carbon Tetrachloride	5																
Chlorobenzene	5																
Chloroethane	5																
2-Chloroethyl Vinyl Ether																	
Chloroform	7																
Chloromethane	5																
Dibromochloromethane	No Standard - 50 (guidance value)																
1,1-Dichloroethane	5	1.5	J	3.3	J	3.1	J	1.5	J								
1,2-Dichloroethane	5																
1,1-Dichloroethene	5	6	13	19		4.2	J	1.9	J								
trans-1,2-Dichloroethene	No Standard			3.6	J												
1,2-Dichloropropane	5																
cis-1,3-Dichloropropene	5																
trans-1,3-Dichloropropene	5																
Ethylbenzene	5																
2-Hexanone	No Standard - 50 (guidance value)																
4-Methyl-2-Pentanone (M1BK)	Not Regulated																
Methylene Chloride	5																
Styrene	5																
1,1,2,2-Tetrachloroethane	5																
Tetrachloroethene	5																
Toluene	5																
1,1,1-Trichloroethane (TCA)	5	69	130	160		29		12									
1,1,2-Trichloroethane	5																
Trichloroethene (TCE)	5	13	55	68		11		8.2	J								
Vinyl Acetate	Not Regulated																
Vinyl Chloride	2																
Xylenes (Total)	5																
TOTAL VOCs		89.5	198	253.9		47.3		30.5									
Well Elevation (ft. MSL)		143.63	143.63	143.63		143.63		143.63									
Depth of Water (ft.)		0.3	0.56	2.24		3.18		2.94									
Groundwater Elevation (ft. MSL)		143.33	143.07	141.39		140.45		140.69									

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-8
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

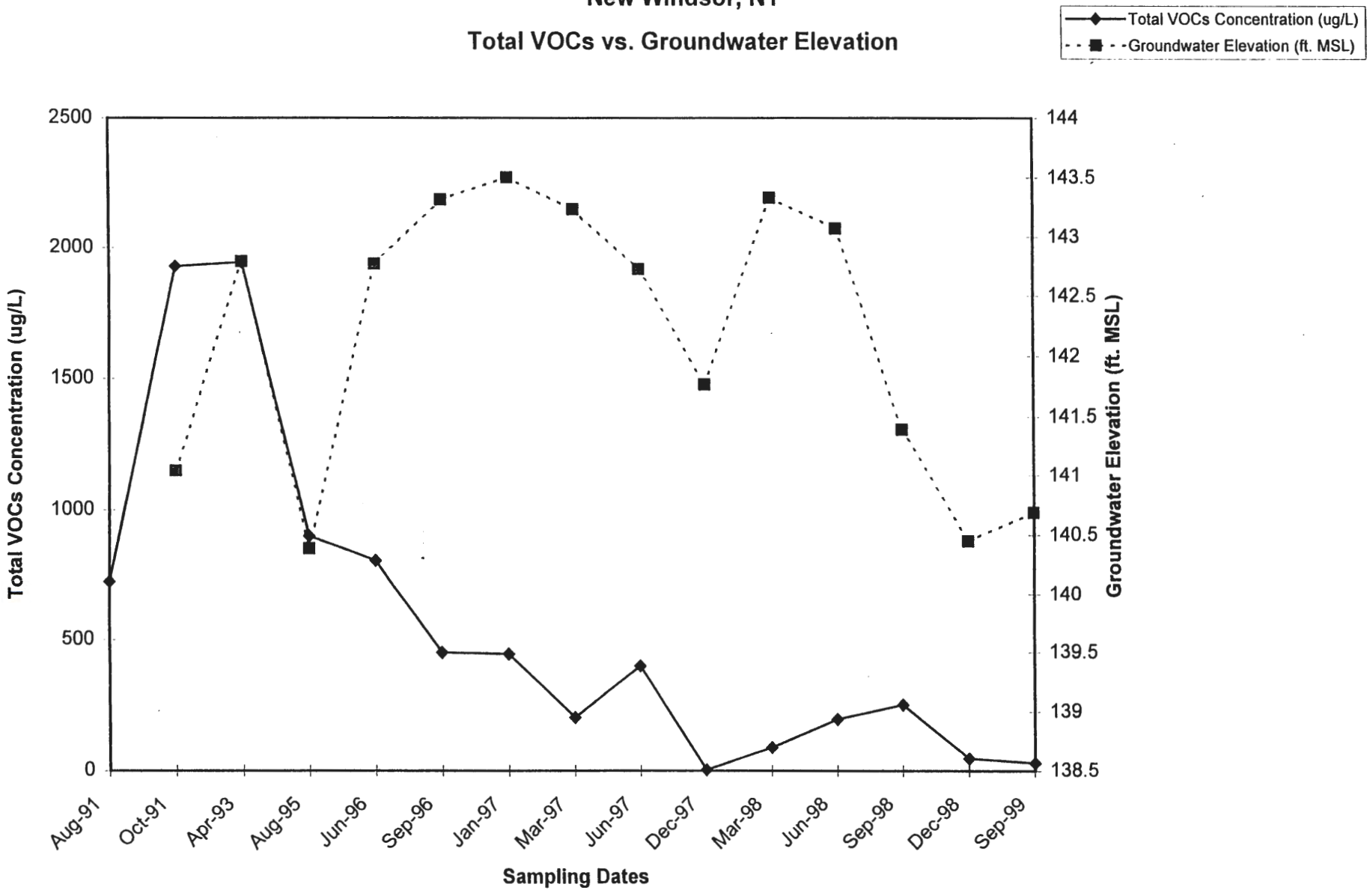


Table 9
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-9
Monarch Systems, Inc., New Windsor, New York

RIZ-9

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91		Oct-91		Apr-93		Aug-95		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97	
Acetone	No Standard - 50 (guidance value)							970	D												
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							46	JBD	3.4	JB	3.6	J								
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5																				
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS	0		1016		3.4		3.6		0			NS		NS		NS
Well Elevation (ft. MSL)				161.7		161.7		161.7		161.7		161.7		161.7		161.7		161.7		161.7	
Depth of Water (ft.)				15.86		11.85		16.68		11.75		13		11.47		12.52		12.79		16.13	
Groundwater Elevation (ft. MSL)				145.84		149.85		145.02		149.95		148.7		150.23		149.18		148.91		145.57	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

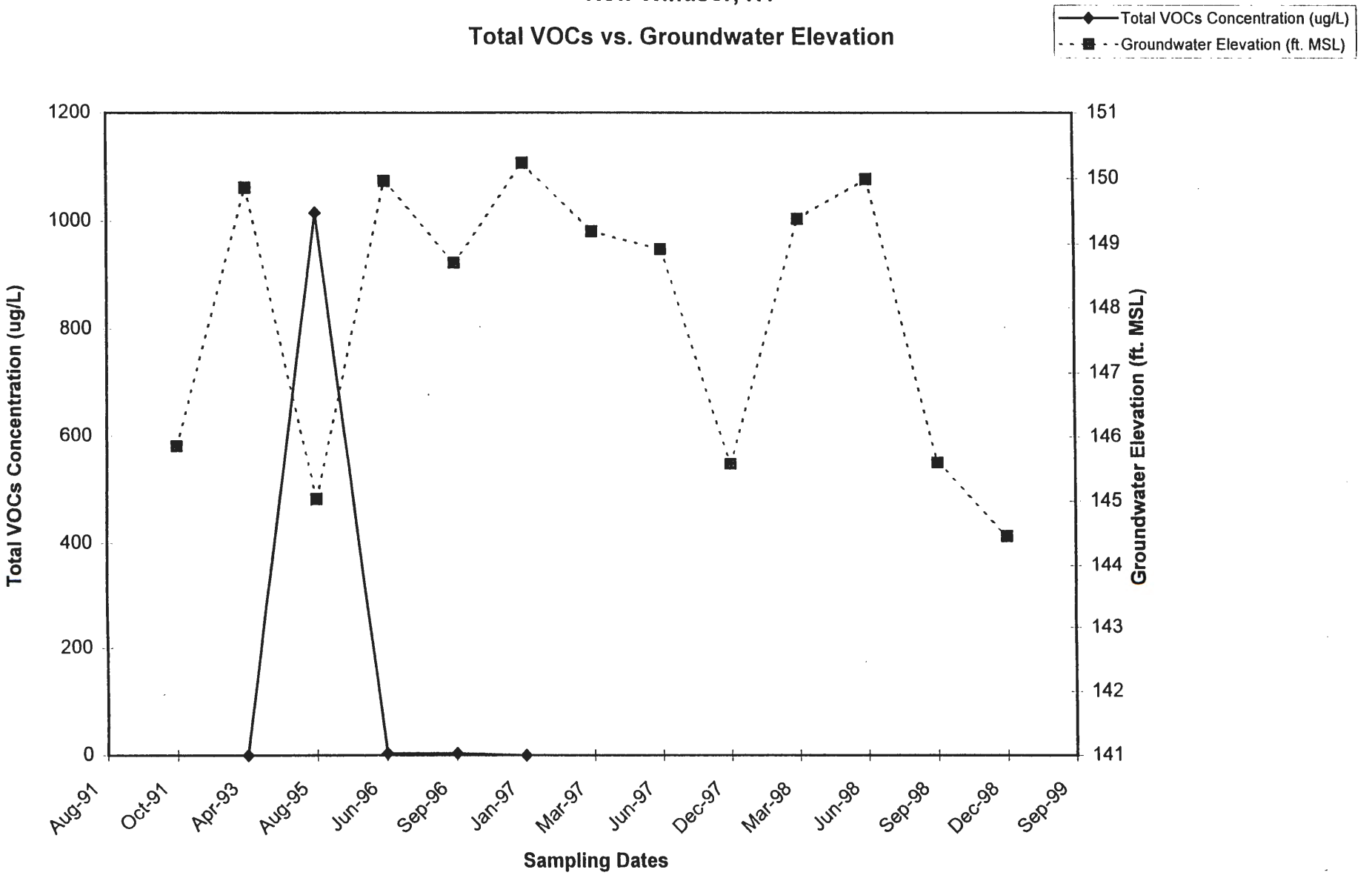
Table 9
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-9
Monarch Systems, Inc., New Windsor, New York

RIZ-9																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5																				
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS		NS		NS		NS										
Well Elevation (ft. MSL)		161.7		161.7		161.7		161.7		161.7											
Depth of Water (ft.)		12.32		11.71		16.11		17.24		DRY											
Groundwater Elevation (ft. MSL)		149.38		149.99		145.59		144.46													

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-9
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch1

Table 10
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-10
Monarch Systems, Inc., New Windsor, New York

RIZ-10

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)				510 D						
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5	2									
1,2-Dichloroethane	5										
1,1-Dichloroethene	5										
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				20 JBD	2.8 JB	3 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane (TCA)	5	2.4									
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	6.4		6	6.2 JD	5	6.7 J	5.9			
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		**10.8**	NS	**6**	**536.2**	**7.8**	**9.7**	**5.9**	NS	NS	NS
Well Elevation (ft. MSL)			160.56	160.56	160.56	160.56	160.56	160.56	160.56	160.56	160.56
Depth of Water (ft.)			14.07	10.71	16.28	11.12	12.45	10.65	11.68 NS	12.1	12.9
Groundwater Elevation (ft. MSL)			146.49	149.85	144.28	149.44	148.11	149.91	148.88	148.46	147.66

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 10
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-10
Monarch Systems, Inc., New Windsor, New York

	RIZ-10																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99														
Acetone	No Standard - 50 (guidance value)																							
Benzene	0.7																							
Bromodichloromethane	Not Regulated																							
Bromoform	No Standard - 50 (guidance value)																							
Bromomethane	5																							
2-Butanone (MEK)	No Standard - 50 (guidance value)																							
Carbon Disulfide	Not Regulated																							
Carbon Tetrachloride	5																							
Chlorobenzene	5																							
Chloroethane	5																							
2-Chloroethyl Vinyl Ether																								
Chloroform	7																							
Chloromethane	5																							
Dibromochloromethane	No Standard - 50 (guidance value)																							
1,1-Dichloroethane	5																							
1,2-Dichloroethane	5																							
1,1-Dichloroethene	5																							
trans-1,2-Dichloroethene	No Standard																							
1,2-Dichloropropane	5																							
cis-1,3-Dichloropropene	5																							
trans-1,3-Dichloropropene	5																							
Ethylbenzene	5																							
2-Hexanone	No Standard - 50 (guidance value)																							
4-Methyl-2-Pentanone (M1BK)	Not Regulated																							
Methylene Chloride	5																							
Styrene	5																							
1,1,2,2-Tetrachloroethane	5																							
Tetrachloroethene	5																							
Toluene	5																							
1,1,1-Trichloroethane (TCA)	5																							
1,1,2-Trichloroethane	5																							
Trichloroethene (TCE)	5																							
Vinyl Acetate	Not Regulated																							
Vinyl Chloride	2																							
Xylenes (Total)	5																							
TOTAL VOCs			NS		NS		NS		NS		NS													
Well Elevation (ft. MSL)		160.56		160.56		160.56		160.56																
Depth of Water (ft.)		11.51		11.1		15.71		DRY		DRY														
Groundwater Elevation (ft. MSL)		149.05		149.46		144.85																		

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-10
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

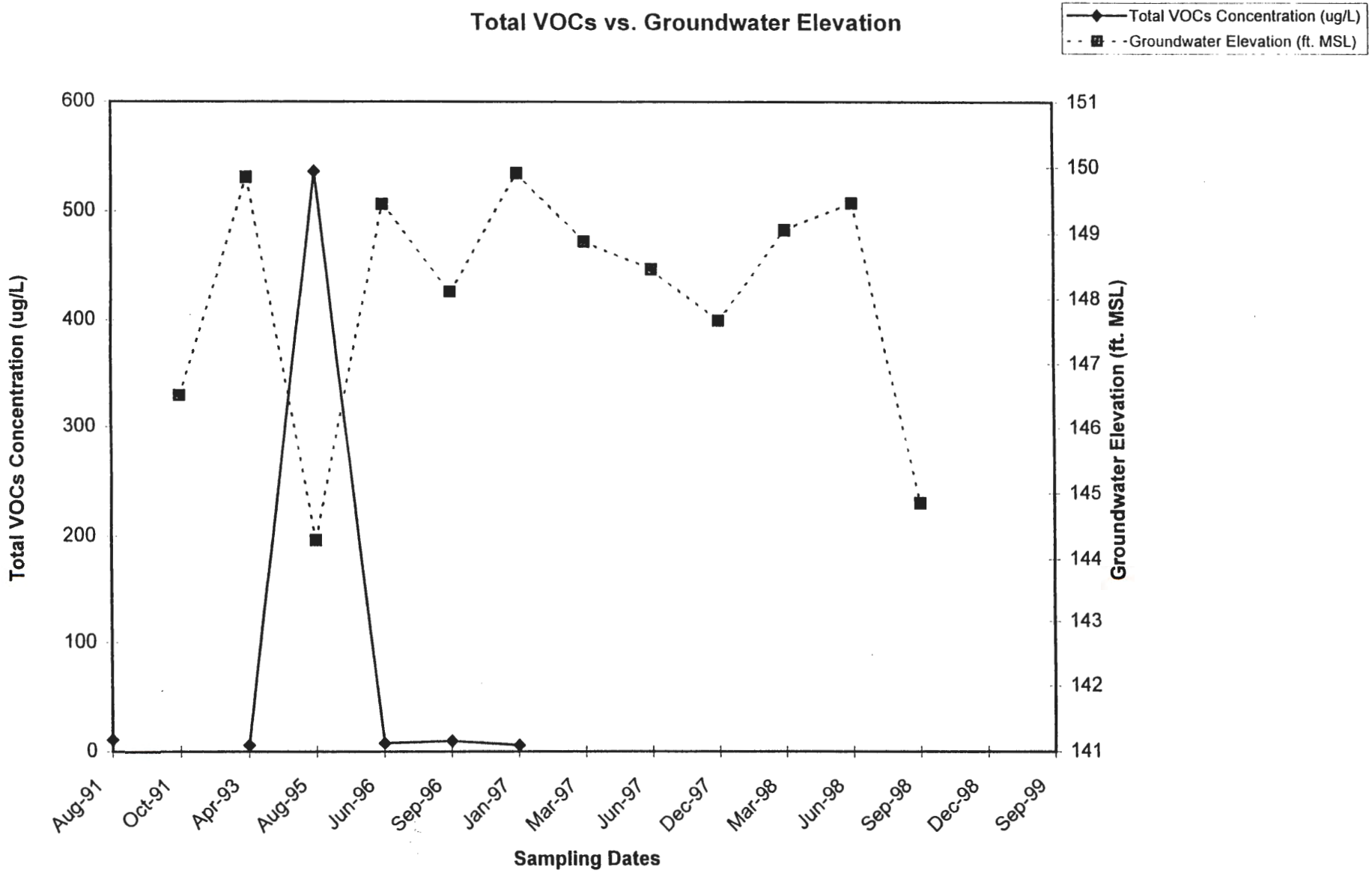


Table 11
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-15
Monarch Systems, Inc., New Windsor, New York

RIZ-15																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91		Oct-91		Apr-93		Aug-95		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97	
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5					15															
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							8.3	B	1.6	J										
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5					16		1.2	J	1	J										
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5					680		5.4		3.3	J	4		3.9	J						
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5					840		30		38		28		28							
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS	1551		44.9		43.9		32		31.9			NS		NS		NS
Well Elevation (ft. MSL)						159.23		159.23		159.23		159.23		159.23		159.23		159.23		159.23	
Depth of Water (ft.)						10.05		14.48		9.8		10.85		9.45		10.87		10.68		14.17	
Groundwater Elevation (ft. MSL)						149.18		144.75		149.43		148.38		149.78		148.36		148.55		145.06	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 1

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-15
Monarch Systems, Inc., New Windsor, New York

RIZ-15																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5																				
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS		NS		NS		NS										
Well Elevation (ft. MSL)		159.23		159.23		159.23		159.23		159.23											
Depth of Water (ft.)			1B		1B		1B		1B		1B										
Groundwater Elevation (ft. MSL)																					

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-15
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

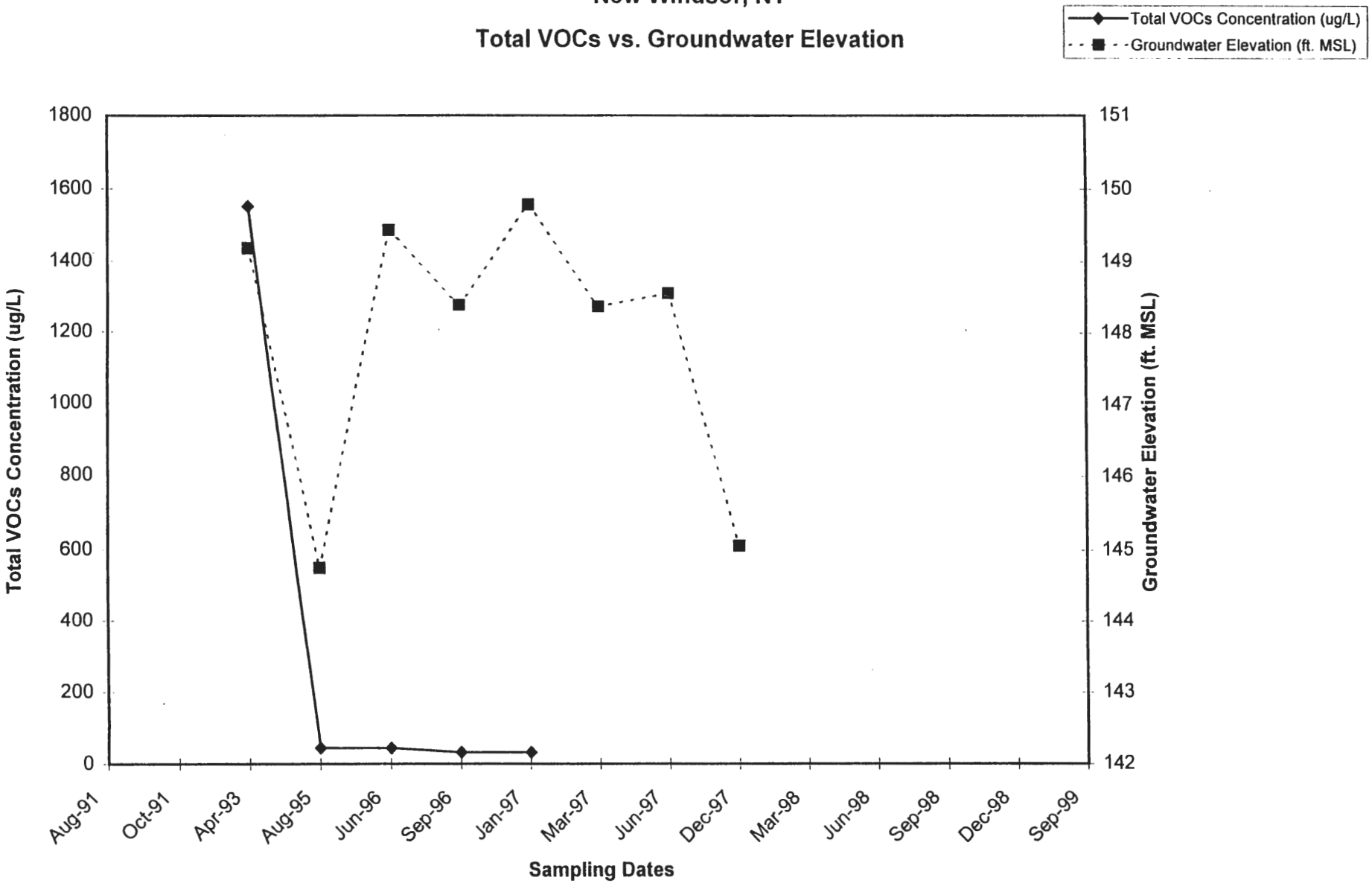


Table 12
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-16
Monarch Systems, Inc., New Windsor, New York

RIZ-16

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5										
1,2-Dichloroethane	5			12							
1,1-Dichloroethene	5			68							
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				24 JBD	1.5 J	11 JD				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5			56		3.1 J	6.6 D				
Toluene	5										
1,1,1-Trichloroethane (TCA)	5			2,900	47 D	24	38 D	14	7.6	18	12
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5			5,400	370 BD	150	430 D	240	110	200	92
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		NS	NS	8436	441	178.6	485.6	254	117.6	218	104
Well Elevation (ft. MSL)				159.25	159.25	159.25	159.25	159.25	159.25	159.25	159.25
Depth of Water (ft.)				10.74	14.93	10.46	11.73	10.13	11.04	11.14	14.7
Groundwater Elevation (ft. MSL)				148.51	144.32	148.79	147.52	149.12	148.21	148.11	144.55

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 12
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-16
Monarch Systems, Inc., New Windsor, New York

RIZ-16

VOCs (ug/l)	Groundwater Quality *Standard* Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98	Jun-98	Sep-98	Dec-98	Sep-99															
Acetone	No Standard - 50 (guidance value)					3.1	J,B														
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	3.3	J			1.8	J			1.7	J										
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5	37		6.9		21		10		34											
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	360	E	95		180		110		150											
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		**400.3**		**101.9**		**202.8**		**120**		**188.8**											
Well Elevation (ft. MSL)		159.25		159.25		159.25		159.25		159.25											
Depth of Water (ft.)		10.71		10.22		14.16		16.32		15.75											
Groundwater Elevation (ft. MSL)		148.54		149.03		145.09		142.93		143.5											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-16
Monarch Systems, Inc.
New Windsor, NY

Total VOCs Concentration (ug/L)

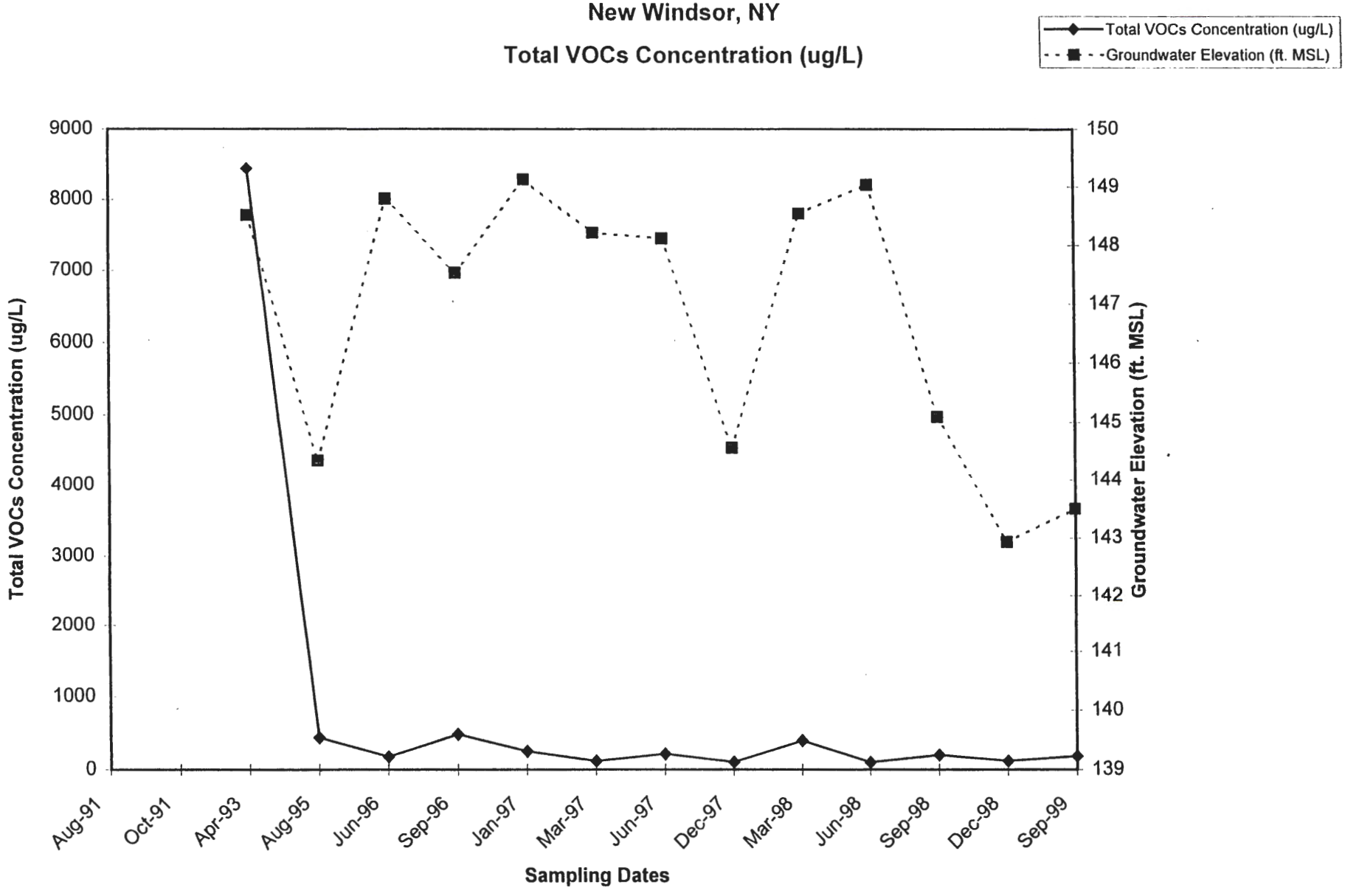


Table 13
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-17
Monarch Systems, Inc., New Windsor, New York

RIZ-17

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91	Oct-91	Apr-93	Aug-95	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5			1.6							
1,2-Dichloroethane	5										
1,1-Dichloroethene	5			5.1							
trans-1,2-Dichloroethene	No Standard										
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5				2.4 JB	5.7 B					
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5			2	1.7 J	1.3 JB	1.8 J				
Toluene	5										
1,1,1-Trichloroethane (TCA)	5			150	14	8.3	7.5	6.7	4 J	4.6 J	
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5			94	46	50	62	71	49	69	15
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		NS	NS	252.7	64.1	65.3	71.3	77.7	53	73.6	15
Well Elevation (ft. MSL)				159.22	159.22	159.22	159.22	159.22	159.22	159.22	159.22
Depth of Water (ft.)				10.91	14.6	10.5	11.53	10.53	11.17	11.46	14.71
Groundwater Elevation (ft. MSL)				148.31	144.62	148.72	147.69	148.69	148.05	147.76	144.51

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 13
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-17
Monarch Systems, Inc., New Windsor, New York

RIZ-17																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)									2.5	J, B										
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	1.6	J	1.4	J																
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5	4.6	J	5.4						2.4	J										
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	61		68		17		8.9	J	22											
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		67.2		74.8		17		8.9		26.9											
Well Elevation (ft. MSL)		159.22		159.22		159.22		159.22		159.22											
Depth of Water (ft.)		10.86		10.34		13.84		16.04		15.18											
Groundwater Elevation (ft. MSL)		148.36		148.88		145.38		143.18		144.04											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

RIZ-17
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

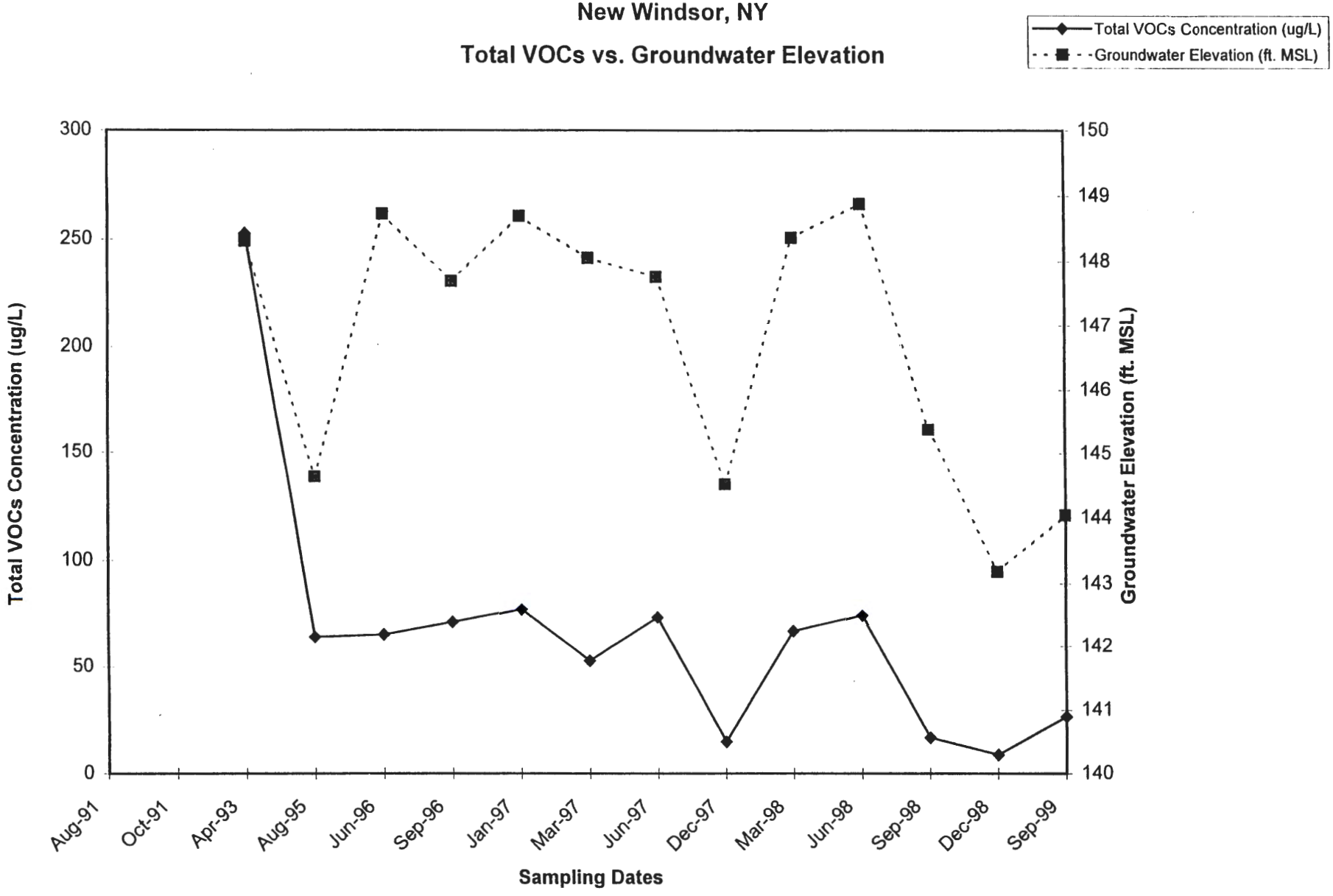


Table 14
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-18
Monarch Systems, Inc., New Windsor, New York

RIZ-18

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91		Oct-91		Apr-93		Aug-95		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97	
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							1.2	JB	1.8	J										
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5					240		14		5.4		5.9		24		7		6			
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5					100		120		63		74		310		72		63			
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS	340		135.2		70.2		79.9		334		79		69			NS
Well Elevation (ft. MSL)						159.21		159.21		159.21		159.21		159.21		159.21		159.21		159.21	
Depth of Water (ft.)						11.09		15.42		10.16		11.78		10.57		11.32		11.59		*	
Groundwater Elevation (ft. MSL)						148.12		143.79		149.05		147.43		148.64		147.89		147.62			

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area
* = Machine bolted over well.

Table 14
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-18
Monarch Systems, Inc., New Windsor, New York

RIZ-18																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)									3.9	J, B										
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5																				
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5	7.5		5.2				2.6	J	3.9	J										
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	84		100		2.5	J	6.8	J	14											
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		91.5		105.2		2.5		9.4		21.8											
Well Elevation (ft. MSL)		159.21		159.21		159.21		159.21		159.21											
Depth of Water (ft.)		11.45		10.78		14.76		17.05		16.32											
Groundwater Elevation (ft. MSL)		147.76		148.43		144.45		142.16		142.89											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area
* = Machine bolted over well.

RIZ-18
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

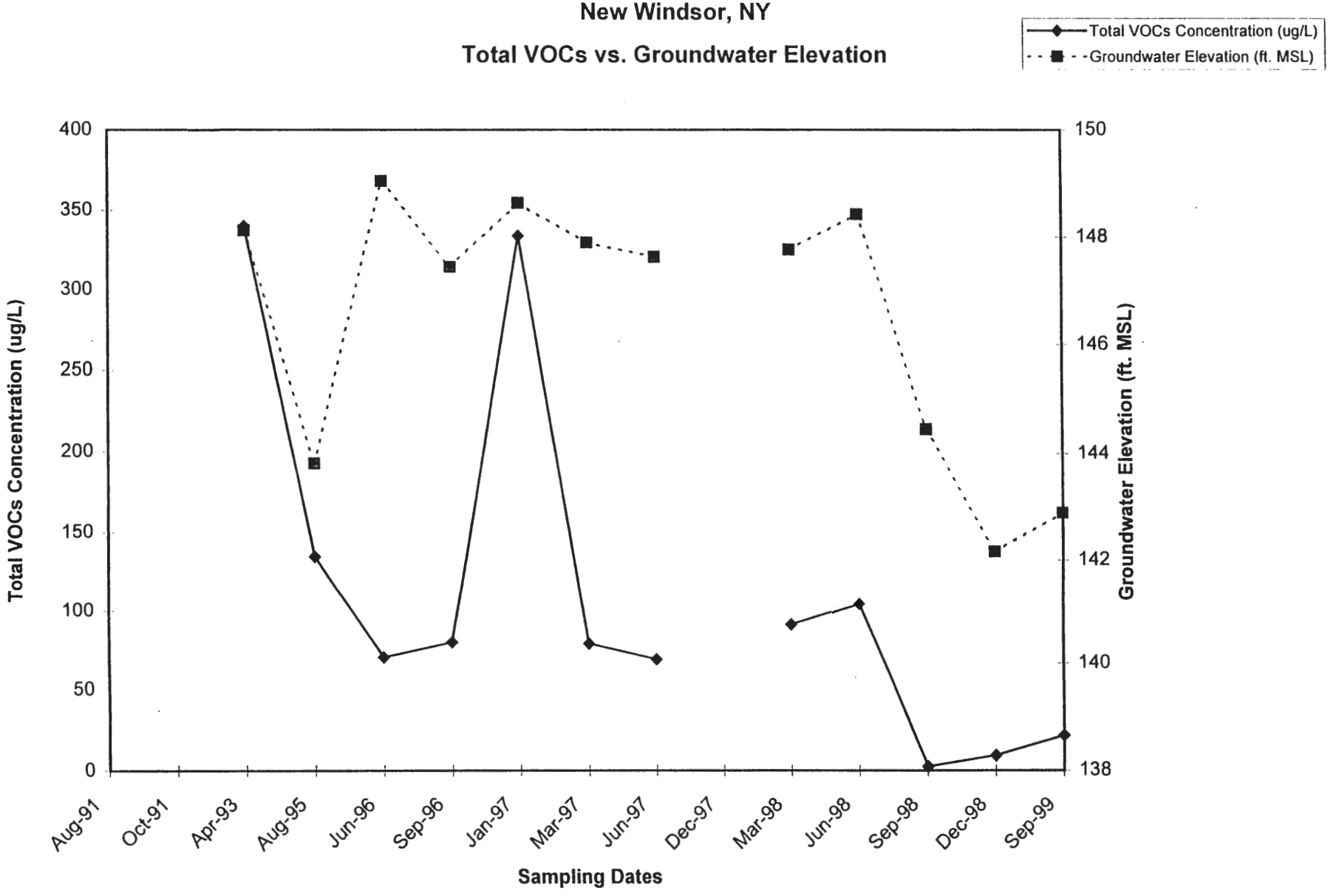


Table 15
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-19
Monarch Systems, Inc., New Windsor, New York

RIZ-19

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Aug-91		Oct-91		Apr-93		Aug-95		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97	
Acetone	No Standard - 50 (guidance value)																				
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							1.8	JB	6	B	3.3	J								
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5									1.2	J	1.5	J								
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5					8.9		1.4	J												
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5					11		2.6	J	6.4		5.7		7.6		6.2		7		1.8	J
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs			NS		NS	19.9		5.8		13.6		10.5		7.6		6.2		7		1.8	
Well Elevation (ft. MSL)						159.18		159.18		159.18		159.18		159.18		159.18		159.18		159.18	
Depth of Water (ft.)						9.59		14.2		9.35		10.51		8.93		9.98		10.3		13.85	
Groundwater Elevation (ft. MSL)						149.59		144.98		149.83		148.67		150.25		149.2		148.88		145.33	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled
"1A" = Under Trailer Wheels
"1B" = Under Box Storage Area

Table 15
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - RIZ-19
Monarch Systems, Inc., New Windsor, New York

RIZ-19																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Mar-98		Jun-98		Sep-98		Dec-98		Sep-99											
Acetone	No Standard - 50 (guidance value)									3.8	J, B										
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5							1.6	J												
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	1.4	J																		
Toluene	5																				
1,1,1-Trichloroethane (TCA)	5																				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	7.6		5.4		2.5	J			2.3	J										
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		9		5.4		2.5		1.6		6.1											
Well Elevation (ft. MSL)		159.18		159.18		159.18		159.18		159.18											
Depth of Water (ft.)		9.68		9.27		13.59		16.04		15.04											
Groundwater Elevation (ft. MSL)		149.5		149.91		145.59		143.14		144.14											

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
"NS" = Not Sampled

RIZ-19
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

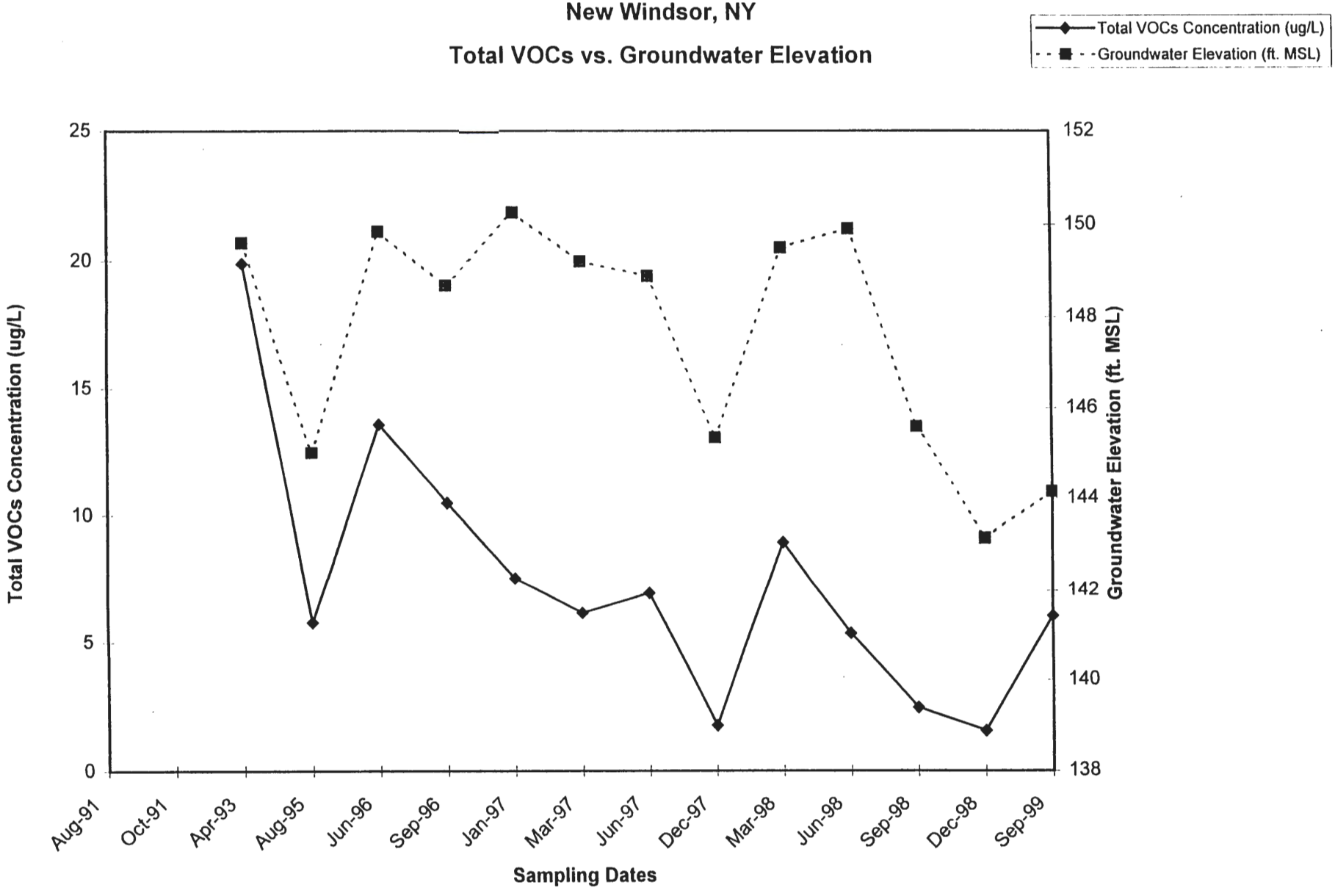


Table 1b
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-1S
Monarch Systems, Inc., New Windsor, New York

MW-1S

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97	Mar-98	Jun-98	Sep-98
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5	3.5 J	14	37 D	8.6		19 J	3.2 J	7.7		
1,2-Dichloroethane	5								1.8 J		
1,1-Dichloroethene	5	20	30	80 D	97	160	170	17	200	440	450
trans-1,2-Dichloroethene	No Standard				24	27 J	85	11	7.8	29 J	
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5	1.9 JB	6.4 B	8.8 JD							
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane	5	130	130	360 D	550	1000	1100	39	1200 E	2400	2700
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	43	64	61 D	170	390	370	44	300 E	810	1300
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		198.4	244.4	546.8	849.6	1577	1744	114.2	1717.3	3679	4450
Well Elevation (ft. MSL)		144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1	144.1
Depth of Water (ft.)		1.12	1.1	0.89	0.53	1.3	1.3	1.45	0.83	1	2.97
Groundwater Elevation (ft. MSL)		142.98	143	143.21	143.57	142.8	142.8	142.65	143.27	143.1	141.13

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

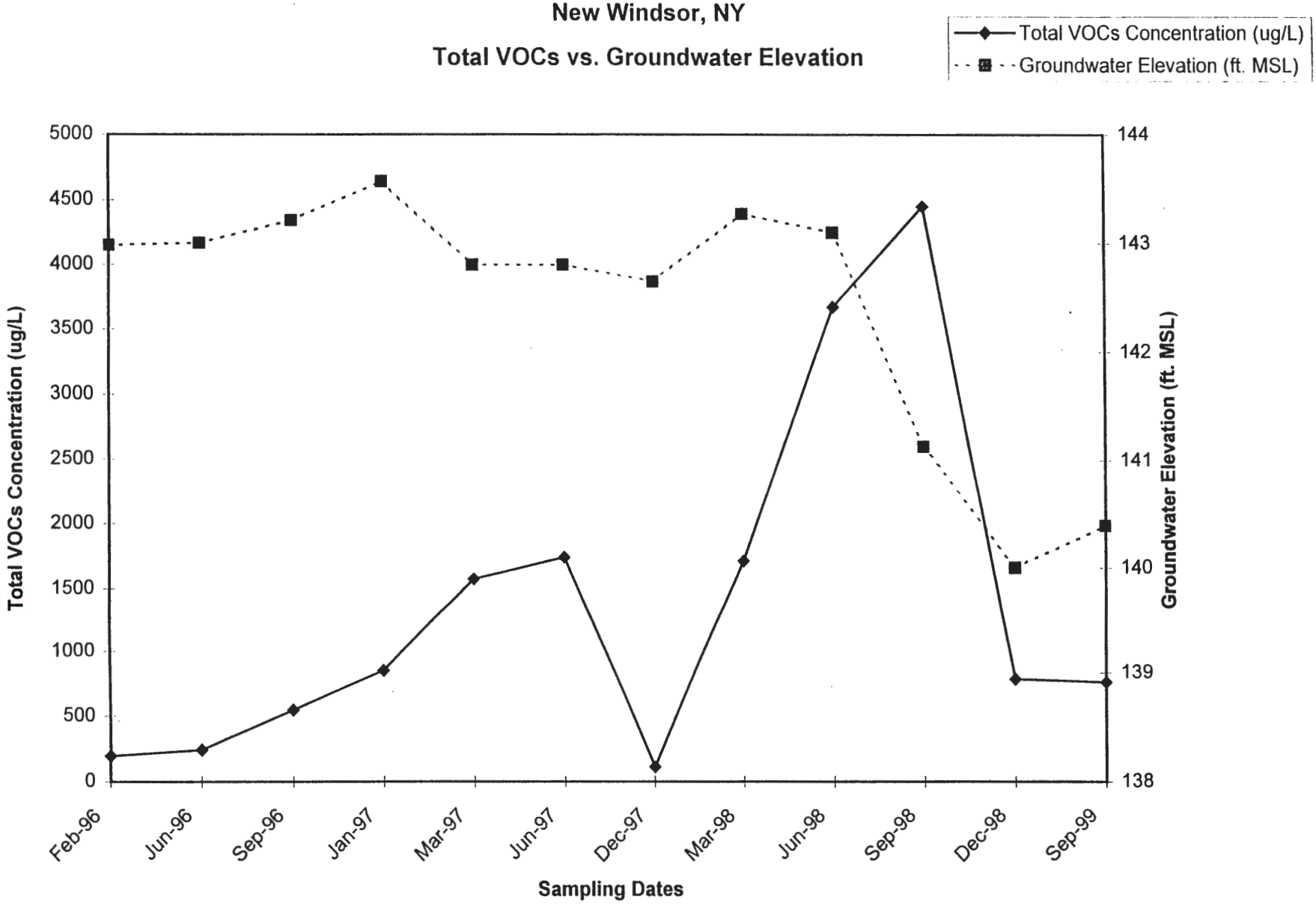
Table 16
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-1S
Monarch Systems, Inc., New Windsor, New York

MW-1S																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98		Sep-99																			
Acetone	No Standard - 50 (guidance value)			3	J, B																		
Benzene	0.7																						
Bromodichloromethane	Not Regulated																						
Bromoform	No Standard - 50 (guidance value)																						
Bromomethane	5																						
2-Butanone (MEK)	No Standard - 50 (guidance value)																						
Carbon Disulfide	Not Regulated																						
Carbon Tetrachloride	5			43																			
Chlorobenzene	5																						
Chloroethane	5																						
2-Chloroethyl Vinyl Ether																							
Chloroform	7																						
Chloromethane	5																						
Dibromochloromethane	No Standard - 50 (guidance value)																						
1,1-Dichloroethane	5	11	J	22	J																		
1,2-Dichloroethane	5																						
1,1-Dichloroethene	5	93		110																			
trans-1,2-Dichloroethene	No Standard	9.8	J	15	J																		
1,2-Dichloropropane	5																						
cis-1,3-Dichloropropene	5																						
trans-1,3-Dichloropropene	5																						
Ethylbenzene	5																						
2-Hexanone	No Standard - 50 (guidance value)																						
4-Methyl-2-Pentanone (M1BK)	Not Regulated																						
Methylene Chloride	5																						
Styrene	5																						
1,1,2,2-Tetrachloroethane	5																						
Tetrachloroethene	5																						
Toluene	5																						
1,1,1-Trichloroethane	5	380		280																			
1,1,2-Trichloroethane	5																						
Trichloroethene (TCE)	5	290		280																			
Vinyl Acetate	Not Regulated																						
Vinyl Chloride	2			6.5	J																		
Xylenes (Total)	5																						
TOTAL VOCs		783.8		759.5		0		0		0		0		0		0		0					
Well Elevation (ft. MSL)		144.1		144.1		144.1		144.1		144.1		144.1		144.1		144.1		144.1					
Depth of Water (ft.)		4.1		3.71																			
Groundwater Elevation (ft. MSL)		140		140.39		144.1		144.1		144.1		144.1		144.1		144.1		144.1					

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

MW-1S
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch2

Table 17
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-1D
Monarch Systems, Inc., New Windsor, New York

MW-1D

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97	Mar-98	Jun-98	Sep-98
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5	92 D	17 D	7.8 D	13	8.4	8.6	5.4 J	15	11	6.8 J
1,2-Dichloroethane	5										
1,1-Dichloroethene	5	75 D	26 D		7				3.4 J	1.9 J	2 J
trans-1,2-Dichloroethene	No Standard				11						
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5	28 JD	11 JBD	6 JD							
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane	5	720 D	300 D	140 D	230	59	61	230	390	86	110
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	800 D	400 D	00 D	96	27	25	40	43	30	17
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		1715	754	253.8	357	94.4	94.6	275.4	451.4	128.9	135.8
Well Elevation (ft. MSL)		144.06	144.06	144.06	144.06	144.06	144.06	144.06	144.06	144.06	144.06
Depth of Water (ft.)		0	0	0	0	0	0	2	0	0	1.09
Groundwater Elevation (ft. MSL)		144.06	144.06	144.06	144.06	144.06	144.06	142.06	144.06	144.06	142.97

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

Table 17
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-1D
Monarch Systems, Inc., New Windsor, New York

MW-1D																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98		Sep-99																	
Acetone	No Standard - 50 (guidance value)			1.6	J, B																
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																				
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5	13	J	26																	
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5			6.1	J																
trans-1,2-Dichloroethene	No Standard																				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5			1.9	J																
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5																				
Toluene	5																				
1,1,1-Trichloroethane	5	320		140																	
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	32		30																	
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		365		205.6		0		0		0		0		0		0		0		0	
Well Elevation (ft. MSL)		144.06		144.06		144.06		144.06		144.06		144.06		144.06		144.06		144.06		144.06	
Depth of Water (ft.)		3.21		3.08																	
Groundwater Elevation (ft. MSL)		140.85		140.98		144.06		144.06		144.06		144.06		144.06		144.06		144.06		144.06	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

MW-1D
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

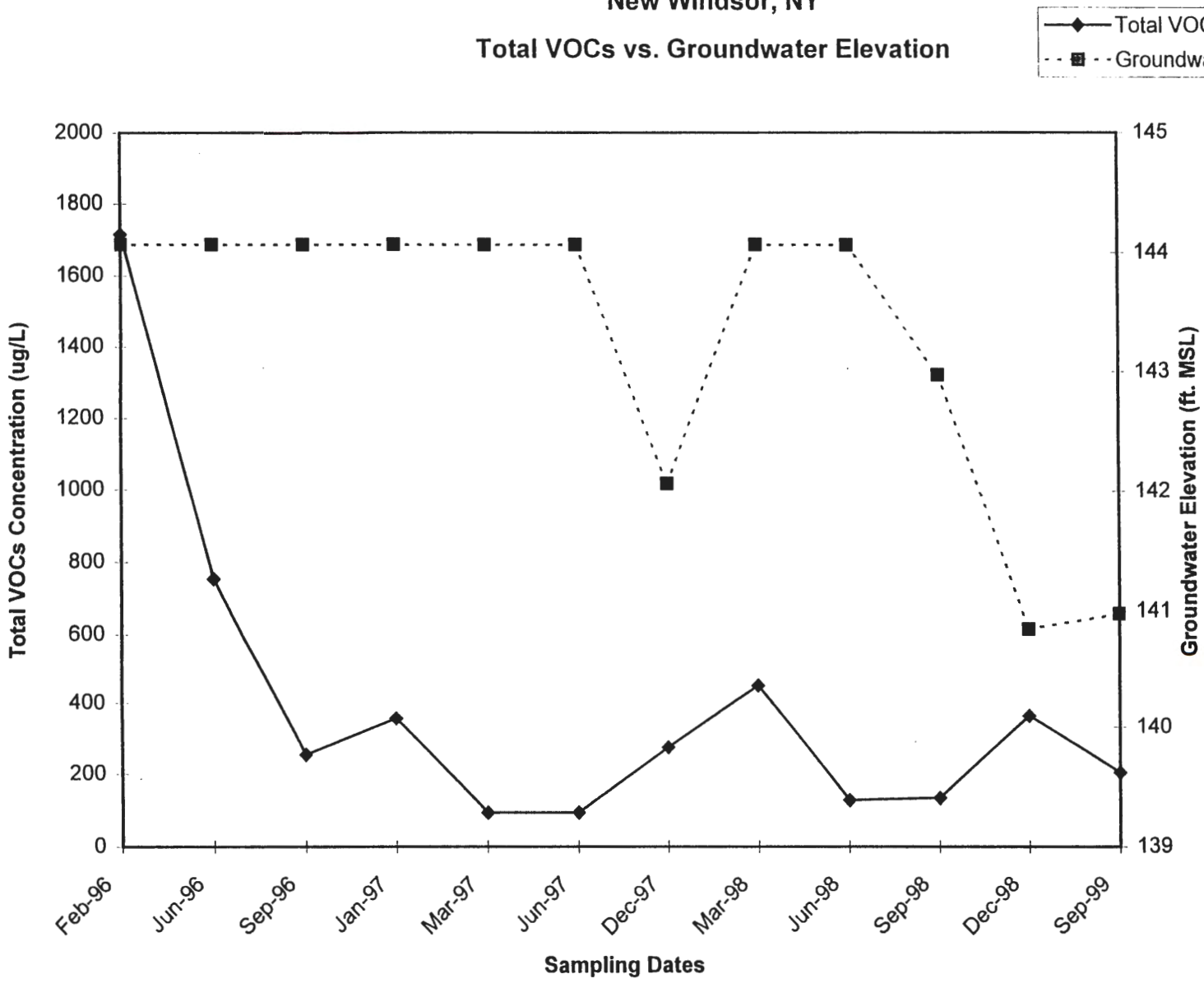


Table 18
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-2
Monarch Systems, Inc., New Windsor, New York

MW-2

VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97	Mar-98	Jun-98	Sep-98
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated	4,800 D									
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5		5.4 J								
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5	190 JD	33		160 J		89 J		36 J		
1,2-Dichloroethane	5										
1,1-Dichloroethene	5		230 J		140 J		310	110 J	76 J	300 J	190 J
trans-1,2-Dichloroethene	No Standard	910 D	2.7 J		270	440 J	370	410	350	430 J	340 J
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5	170 JBD	6.5 B	280 JD			110 J				
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5		29								
Toluene	5										
1,1,1-Trichloroethane	5	19,000 D	7200	6900 D	4500	9700	13000	4900	3200	10000	7100
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	20,000 D	7200	6600 D	4400	8700	10000	3800	2700	9900 *	5000
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2		1.5 J								
Xylenes (Total)	5										
TOTAL VOCs		45070	14708.1	13780	9470	18840	23879	9220	6362	20630	12630
Well Elevation (ft. MSL)		143.92	143.92	143.92	143.92	143.92	143.92	143.92	143.92	143.92	143.92
Depth of Water (ft.)		0.75	0.63	0.5	0.64	0.88	1.23	2.2	0.2	0.91	2.51
Groundwater Elevation (ft. MSL)		143.17	143.29	143.42	143.28	143.04	142.69	141.72	143.72	143.01	141.41

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
* - Suspected Reporting Error

Table 10
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-2
Monarch Systems, Inc., New Windsor, New York

MW-2																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98		Sep-99																			
Acetone	No Standard - 50 (guidance value)			41	J, B																		
Benzene	0.7																						
Bromodichloromethane	Not Regulated																						
Bromoform	No Standard - 50 (guidance value)																						
Bromomethane	5																						
2-Butanone (MEK)	No Standard - 50 (guidance value)																						
Carbon Disulfide	Not Regulated																						
Carbon Tetrachloride	5																						
Chlorobenzene	5																						
Chloroethane	5																						
2-Chloroethyl Vinyl Ether																							
Chloroform	7																						
Chloromethane	5																						
Dibromochloromethane	No Standard - 50 (guidance value)																						
1,1-Dichloroethane	5			24	J																		
1,2-Dichloroethane	5																						
1,1-Dichloroethene	5	190	J	93	J																		
trans-1,2-Dichloroethene	No Standard	310	J	340																			
1,2-Dichloropropane	5																						
cis-1,3-Dichloropropene	5																						
trans-1,3-Dichloropropene	5																						
Ethylbenzene	5																						
2-Hexanone	No Standard - 50 (guidance value)																						
4-Methyl-2-Pentanone (M1BK)	Not Regulated																						
Methylene Chloride	5																						
Styrene	5																						
1,1,2,2-Tetrachloroethane	5																						
Tetrachloroethene	5																						
Toluene	5																						
1,1,1-Trichloroethane	5	8500		2700																			
1,1,2-Trichloroethane	5																						
Trichloroethene (TCE)	5	4500		2900																			
Vinyl Acetate	Not Regulated																						
Vinyl Chloride	2																						
Xylenes (Total)	5																						
TOTAL VOCs		13500		6098		0		0		0		0		0		0		0		0		0	
Well Elevation (ft. MSL)		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92	
Depth of Water (ft.)		3.51		3.07																			
Groundwater Elevation (ft. MSL)		140.41		140.85		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92		143.92	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed
* - Suspected Reporting Error

MW-2
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

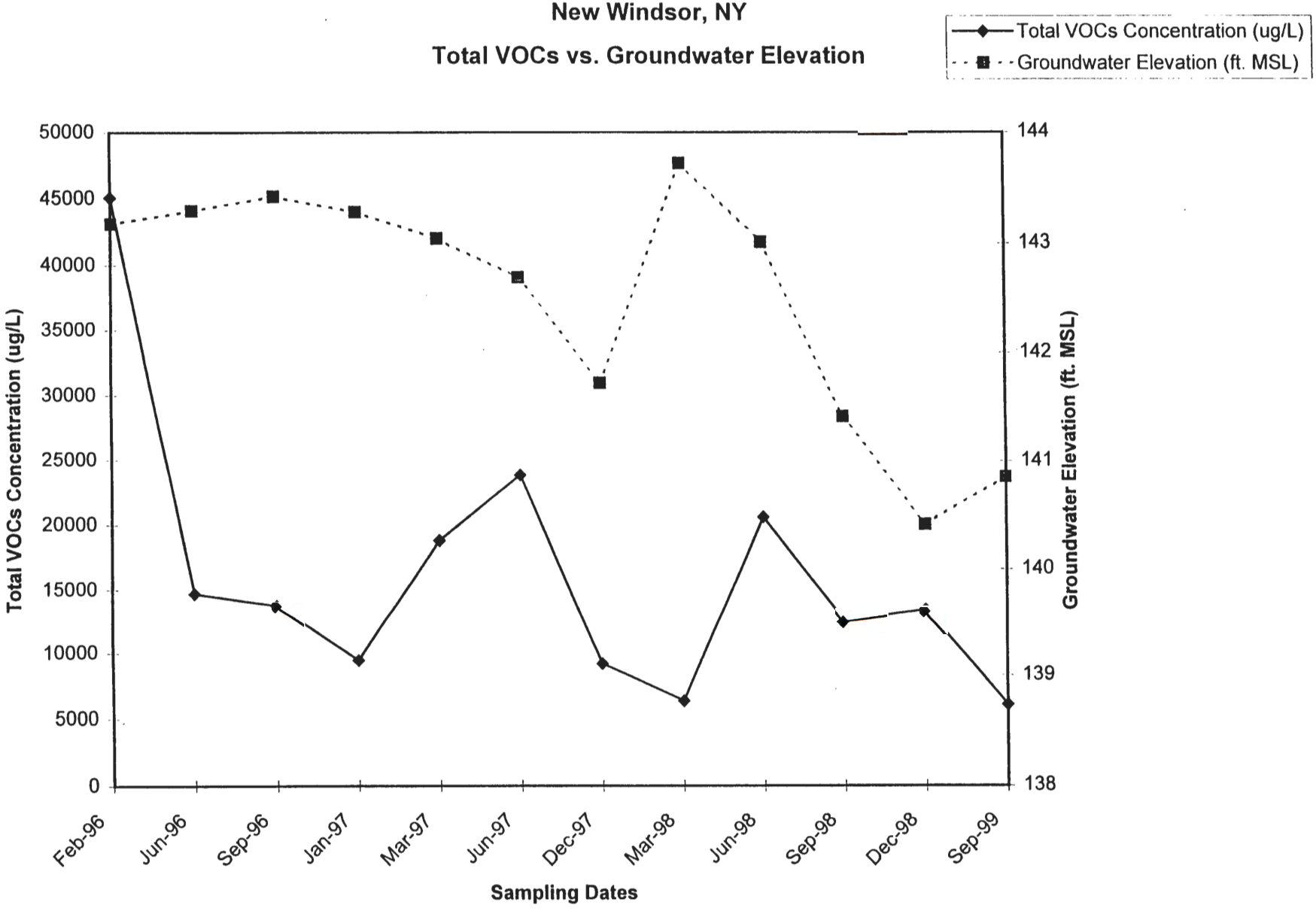


Table 19
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-3
Monarch Systems, Inc., New Windsor, New York

MW-3																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97		Mar-98		Jun-98		Sep-98	
Acetone	No Standard - 50 (guidance value)			9.4	J															25	
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)																			15	
Carbon Disulfide	Not Regulated	24																			
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5																				
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5																				
trans-1,2-Dichloroethene	No Standard							1.2	J							3.2	J	1.4	J	1.4	J
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5					1.6	J														
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5	1	J																		
Toluene	5																				
1,1,1-Trichloroethane	5	2.5	J	3	J	3.8		2.8	J	2.1	J					1.6	J				
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	110		53		110		110		100		85		24		84		45		5.9	J
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		137.5		65.4		115.4		114		102.1		85		24		88.8		46.4		47.3	
Well Elevation (ft. MSL)		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04	
Depth of Water (ft.)		0		0		0		0.35		0.35		0.5		1.84		0		0		1.7	
Groundwater Elevation (ft. MSL)		145.04		145.04		145.04		144.69		144.69		144.54		143.2		145.04		145.04		143.34	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

Table 19
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-3
Monarch Systems, Inc., New Windsor, New York

	MW-3																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98		Sep-99																		
Acetone	No Standard - 50 (guidance value)			3.4	J, B																	
Benzene	0.7																					
Bromodichloromethane	Not Regulated																					
Bromoform	No Standard - 50 (guidance value)																					
Bromomethane	5																					
2-Butanone (MEK)	No Standard - 50 (guidance value)																					
Carbon Disulfide	Not Regulated																					
Carbon Tetrachloride	5																					
Chlorobenzene	5																					
Chloroethane	5																					
2-Chloroethyl Vinyl Ether																						
Chloroform	7																					
Chloromethane	5																					
Dibromochloromethane	No Standard - 50 (guidance value)																					
1,1-Dichloroethane	5																					
1,2-Dichloroethane	5																					
1,1-Dichloroethene	5																					
trans-1,2-Dichloroethene	No Standard																					
1,2-Dichloropropane	5																					
cis-1,3-Dichloropropene	5																					
trans-1,3-Dichloropropene	5																					
Ethylbenzene	5																					
2-Hexanone	No Standard - 50 (guidance value)																					
4-Methyl-2-Pentanone (M1BK)	Not Regulated																					
Methylene Chloride	5																					
Styrene	5																					
1,1,2,2-Tetrachloroethane	5																					
Tetrachloroethene	5																					
Toluene	5																					
1,1,1-Trichloroethane	5																					
1,1,2-Trichloroethane	5																					
Trichloroethene (TCE)	5			3.9	J																	
Vinyl Acetate	Not Regulated																					
Vinyl Chloride	2																					
Xylenes (Total)	5																					
TOTAL VOCs		0	ND	7.3																		
Well Elevation (ft. MSL)		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04		145.04		
Depth of Water (ft.)		3.46		2.98																		
Groundwater Elevation (ft. MSL)		141.58		142.06																		

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

MW-3
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation

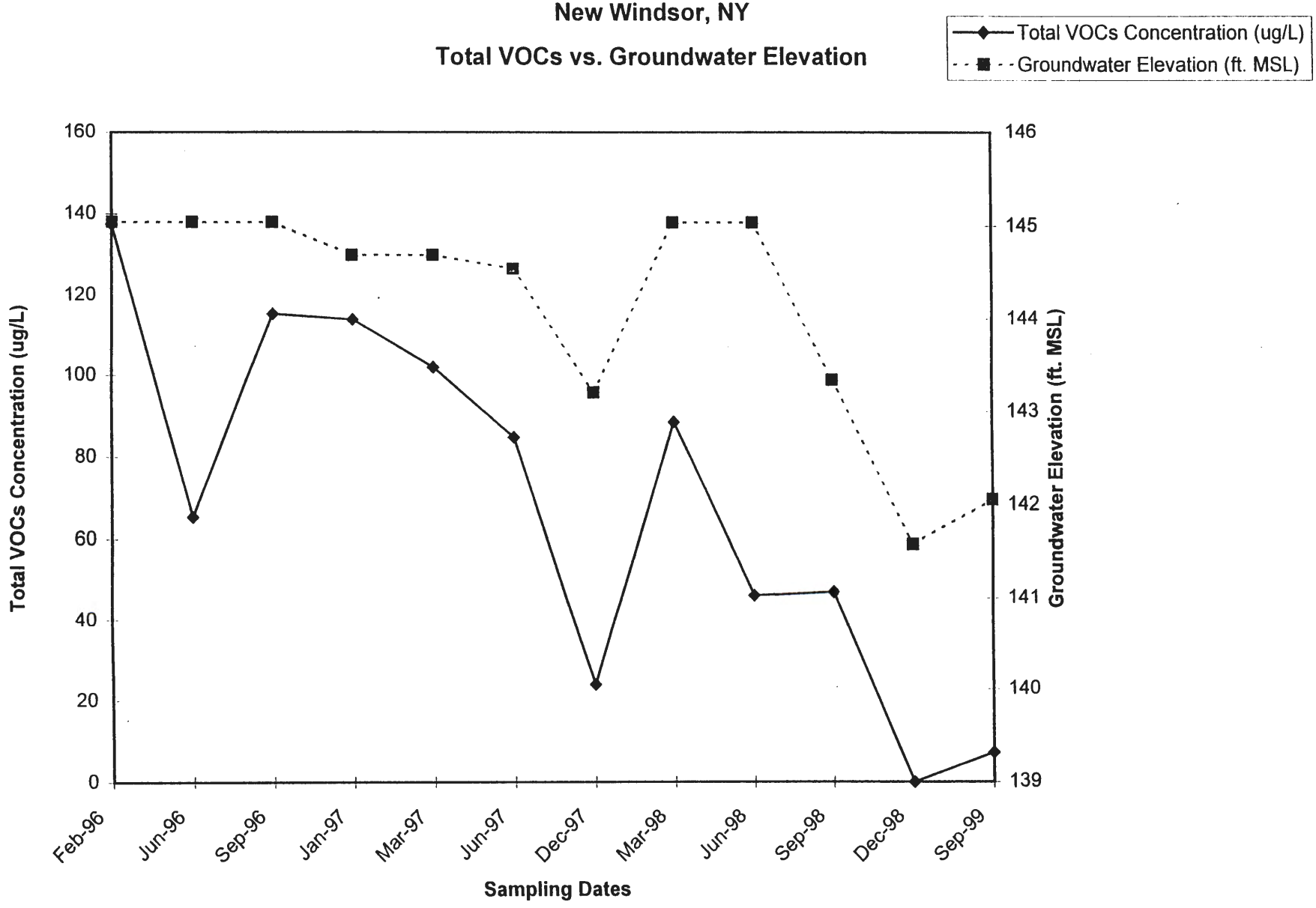


Table 2b

Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-4I
Monarch Systems, Inc., New Windsor, New York

MW-4I																							
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96		Jun-96		Sep-96		Jan-97		Mar-97		Jun-97		Dec-97		Mar-98		Jun-98		Sep-98	
Acetone	No Standard - 50 (guidance value)			17								69	J								
Benzene	0.7																				
Bromodichloromethane	Not Regulated																				
Bromoform	No Standard - 50 (guidance value)																				
Bromomethane	5																				
2-Butanone (MEK)	No Standard - 50 (guidance value)			8.6	J																
Carbon Disulfide	Not Regulated																				
Carbon Tetrachloride	5																				
Chlorobenzene	5																				
Chloroethane	5																				
2-Chloroethyl Vinyl Ether																					
Chloroform	7																				
Chloromethane	5																				
Dibromochloromethane	No Standard - 50 (guidance value)																				
1,1-Dichloroethane	5	880	D	590		1000	D	580		400		220		26		110		56		31	
1,2-Dichloroethane	5																				
1,1-Dichloroethene	5			2.2	J			7.4		7.9		6.7				2.2	J				
trans-1,2-Dichloroethene	No Standard							6.6		3.1	J	2.3	J			1.7	J				
1,2-Dichloropropane	5																				
cis-1,3-Dichloropropene	5																				
trans-1,3-Dichloropropene	5																				
Ethylbenzene	5																				
2-Hexanone	No Standard - 50 (guidance value)																				
4-Methyl-2-Pentanone (M1BK)	Not Regulated																				
Methylene Chloride	5	26	JD	2	J	33	JD					17	J,B								
Styrene	5																				
1,1,2,2-Tetrachloroethane	5																				
Tetrachloroethene	5			2.7	J	61	D	3.3	J	25	J	2.7	J								
Toluene	5																				
1,1,1-Trichloroethane	5	25	JD	210		4500	D			1200		1100		40		66		120		92	
1,1,2-Trichloroethane	5																				
Trichloroethene (TCE)	5	1,400	D	1100		2400	D	1000		850		630		60		190		140		89	
Vinyl Acetate	Not Regulated																				
Vinyl Chloride	2																				
Xylenes (Total)	5																				
TOTAL VOCs		**2331**		**1932.5**		**7994**		**1597.3**		**2486**		**2047.7**		**126**		**369.9**		**316**		**212**	
Well Elevation (ft. MSL)		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26	
Depth of Water (ft.)		10.53		10.03		11.11		9.72		10.78		10.88		14.38		10.43		9.69		13.85	
Groundwater Elevation (ft. MSL)		148.73		149.23		148.15		149.54		148.48		148.38		144.88		148.83		149.57		145.41	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

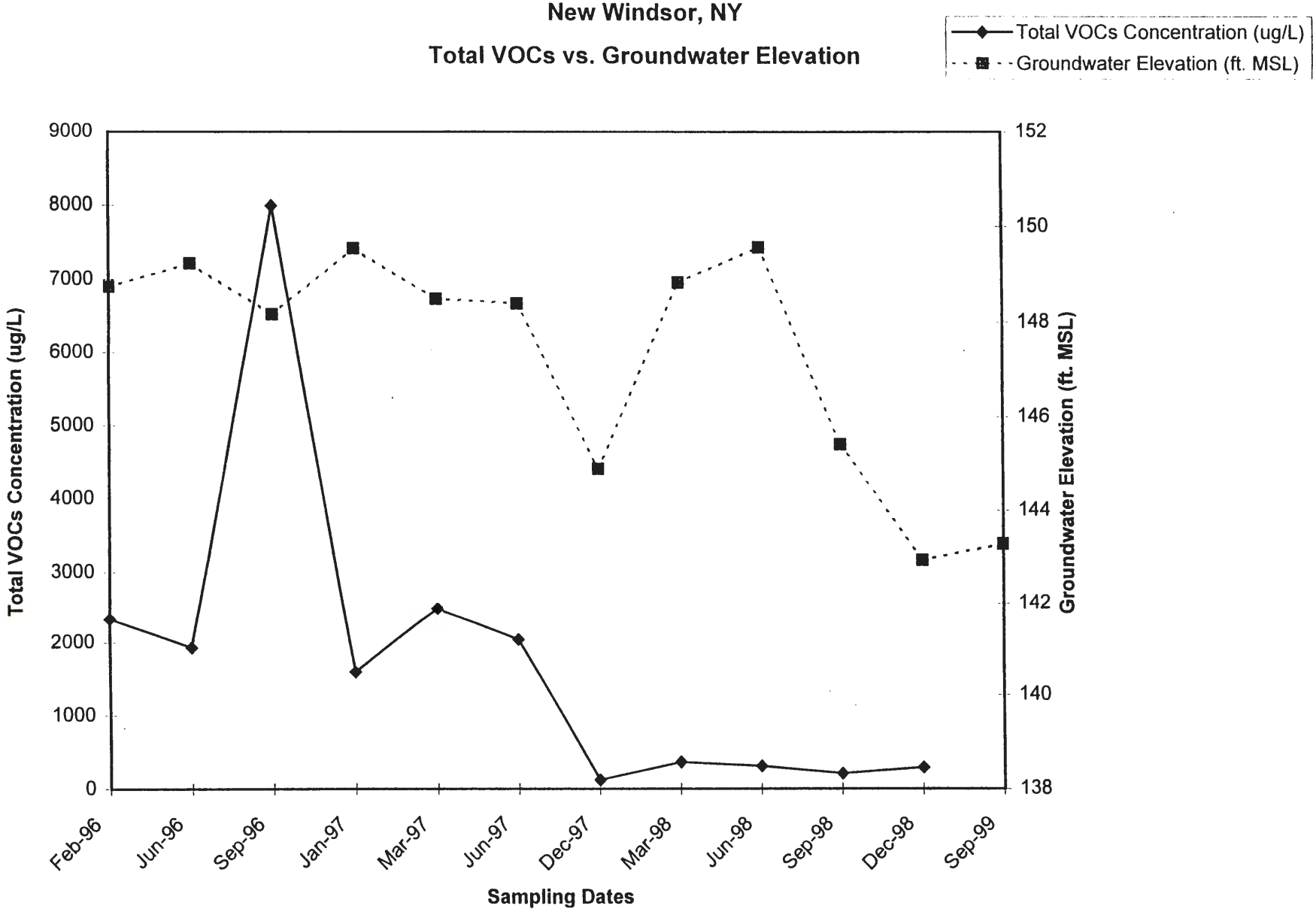
Table 20
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-4I
Monarch Systems, Inc., New Windsor, New York

	MW-4I											
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98	Sep-99									
Acetone	No Standard - 50 (guidance value)											
Benzene	0.7											
Bromodichloromethane	Not Regulated											
Bromoform	No Standard - 50 (guidance value)											
Bromomethane	5											
2-Butanone (MEK)	No Standard - 50 (guidance value)											
Carbon Disulfide	Not Regulated											
Carbon Tetrachloride	5											
Chlorobenzene	5											
Chloroethane	5											
2-Chloroethyl Vinyl Ether												
Chloroform	7											
Chloromethane	5											
Dibromochloromethane	No Standard - 50 (guidance value)											
1,1-Dichloroethane	5	49										
1,2-Dichloroethane	5											
1,1-Dichloroethene	5											
trans-1,2-Dichloroethene	No Standard											
1,2-Dichloropropane	5											
cis-1,3-Dichloropropene	5											
trans-1,3-Dichloropropene	5											
Ethylbenzene	5											
2-Hexanone	No Standard - 50 (guidance value)											
4-Methyl-2-Pentanone (M1BK)	Not Regulated											
Methylene Chloride	5											
Styrene	5											
1,1,2,2-Tetrachloroethane	5											
Tetrachloroethene	5											
Toluene	5											
1,1,1-Trichloroethane	5	110										
1,1,2-Trichloroethane	5											
Trichloroethene (TCE)	5	140										
Vinyl Acetate	Not Regulated											
Vinyl Chloride	2											
Xylenes (Total)	5											
TOTAL VOCs		**299**				**0**		**0**		**0**		**0**		**0**		**0**		**0**	
Well Elevation (ft. MSL)		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26	
Depth of Water (ft.)		16.32		15.98															
Groundwater Elevation (ft. MSL)		142.94		143.28		159.26		159.26		159.26		159.26		159.26		159.26		159.26	

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

MW-4I
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation



Monarch2

Table 21
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-4D
Monarch Systems, Inc., New Windsor, New York

MW-4D VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Feb-96	Jun-96	Sep-96	Jan-97	Mar-97	Jun-97	Dec-97	Mar-98	Jun-98	Sep-98
Acetone	No Standard - 50 (guidance value)										
Benzene	0.7										
Bromodichloromethane	Not Regulated										
Bromoform	No Standard - 50 (guidance value)										
Bromomethane	5										
2-Butanone (MEK)	No Standard - 50 (guidance value)										
Carbon Disulfide	Not Regulated										
Carbon Tetrachloride	5										
Chlorobenzene	5										
Chloroethane	5										
2-Chloroethyl Vinyl Ether											
Chloroform	7										
Chloromethane	5										
Dibromochloromethane	No Standard - 50 (guidance value)										
1,1-Dichloroethane	5	120	50	43	30	20	21	7.3	12	13	10
1,2-Dichloroethane	5										
1,1-Dichloroethene	5										
trans-1,2-Dichloroethene	No Standard				2 J	1.3 J	1.5 J		1.2 J		
1,2-Dichloropropane	5										
cis-1,3-Dichloropropene	5										
trans-1,3-Dichloropropene	5										
Ethylbenzene	5										
2-Hexanone	No Standard - 50 (guidance value)										
4-Methyl-2-Pentanone (M1BK)	Not Regulated										
Methylene Chloride	5	2.4 J	2.9 J	1.3 J							
Styrene	5										
1,1,2,2-Tetrachloroethane	5										
Tetrachloroethene	5										
Toluene	5										
1,1,1-Trichloroethane	5	14	16	11	7	3.5 J	3.6 J	53	23	6.5	54
1,1,2-Trichloroethane	5										
Trichloroethene (TCE)	5	120	120	120	92	78	73	73	99	77	91
Vinyl Acetate	Not Regulated										
Vinyl Chloride	2										
Xylenes (Total)	5										
TOTAL VOCs		256.4	188.9	175.3	131	102.8	99.1	133.3	135.2	96.5	155
Well Elevation (ft. MSL)		159.26	159.26	159.26	159.26	159.26	159.26	159.26	159.26	159.26	159.26
Depth of Water (ft.)		11.11	10.44	11.51	10.75	11.21	11.31	14.81	10.81	10.24	14.32
Groundwater Elevation (ft. MSL)		148.15	148.82	147.75	148.51	148.05	147.95	144.45	148.45	149.02	144.94

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

Table 21
Groundwater Volatile Organic Compound Data (ug/L)
Well Number - MW-4D
Monarch Systems, Inc., New Windsor, New York

	MW-4D																					
VOCs (ug/l)	Groundwater Quality Standard Concentration (ug/l) (From NYSDEC Class - GA Quality Standards)	Dec-98		Sep-99																		
Acetone	No Standard - 50 (guidance value)																					
Benzene	0.7																					
Bromodichloromethane	Not Regulated																					
Bromoform	No Standard - 50 (guidance value)																					
Bromomethane	5																					
2-Butanone (MEK)	No Standard - 50 (guidance value)																					
Carbon Disulfide	Not Regulated																					
Carbon Tetrachloride	5																					
Chlorobenzene	5																					
Chloroethane	5																					
2-Chloroethyl Vinyl Ether																						
Chloroform	7																					
Chloromethane	5																					
Dibromochloromethane	No Standard - 50 (guidance value)																					
1,1-Dichloroethane	5	6.1	J																			
1,2-Dichloroethane	5																					
1,1-Dichloroethene	5																					
trans-1,2-Dichloroethene	No Standard																					
1,2-Dichloropropane	5																					
cis-1,3-Dichloropropene	5																					
trans-1,3-Dichloropropene	5																					
Ethylbenzene	5																					
2-Hexanone	No Standard - 50 (guidance value)																					
4-Methyl-2-Pentanone (M1BK)	Not Regulated																					
Methylene Chloride	5																					
Styrene	5																					
1,1,2,2-Tetrachloroethane	5																					
Tetrachloroethene	5																					
Toluene	5																					
1,1,1-Trichloroethane	5	53																				
1,1,2-Trichloroethane	5																					
Trichloroethene (TCE)	5	99																				
Vinyl Acetate	Not Regulated																					
Vinyl Chloride	2																					
Xylenes (Total)	5																					
TOTAL VOCs		158.1			NS	0		0		0		0		0		0		0		0		
Well Elevation (ft. MSL)		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		
Depth of Water (ft.)		16.8		16.43																		
Groundwater Elevation (ft. MSL)		142.46		142.83		159.26		159.26		159.26		159.26		159.26		159.26		159.26		159.26		

Note:
"B" = Found in method blank
"J" = Estimated result, less than the quantitation limit
"D" = Dilution performed

MW-4D
Monarch Systems, Inc.
New Windsor, NY

Total VOCs vs. Groundwater Elevation