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New York State Department of Environmental Conservation

Decision Document

Interim Remedial Measure

September, 1996

Griffin Technology Site
Town of Farmington, Ontario County, New York
Site Number 835008

Division of Environmental Remediation

Interim Remedial Measure Decision Document
Griffin Technology Inc.
Site No. 835008

6132 Victor-Manchester Road
Town of Farmington, Ontario County

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NYSDEC, Region 8

Approved by

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September 1996

INTERIM REMEDIAL MEASURE DECISION DOCUMENT

Griffin Technology
Town of Farmington, Ontario County, New York
September 1996

1.0 INTRODUCTION

The purpose of this Interim Remedial Measure Decision Document is to document the choice of an interim remedial measure (IRM) for the Griffin Technology site. The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), is presenting an IRM to address groundwater contamination at the Griffin Technology site. The goal of the IRM is to reduce the level of contamination in the groundwater, thereby reducing the threat it may pose in the future.

2.0 SITE DESCRIPTION AND BACKGROUND

The Griffin Technology site (Griffin) is located at 6132 Victor-Manchester Road in the Town of Farmington, Ontario County (see Figure 1). Griffin is located on a 4-acre parcel of land bordered by undeveloped lots. Griffin utilizes a 25,000 square foot manufacturing building on the southern portion of the property.

Griffin has been manufacturing laminated plastic identification cards at this location since 1975. The manufacturing process generated a small amount of trichloroethene (TCE) wastes. From 1975 until 1986, these wastes were disposed of in small batches directly onto the ground surface immediately to the west of the building. This practice resulted in groundwater contamination, but no clearly identifiable residual source. Soil borings in the area of the disposal did not detect significant contamination.

The Griffin Technology site is on the New York State Registry of Inactive Hazardous Waste Disposal Sites as a Class 2a. The Class 2a designation means that there is documented disposal of hazardous waste at the facility, but the threat posed by that waste is not known. Griffin Technology entered into a consent order with the NYSDEC in March 1991. This order required Griffin to perform a Phase II investigation at the site. Griffin has performed several investigations in order to fulfill the terms of the 1991 order. Enough data has been collected to provide a basis for an IRM to address groundwater contamination. Griffin and NYSDEC are currently finalizing an IRM consent order and design.

3.0 SUMMARY OF SITE CONTAMINATION

Investigations to date have shown only groundwater to be affected by contamination from the site. There have been no significant levels of contamination detected in on-site and off-site soils, sediments or surface water. Figure 2 shows the location of the monitoring wells (MW) at the site, along with detected contaminant levels.

Contaminant levels in the groundwater are highest in MW-05S and MW-05D with levels of TCE at 350 parts per billion (ppb) and 1000 ppb, respectively. The groundwater standard for TCE is 5 ppb based on drinking water quality. The MW-05 bedrock/overburden cluster is located approximately 150 feet directly downgradient from the historic disposal area, but still on Griffin property. The TCE levels at MW-10S and MW-10D, which are approximately 1000 feet downgradient near Beaver Creek, were found at 7.8 ppb and 8.2 ppb, respectively. Investigations to date indicate that no drinking water wells or other public water sources have been affected.

Groundwater flow direction has been clearly established in the overburden aquifer to be in the south-southwest direction (Figure 3). Groundwater flow in the bedrock aquifer is not as well defined, with a portion flowing in the same direction as the overburden and a portion flowing to the west (Figure 4).

4.0 SUMMARY OF IRM

The IRM chosen for the Griffin site consists of three groundwater extraction wells pumping contaminated groundwater and discharging it to the publicly owned treatment works (POTW). This IRM was deemed necessary in order to accelerate the treatment of the groundwater with the highest levels of contamination and prevent further offsite migration. The location of the groundwater extraction wells are shown on Figure 5. These wells are to be placed at the southwestern edge of the Griffin property, downgradient of the historical source area, to help prevent off-site migration.

A groundwater pumping design was chosen since the levels of contamination in the groundwater are such that it is possible it may be safely discharged directly to the local sewer (under a local permit). Maximum contaminant levels allowed to be discharged to the sewers will be established. If discharge to the local POTW is not cost effective, the groundwater may be treated to NYSDEC surface water discharge standards and released onsite.

Concurrent with the IRM construction, a soil boring will be drilled through the area where the waste disposal originally occurred. Soil and groundwater samples will be retrieved and analyzed to better determine if any treatment in the source area is warranted

5.0 WHAT'S NEXT?

After the IRM is constructed, the extraction well system will be operated for approximately a six month performance period to evaluate its effectiveness. The data generated will be reviewed and evaluated by NYSDEC, NYSDOH and Griffin to determine future actions which may include modifications to the pump and treat system.

In addition to monitoring the IRM, the data generated will be used to better delineate the bedrock flow patterns. Additional investigations may be required to clarify the extent of the bedrock groundwater plume to the west. The need for additional investigations will be evaluated based on the results of the IRM and the possible threat to receptors identified to the west. The data generated may indicate the need for reclassification and/or a remedial investigation and a feasibility study.

6.0 COMMUNITY PARTICIPATION

A fact sheet outlining the project has been prepared for concurrent release with the IRM Decision Document. Any comments or questions regarding the Griffin Technology site environmental activities should to be directed to:

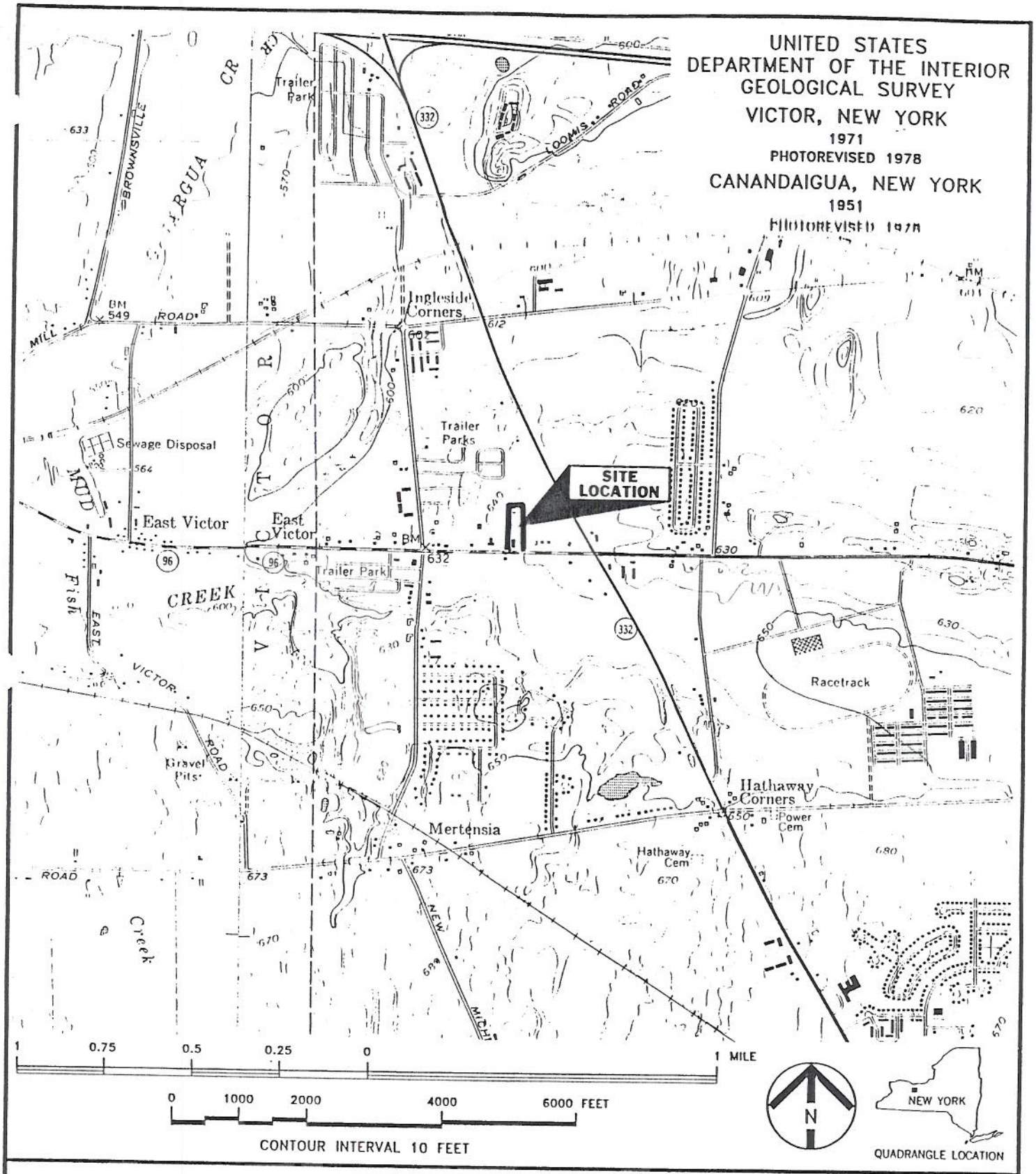
David Pratt - Project Manager; or Joseph Hamm - Citizen Participation Specialist
Region 8, NYSDEC
6274 E. Avon-Lima Rd.
Avon, NY 14414-9519
(716) 226 - 2466
(800) 342 - 9296

For health related concerns, contact:

Richard Tuers - Environmental Engineer; or
Anita Gabalski - Health Liaison Program
NYSDOH
2 University Place
Albany, NY 12203
(800) 458 - 1158, ext. 402

All final documents are available for review at the NYSDEC Region 8 Office in Avon, NY (by appointment) or at the document repository located at the:

Victor Free Library
15 West Main Street
Victor, NY 14564
(716) 924 - 2637



GENERAL LOCATION MAP

GRIFFIN TECHNOLOGY INC. - ONTARIO COUNTY - FARMINGTON, NEW YORK

FIGURE 1

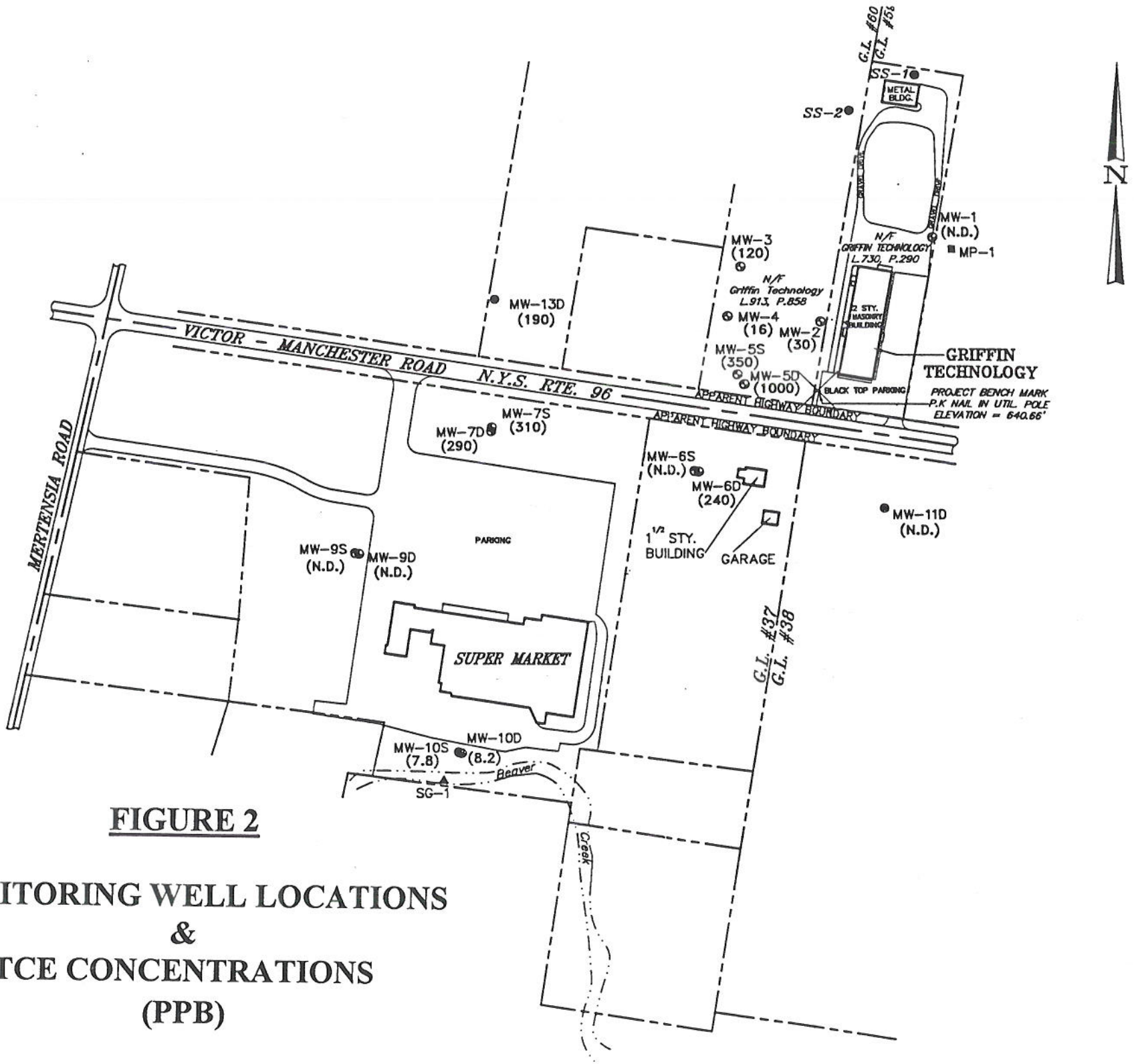


FIGURE 2

MONITORING WELL LOCATIONS
&
TCE CONCENTRATIONS
(PPB)

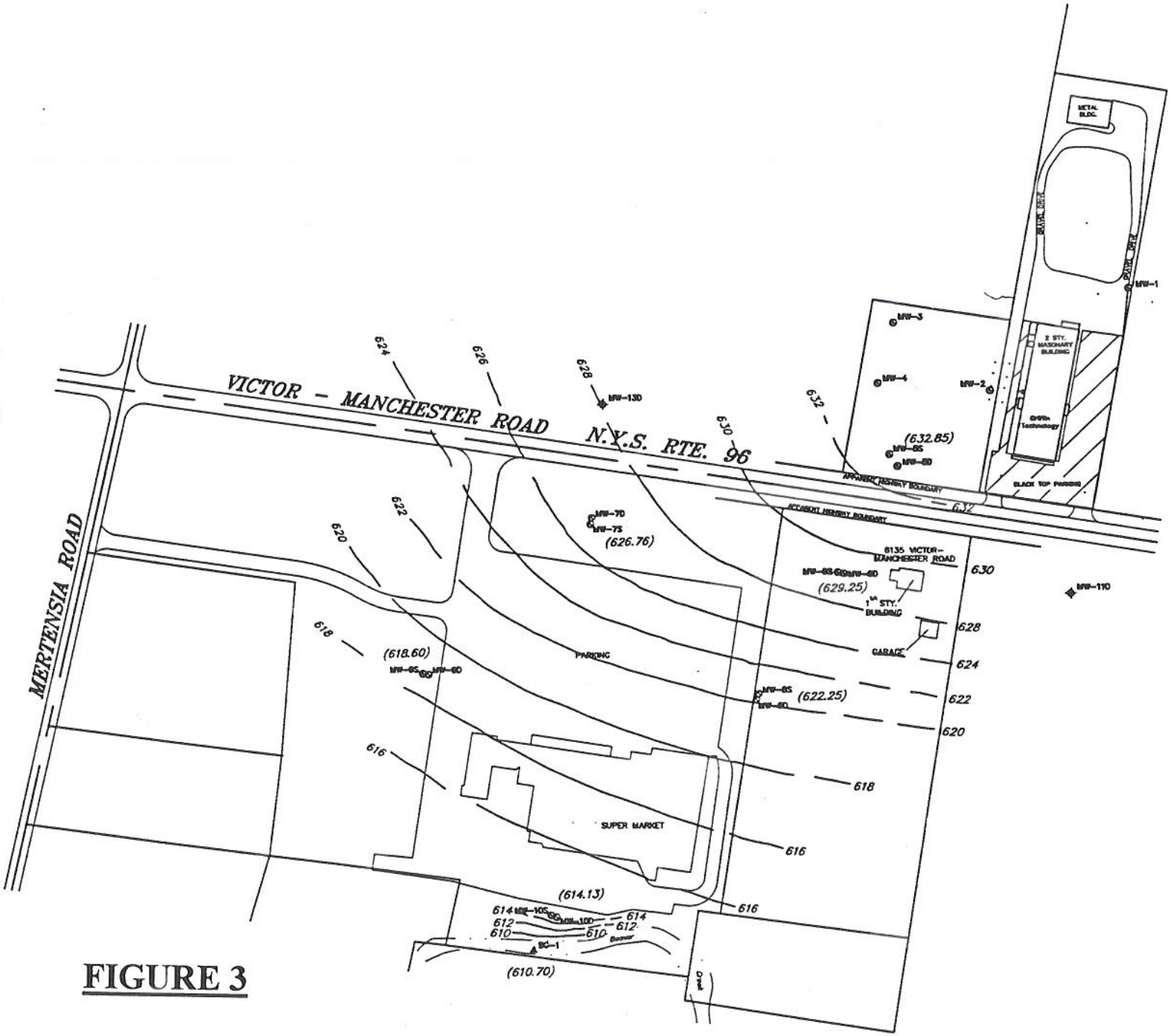


FIGURE 3

OVERBURDEN GROUNDWATER FLOW

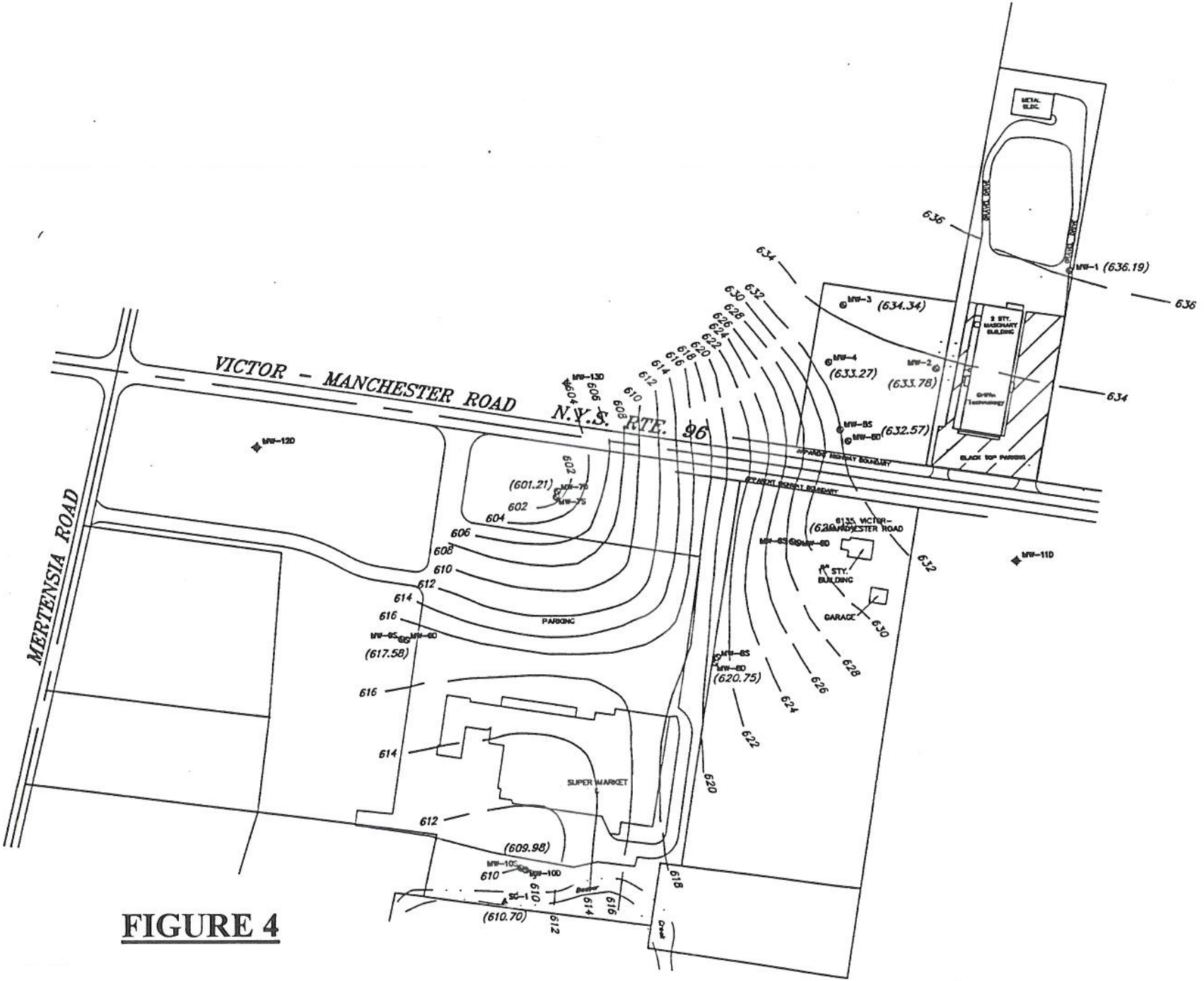


FIGURE 4

BEDROCK GROUNDWATER FLOW

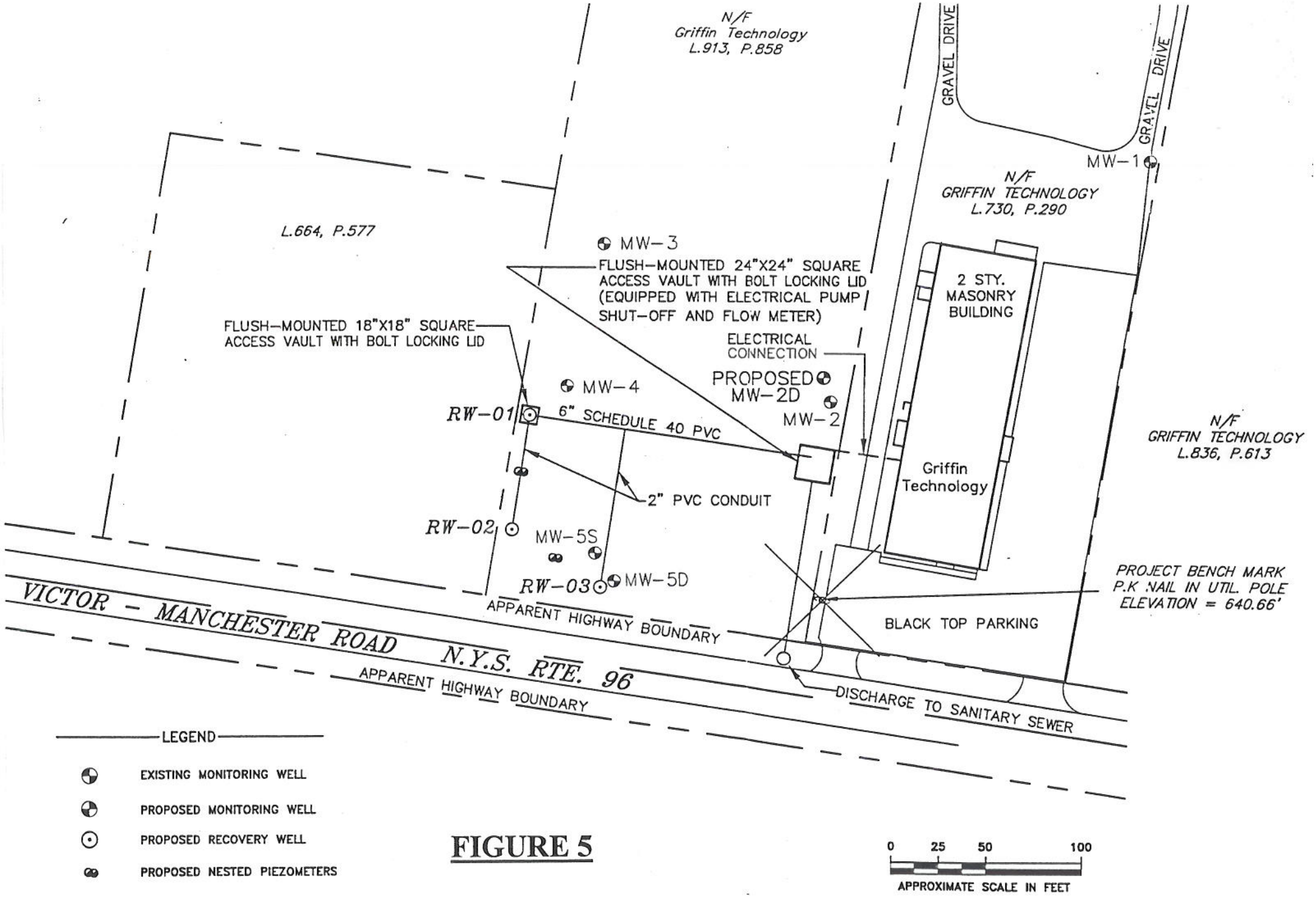


FIGURE 5

PROPOSED EXTRACTION WELL LOCATIONS
(RW-01, RW-02, RW-03)

New York State Department of Environmental Conservation
Region 8 Office - Division of Environmental Remediation
6274 East Avon-Lima Road
Avon, New York 14414
Telephone: (716) 226-2466

Michael D. Zagata
Commissioner

Renée Forgensi Davison
Regional Director

FACT SHEET
Griffin Technology Inactive Hazardous Waste Site
Farmington, New York
September 1996

The New York State Department of Environmental Conservation (NYSDEC), in consultation with the New York State Department of Health (NYSDOH), is presenting this fact sheet to update the public on activities at the Griffin Technology inactive hazardous waste site.

SITE DESCRIPTION AND BACKGROUND

The Griffin Technology site (Griffin) is located at 6132 Victor-Manchester Road in the Town of Farmington, Ontario County (see Figure 1). Griffin is located on a 4-acre parcel of land bordered by undeveloped lots. Griffin utilizes a 25,000 square foot manufacturing building on the southern portion of the property.

Griffin has been manufacturing laminated plastic identification cards at this location since 1975. The manufacturing process generated a small amount of trichloroethene (TCE) wastes. From 1975 until 1986, these wastes were disposed of in small quantities directly onto the ground surface immediately to the west of the building.

Investigations to date have shown only groundwater to be affected by contamination from the site. The local area is supplied with public water; therefore, the groundwater is not being used for drinking purposes. There have been no significant levels of contamination detected in the soils, sediments or surface water on or near the site.

The New York State groundwater standard for TCE is 5 parts per billion (ppb), based on drinking water quality. The highest contaminant levels in the groundwater are 350 ppb of TCE in the shallow groundwater and 1000 ppb of TCE in the deeper groundwater. These levels were detected in monitoring wells located on the Griffin property. The groundwater contaminant levels drop off to be at or near groundwater standards near Beaver Creek, approximately 1000 feet south of the site.

The shallow groundwater flows south-southwest, toward Beaver Creek. Flow in the deeper groundwater appears to split, with a portion flowing in the same direction as the shallow groundwater and a portion flowing to the west.

WHAT'S NEXT?

At the Griffin Technology site, there is currently enough information available to allow a focused cleanup of the groundwater with the most significant contamination. The work is scheduled to begin in late 1996.

The cleanup chosen for the Griffin site consists of pumping contaminated groundwater and discharging it to the local sewer system subject to the approval of the local sewer authority. The groundwater extraction wells will be located at the southwest edge of the Griffin property in order to address the groundwater with the highest levels of contamination. The placement of these extraction wells will also help prevent further migration of contaminated groundwater from the Griffin property.

After the system is installed and operating, the progress will be monitored to determine how well it is functioning.

At the same time the groundwater cleanup system is installed, sampling of soil and groundwater in the area where the waste was disposed will occur. If significant contamination is found, remedial actions will be considered for this area.

After the cleanup is underway and the additional investigations are completed, another Fact Sheet will be released to provide an update on the project status and findings.

COMMUNITY PARTICIPATION

Please direct any comments or questions regarding the Griffin Technology environmental investigation to:

David Pratt - Project Manager; or
Joseph Hamm - Citizen Participation Specialist
Region 8, NYSDEC
6274 E. Avon-Lima Rd.
Avon, NY 14414-9519
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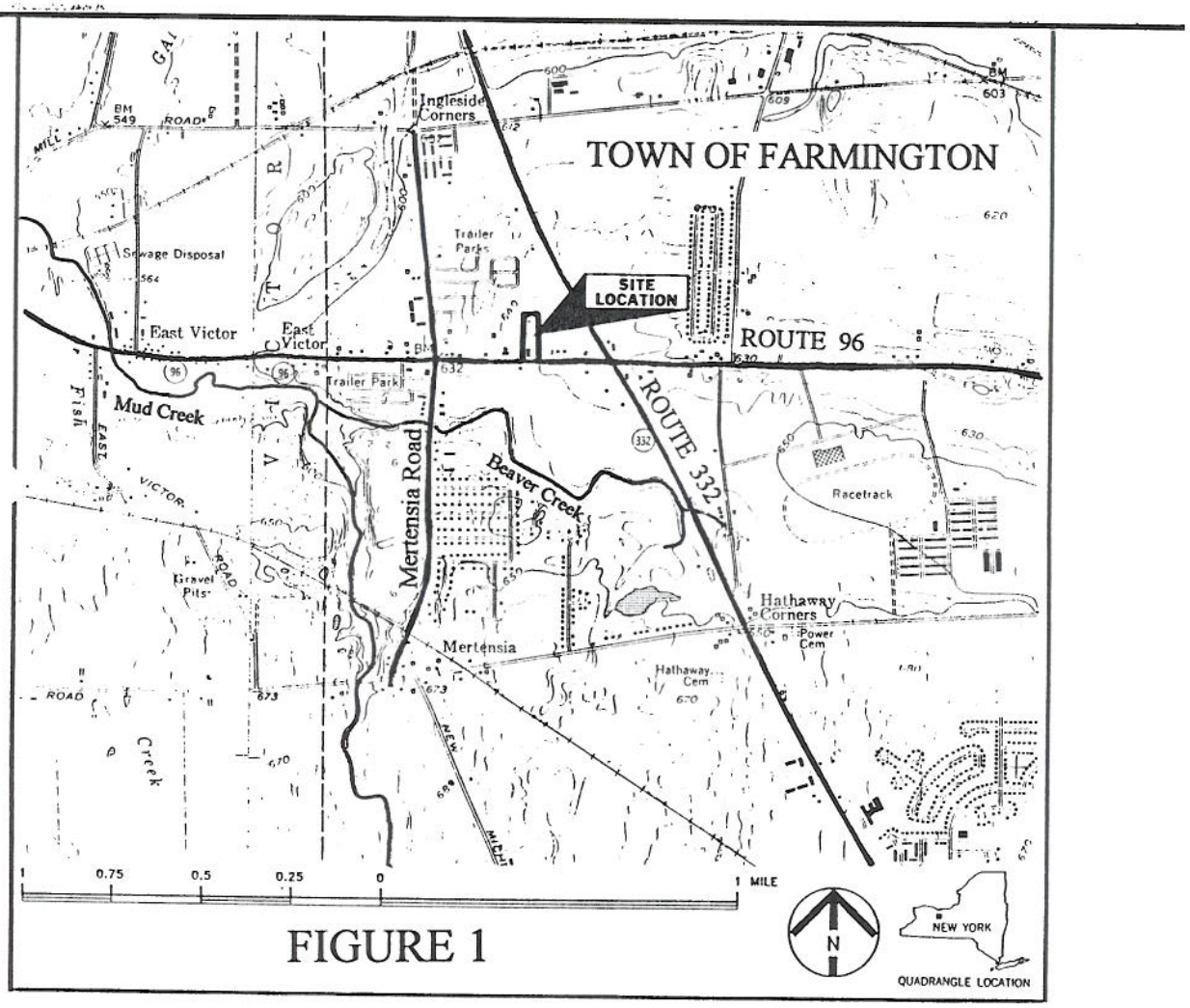

FIGURE 1