NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION

4/1/00

SITE INVESTIGATION INFORMATION

1. SITE NAME	2. SITE NUMBER	3. TOWN/CITY/VILLAGE	4. COUNTY
SPEEDY'S CLEANERS	8-28-109	PITTSFORD, NY	MONROE COUNTY

5. REGION 8

6. CLASSIFICATION CURRENT [2a] PROPOSED [2] MODIFICATION

7. LOCATION OF SITE (Attach U.S.G.S. Topographic Map showing site location)

a. Quadrangle UGS 7.5 Minute Quad Pittsford b. Site Latitude 43 E 06 ' 24 " Site Longitude 77 E 32 ' 33 "

c. Tax Map Number(s) 150.120-01-006 and 150.120-01-35.1 d. Site Street Address 3130 Monroe Avenue

8. BRIEFLY DESCRIBE THE SITE (Attach site map showing disposal/sampling locations)

The site is located in a commercial area of the Town of Pittsford. The Site includes the Speedy's Cleaners property and the Rochester Gas and Electric Company (RG&E) property. The Speedy's Cleaners property is situated on 0.27 acres and consists of a small paved lot and a 4900 square foot building housing Speedy's Cleaners and Cliffords Wine and Liquor. The RG&E property consists of a level grassy area that drops off sharply to the north. Speedy's Cleaners operated as a dry cleaner from approximately 1966 until approximately 1993. Speedy's Cleaners is currently used as a drop-off and pick up-location only and no dry cleaning is conducted on the premises. Tertrachoroethene (PCE) has been detected in Site soils and groundwater.

a. Area 0.38 acres b. Completed: [ ] Env. Property Assessment [X] PSA [ ] SI [ ] ESI [ ] IRM [ ] RI/FS [ ] Construction [ ] O&M [ ] Other

9. HAZARDOUS WASTE DISPOSED (Include EPA Hazardous Waste Numbers)

Tetrachloroethene (CAS # 127-18-4) EPA Waste # F002, D039
Trichloroethylene D040 (Breakdown product of tetrachloroethylene)
Vinyl Chloride D043 (Breakdown product of tetrachloroethylene)

10. ANALYTICAL DATA AVAILABLE

a. [ ] Air [✓] Groundwater [ ] Surface Water [ ] Sediment [✓] Soil [ ] Waste [ ] Leachate [ ] EPTox [ ] TCLP

b. Contravention of Standards or Guidance Values

Contaminant	Media	Concentration	NYS Groundwater Standard	Contaminant	Media	Concentration	NYSDEC Soil Cleanup Objective
PCE	groundwater	5,900 ppb	5 ppb	PCE	soil	110,000 ppb	1,400 ppb
trichloroehene (TCE)	groundwater	580 ppb	5 ppb	TCE	soil	4,200 ppb	300 ppb
cis-1,2-dichloroethene (DCE)	groundwater	64,000 ppb	5 ppb				
trans 1,2-DCE	groundwater	580 ppb	5 ppb				
1,1-DCE	groundwater	80 ppb	5 ppb				
vinyl chloride	groundwater	9,200 ppb	2 ppb				
ethylbenzene	groundwater	250 ppb	5 ppb				
xylene (total)	groundwater	310 ppb	5 ppb				
chloromethane	groundwater	22 ppb	5 ppb				

11. **CONCLUSION**

Concentrations of contaminants detected in groundwater and soil samples collected at the Site exceed NYS Class GA groundwater standards and the NYSDEC Soil Cleanup Objectives. Concentrations of chlorinated solvents were detected in groundwater samples collected downgradient of the Site, at concentrations above the NYS Class GA groundwater standards. Contaminants originating from the Site soils are migrating off-site in groundwater. Tetrachloroethene, Trichloroethylene and Vinyl Chloride contaminant concentrations in groundwater exceed the maximum regulatory level for Toxicity Characteristic thus making the subsurface soils at the site hazardous waste.

a. Institutional Controls (IC) Required? [ ] *Y* [X] *N* ***b. If yes, identify*** ***c. Are these ICs in place and verified?*** no

[ ] *N*

12. SITE IMPACT DATA

a. Nearest Surface Water: Distance 100 ft. Direction northeast Class AA/B

b. Groundwater: Depth 12 ft. Flow Direction northeast [ ] Sole Source [X] Primary [ ] Other High-Yield Aquifer

c. Water Supply: Distance 3800 ft. Direction southeast Active [ ] Yes [ ] No

d. Nearest Building: Distance on site ft. Direction on - site Use Business: dry cleaner pick up / liquor store

e. Documented fish or wildlife mortality? NO

f. Impact on special status fish or wildlife resource? NO

g. Controlled Site Access? NO

h. Exposed hazardous waste? NO

i. If proposed Classification is 2, Priority? [ ] 1 [X] 2 [ ] 3

j. EPA ID# NYD981558315 HRS Score

13. SITE OWNER'S NAME	14. ADDRESS	15. TELEPHONE NUMBER
Chris Williams / Rochester Gas & Electric	P.O. Box 499 Pittsford, NY 14618--Williams 89 East Avenue, Rochester, NY 14604- RG&E	(585) 586-3060

16. PREPARER	17. APPROVED
Signature Date	Signature Date
A. Joseph White, Environmental Engineer II , DER, BHSC	John B. Swartwout, Section Chief, DER, BHSC
Name, Title, Organization	Name, Title, Organization

NEW YORK STATE DEPARTMENTS OF ENVIRONMENTAL CONSERVATION AND HEALTH
INACTIVE HAZARDOUS WASTE DISPOSAL SITE PRIORITY RANKING WORKSHEET

SITE I.D. 8-28-109 **SITE NAME** SPEEDY'S CLEANERS

E **Priority I** - Sites for which remediation should supersede all other Class 2 sites. Priority I can be assigned if any one of the following questions can be answered affirmatively.

a) Has a public or private water supply which is currently in use been contaminated or threatened? [ ]
b) Has human exposure to contaminants (or the potential for exposure) been identified which represents a significant health risk as determined by DOH? [ ]
c) Has bioaccumulation of site contaminants in flora or fauna resulted in a health advisory? [ ]
d) Are site contaminants present at levels that are acutely toxic to fish or wildlife or that have caused documented fish or more wildlife mortality? [ ]
e) Is there a potentially responsible party or volunteer ready, willing and able to proceed with remediation? [ ]

[If 1 or more boxes are checked, check this box] [ ] (1)

E **Priority II** - Important Sites. Priority II will be assigned if any of the following questions can be answered affirmatively.

a) Has a Class A or AA surface water body, a primary aquifer or other high yielding aquifer been contaminated or threatened without affecting an existing water supply which draws from it? [x]
b) Has bioaccumulation of site contaminants in flora or fauna resulted in actionable levels (but not a health advisory)? [ ]
c) Are contaminants at levels chronically toxic to fish/wildlife? [ ]
d) Have endangered, threatened or rare species, significant habitats, designated coastal zone or regulated wetlands been impacted by releases from the site? [ ]

[If 1 or more boxes are checked, check this box] [x] (2)

E **Priority III** - will be assigned unless one or more of the site prioritization criteria, specified above, apply to a site. After remedial needs for Priority I and II sites have been accommodated, remedial of sites under this category can be considered. If priority III, check box 3. [ ] (3)

Enter the number of the priority box checked 1, 2, or 3 here..... This is the site's priority rank. 2 (4)

FACTORS

IJC Factor - If the site has been identified by the International Joint Commission (IJC) as a component in a remedial action plan, subtract (1) from the value in box 4 and enter the result in box 5..... (5)

	Yes	No
EDZ Factor - If the site is within a New York State designated Economic Development Zone (EDZ) should this fact cause the site priority to be raised?..	[ ]	[x]
Community Support Factor - If the site has been targeted for local government-supported development, should this fact cause the site priority to be raised?.....	[ ]	[ ]

If either "yes" box is checked, subtract 1 from the value in box 4 and enter the result into box 6. If "no" is checked, the value in box 6 equals box 4 (or box 5 if applicable). If both IJC and EDZ/Community Support factors apply, only 1 (not 2) will be subtracted from the value in box 4. The resultant value in box 6 will never be less than 1..... 2 (6)

	Yes	No
IRM NOTE: Should this site be considered a candidate for an Interim Remedial Measure (IRM) as defined by 6NYCRR Part 375-1.3n?.....	[ ]	[x]

If "yes", please explain why: _____

Preparer A. Joseph White, Environmental Engineer II, DER, BHSC Date 2/3/2003

(4/1/00)

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Environmental Remediation

Inactive Hazardous Waste Disposal Report

Site Name: SPEEDY'S CLEANERS **Site Code:** 8-28-109
Class Code: 2 Region: 8 County: MONROE EPA Id: NYD981558315
Address: 3130 Monroe Avenue City: PITTSFORD Zip: 14618
Latitude: 43 06' 24" Longitude: 77 32' 33"
Site Type: commercial area Estimated Size: 0.38 Acres

Site Owner / Operator Information:
Current Owner(s) Name: Chris Williams / Rochester Gas & Electric
Current Owner(s) Address: P.O. Box 499, Pittsford, NY 14618 **NY**
Owner(s) during disposal: Charles Speedy, Demosthenes Speedy, D&L Realty
Operator(s) during disposal:
Stated Operator(s) Address:
Hazardous Waste Disposal Period: From 1966 To 1993

Site Description:

The site is located in a commercial area of the Town of Pittsford. The Site includes the Speedy's Cleaners property and the Rochester Gas and Electric Company (RG&E) property. The Speedy's Cleaners property is situated on 0.27 acres and consists of a small paved lot and a 4900 square foot building housing Speedy's Cleaners and Cliffords Wine and Liquor. The RG&E property consists of a level grassy area that drops off sharply to the north. Speedy's Cleaners operated as a dry cleaner from approximately 1966 until approximately 1993. Speedy's Cleaners is currently used as a drop-off and pick up-location only and no dry cleaning is conducted on the premises. Tertrachoroethene (PCE) has been detected in Site soils and groundwater.

Confirmed Hazardous Waste Disposal:	**Quantity:**
Tetrachloroethene	5,900 ppb in groundwater
Trichloroethylene	580 ppb in groundwater
Vinyl Chloride	9,200 ppb in groundwater

Analytical Data Available for: groundwater and soil
Applicable Standards Exceeded in: groundwater
Geotechnical Info
Soil/Rock Type: lacustrine silts,asnds & clays over glacial till
Bedrock: Vernon Shale
Depth to Groundwater: 12 ft.

Legal Action: Type: none Status:
Remedial Action: PSA Investigation Nature of action: Investigation

Assessment of Environmental Problems:

Concentrations of contaminants detected in groundwater and soil samples collected at the Site exceed NYS Class GA groundwater standards and the NYSDEC Soil Cleanup Objectives. Concentrations of chlorinated solvents were detected in groundwater samples collected downgradient of the Site, at concentrations above the NYS Class GA groundwater standards. Contaminants originating from the Site soils are migrating off-site in groundwater. Tetrachloroethene, Trichloroethylene and Vinyl Chloride contaminant concentrations in groundwater exceed the maximum regulatory level for Toxicity Characteristic thus making the subsurface soils at the site hazardous waste.

Assessment of Health Problems:

4.2 SOIL AND GROUNDWATER ANALYTICAL RESULTS

Soil and groundwater analytical results are compared to appropriate standards or guidelines. Reported concentrations of individual analytes indicating contravention of standards or guidelines are summarized below, and noted on Tables 4-1 and 4-2. The tables were assembled after the on-site and off-site analytical laboratory data comparison was completed and present only contaminants detected above the project quantitative limits. The tables present both on-site and off-site analytical laboratory data.

A Data Usability Summary Report was completed in accordance with the NYSDEC's Guidance for the Development of Data Usability Summary Reports (NYSDEC, 1997). This report and complete analytical results are presented in Appendix G.

For purposes of analytical interpretation, some of the data was qualified with a J. Compounds were qualified J if the concentration listed was an estimated value, which was less than the specified minimum detection limit but greater than zero. Compounds qualified J were analyzed for and determined to be present in the sample, and the mass spectrum of the compound met the identification criteria of the method.

Analytical results were compared to the standards or guidelines described below.

Soil Samples. Analytical results were compared to the Recommended Soil Cleanup Objectives in the NYSDEC TAGM No. 94-4046 (NYSDEC, 1994).

Groundwater Samples. Analytical results were compared to: (1) the NYS Class GA Groundwater Quality Standards from 6 NYCRR Parts 700-706 (NYS, 1999b) or, for those VOCs having no Class GA standard, (2) the NYS Class GA Groundwater Quality Guidance Values from the Division of Water Technical and Operational Guidance Series 1.1.1 "Ambient Water Quality Standards and Guidance Values" (NYSDEC, 1998).

4.2.1 Data Comparability

This section presents a comparison between VOC analytical results from the on-site and off-site laboratories. A more detailed discussion of split-sample results is presented in Appendix G.

4.2.1.1 Soil Sample Comparability. Of the 11 soil samples collected for on-site VOC analysis, one split sample from BS-7 was sent to the off-site analytical laboratory for confirmatory analysis. The split sample results showed agreement for the absence of contamination at the project reporting limits.

4.2.1.2 Groundwater Sample Comparability. Of the 13 samples collected for on-site VOC analysis, three split samples were sent to the off-site analytical laboratory for confirmatory analysis (from BW-1, BW-6, and BW-7). All samples showed good correlation with the detection of target compounds. The average relative percent difference of the detected analytes was 23 percent, indicating good quantitative agreement between the laboratories. Although high concentrations of target VOCs were detected in both the on-site and off-site analytical laboratory results, low concentrations of VOCs were detected in two of the off-site samples, but not in the corresponding on-site samples. These low concentration VOCs were detected at concentrations below the on-site analytical laboratory project quantitative limit. This is not considered significant, because high concentrations of target compounds were detected in the two off-site and on-site samples.

4.2.2 Soil Sample Results

A summary of target VOCs detected in soil samples is presented in Table 4-1. Table 4-1 presents hits only on-site and off-site analytical laboratory results.

PCE was detected in five samples from four borings (BS-4, BS-7, BS-8, and BS-9) at concentrations above the NYSDEC Soil Cleanup Objectives. Concentrations ranged from 4,200 µg/Kg (BS-8) to 110,000 µg/Kg (BS-9); the Soil Cleanup Objective for PCE is 1,400 µg/Kg. These borings are located north and east of the northern corner of the Site building. Relatively low concentrations of fuel related compounds were also detected in soil samples from two of the borings (BS-5 and BS-7).

To evaluate whether dense non-aqueous phase liquid (DNAPL) might be present in Site soil, linear partitioning calculations were performed with reasonable soil parameter estimates (Appendix H). Based on these calculations, DNAPL does not appear to be an important component of contaminant mass in the source area, considering the maximum reported concentration of 110,000 µg/Kg in Site soil.

4.2.3 Groundwater Sample Results

A summary of target VOCs detected in groundwater samples is presented in Table 4-2 and on Figure 4-1. Table 4-2 presents hits only on-site and off-site analytical laboratory results.

PCE was detected in groundwater samples collected from eight of the 10 borings. Concentrations ranged from 3.9 J µg/L (BW-3) to 5900 µg/L (BW-4). Concentrations in samples collected from seven of the borings (BW-4 through BW-10), exceeded the NYS Class GA groundwater standard of 5 µg/L (Figure 4-1).

Concentrations of analytes other than PCE were detected at concentrations above the NYS Class GA groundwater standards in groundwater samples collected from seven of the ten borings. The highest concentrations detected for analytes other than PCE were detected in the sample from

boring BW-9. Analytes detected in boring BW-9, and corresponding NYS Class GA Groundwater standards are listed below.

Location BW-9		
Parameter	**Standard (µg/L)**	**Result (µg/L)**
Tetrachloroethene	5	483
Trichloroethene	5	580
cis-1,2-Dichloroethene	5	64,000
trans-1,2-Dichloroethene	5	580
1,1-Dichloroethene	5	80
Vinyl chloride	2	9,200
Toluene	5	46
Ethylbenzene	5	250
m,p-Xylene	5	170
o-Xylene	5	140

Reported concentrations of analytes detected in groundwater samples collected west (PA-1), southwest (BW-2), and southeast (BW-1) of the Site building were less than the NYS Class GA groundwater standards. Vinyl chloride was the only analyte detected (2.4 µg/L) above the NYS Class GA groundwater standard (2 µg/L) in the sample collected from boring BW-3, located east of the Site building.

The highest concentrations of VOCs detected in shallow groundwater occur near the northern corner of the Site building. Contamination in groundwater appears to be migrating off the Site. Six of the analytes detected in the sample collected from boring BW-6, located on the Oak Hill Country Club property, exceeded the NYS Class GA groundwater standards. Results for this sample are listed below:

Location BW-6		
Parameter	**Standard (µg/L)**	**Result (µg/L)**
Tetrachloroethene	5	2400
Trichloroethene	5	350
cis-1,2-Dichloroethene	5	2700
trans-1,2-Dichloroethene	5	31
1,1-Dichloroethene	5	5
Vinyl chloride	2	1200

Considering the high concentrations of PCE degradation products (PCE → TCE → cis-1,2-dichloroethene [DCE] → vinyl chloride), it appears reductive de-chlorination of the PCE is actively occurring. The petroleum hydrocarbon plume from the fuel oil spill appears to have migrated into the chlorinated solvent plume. Anaerobic conditions resulting from degradation of hydrocarbons are most likely contributing to the reductive degradation, allowing breakdown of the chlorinated solvents. Because cis-1,2-DCE and vinyl chloride are less readily degraded

under reducing conditions, net concentrations of these two compounds have apparently increased in the aquifer. As more oxygen becomes available in groundwater further downgradient of the Site, it is expected that these compounds would more rapidly degrade.

Due to the high turbidity of the groundwater samples, analytical results may include concentrations of solvents sorbed to the soil matrix, and may not give an absolute quantification of dissolved constituents.

4.3 SURFACE WATER AND SEDIMENT SAMPLE RESULTS

No VOCs were detected in the three surface water or sediment samples collected. Surface water results are presented in Table 4-2; sediment sample results are presented in Table 4-3.

4.4 POTENTIOMETRIC SURFACE MAP

Well and pond survey and depth to water measurements from September 26, 2002 were used to create a potentiometric surface map (Figure 4-2). Microwell survey and water elevation data are presented in Table 4-3. To preclude introduction of possibly false high water levels caused by heavy rains during the evening of September 26 and day of September 27, groundwater measurements collected on September 27, 2002 were not used for contouring groundwater data. Measured groundwater elevations on September 26 varied from a high of 433.24 feet above msl southwest of the Site buildings, to a low of 427.13 feet above msl at the golf course pond. Interpreted groundwater surface contours indicate that groundwater flows to the northeast. Because MW-7 was located adjacent to the public sewer lines, groundwater levels in MW-2 may be artificially high due to the presence of localized drainage in the gravel trenches of the utility lines.

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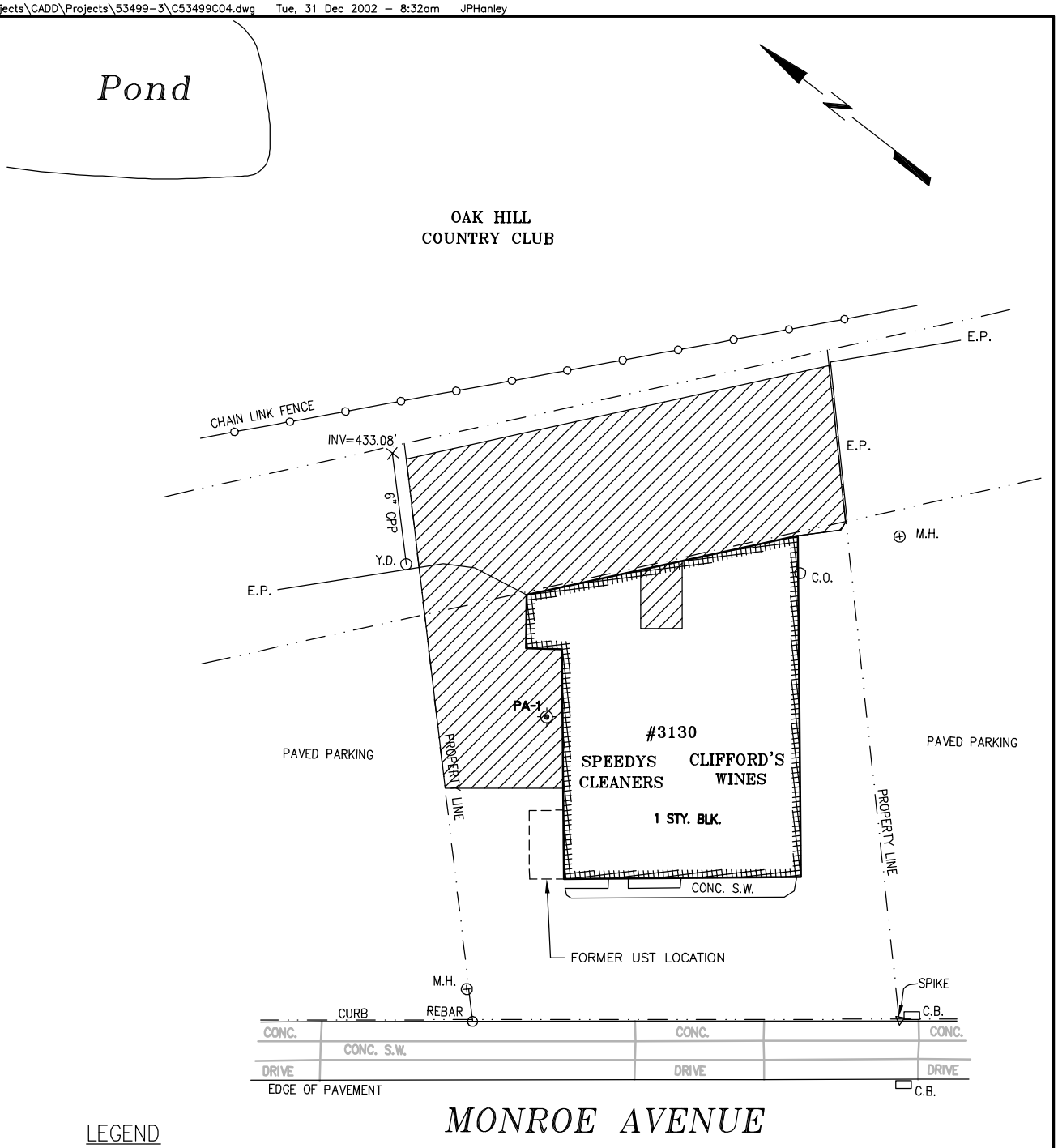

LEGEND

- APPROXIMATE AREA OF GEOPHYSICAL SURVEYING
- PA-1 — 2 INCH MONITORING WELL
- M.H. — MAN HOLE
- Y.D. — YARD DRAIN
- BUILDING LINE
- C.B. — CATCH BASIN
- C.O. — CLEAN OUT
- CHAIN LINK FENCE
- PROPERTY LINE
- E.P. — EDGE OF PAVEMENT

0 20 40

Scale in feet

FIGURE 3-1
AREA OF GEOPHYSICAL SURVEY
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

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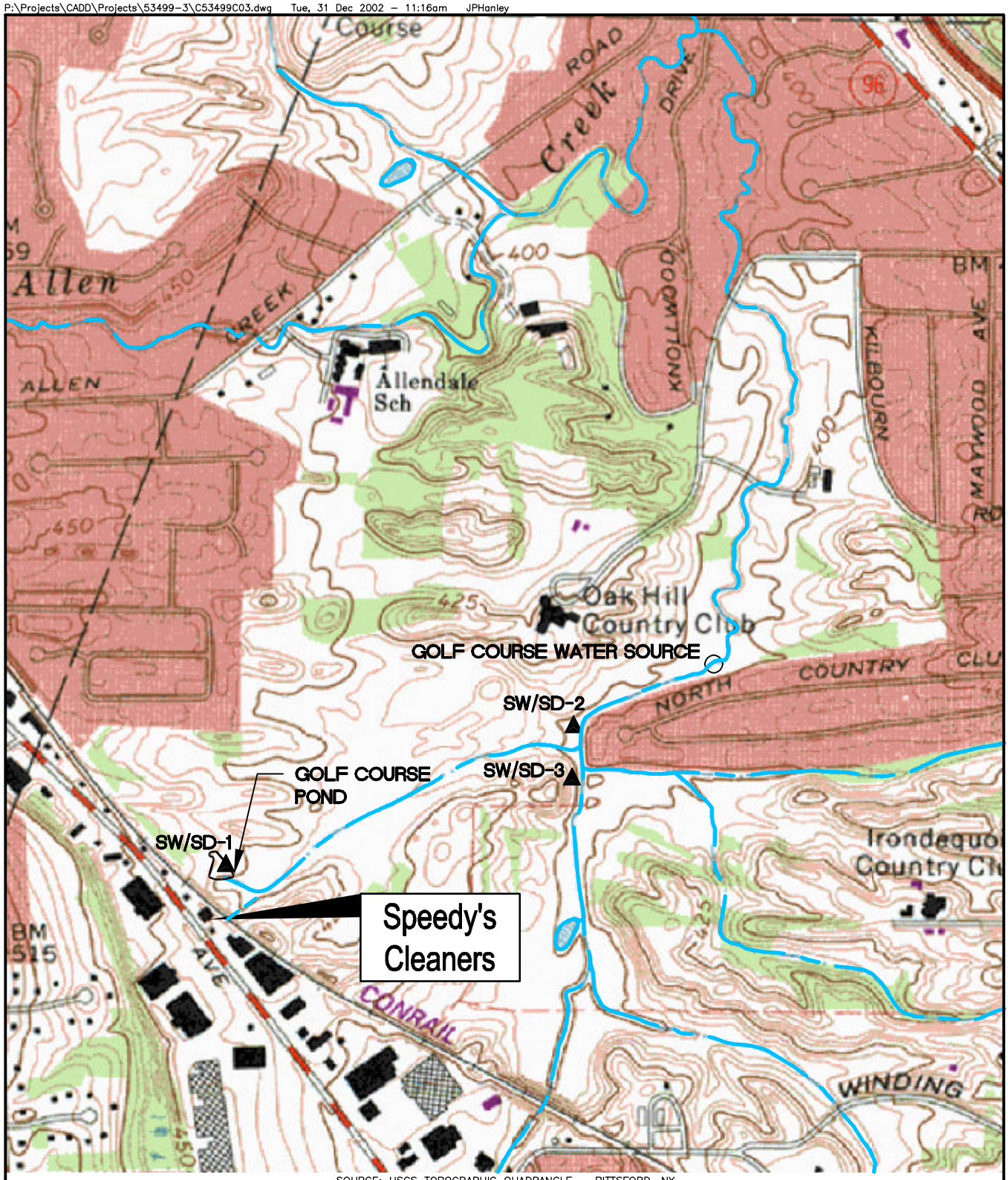

SW/SD-1 ▲ SURFACE WATER AND SEDIMENT SAMPLE LOCATION

SOURCE: USGS TOPOGRAPHIC QUADRANGLE - PITTSFORD, NY

QUADRANGLE LOCATION

0 500 1000

Scale in feet

FIGURE 3-2
SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

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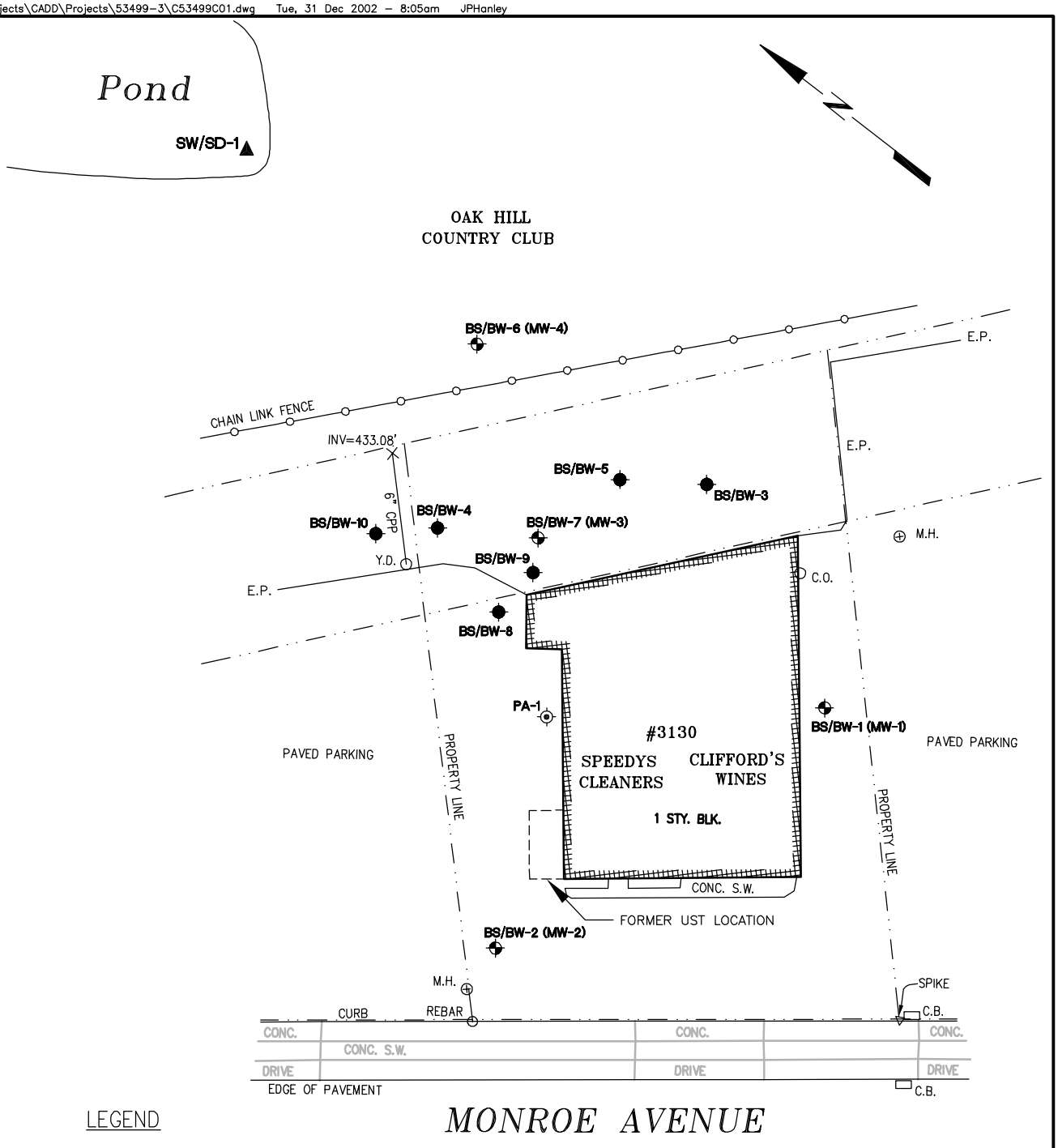

LEGEND

PA-1	2 INCH MONITORING WELL
BS/BW-1 (MW-1)	1 INCH MICROWELL
BS/BW-10	BORING LOCATION
SW/SD-1	SURFACE WATER & SEDIMENT SAMPLE LOCATION
M.H.	MAN HOLE
Y.D.	YARD DRAIN
	BUILDING LINE
C.B.	CATCH BASIN
C.O.	CLEAN OUT
	CHAIN LINK FENCE
	PROPERTY LINE
E.P.	EDGE OF PAVEMENT

0 20 40
Scale in feet

FIGURE 3-3
GEOPROBE BORING LOCATIONS
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

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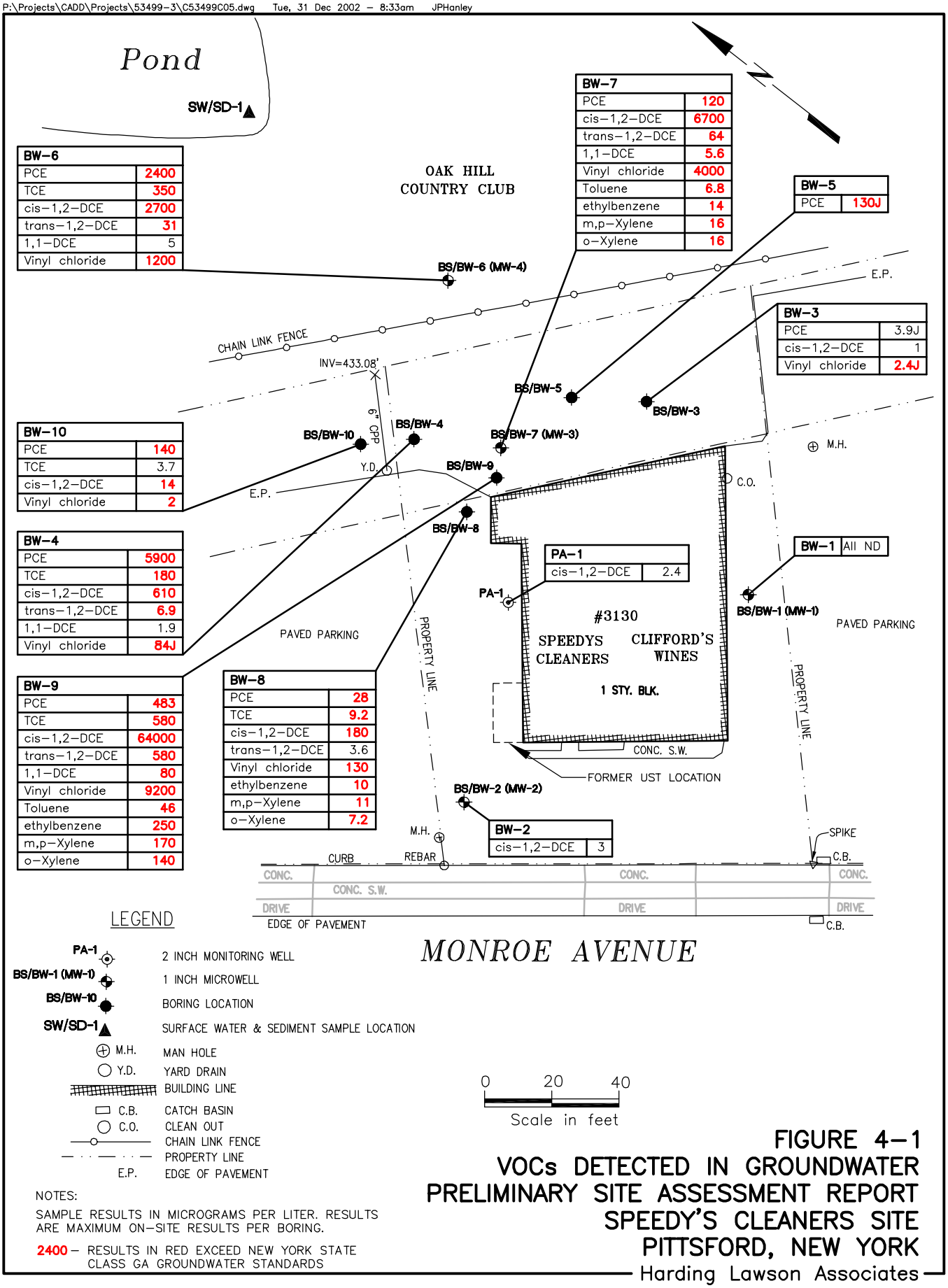

LEGEND

- PA-1 — 2 INCH MONITORING WELL
- BS/BW-1 (MW-1) — 1 INCH MICROWELL
- BS/BW-10 — BORING LOCATION
- SW/SD-1 — SURFACE WATER & SEDIMENT SAMPLE LOCATION
- M.H. — MAN HOLE
- Y.D. — YARD DRAIN
- BUILDING LINE
- C.B. — CATCH BASIN
- C.O. — CLEAN OUT
- CHAIN LINK FENCE
- PROPERTY LINE
- E.P. — EDGE OF PAVEMENT

NOTES:

SAMPLE RESULTS IN MICROGRAMS PER LITER. RESULTS ARE MAXIMUM ON-SITE RESULTS PER BORING.

2400 - RESULTS IN RED EXCEED NEW YORK STATE CLASS GA GROUNDWATER STANDARDS

0 20 40

Scale in feet

FIGURE 4-1
VOCs DETECTED IN GROUNDWATER
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

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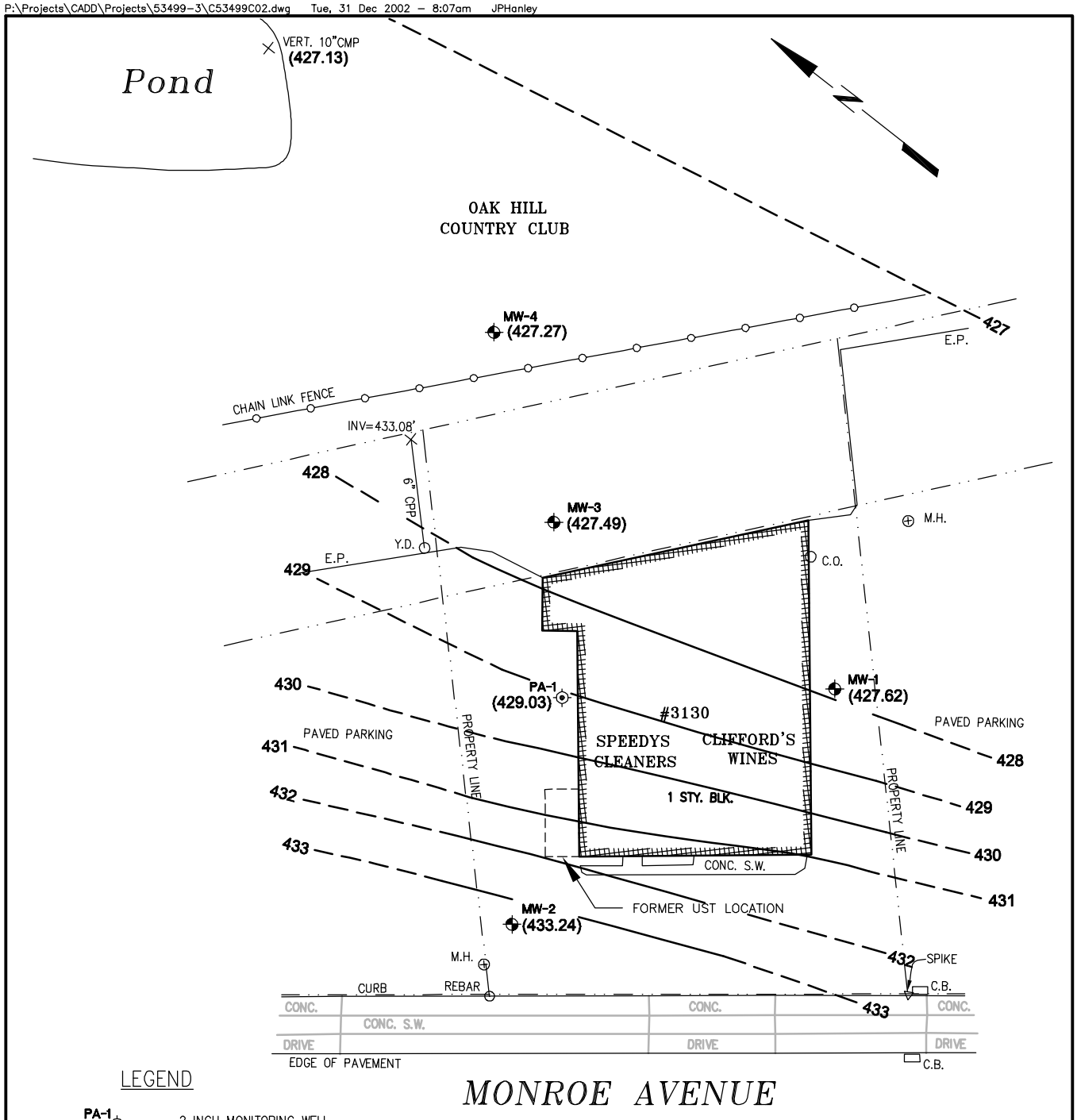


LEGEND

PA-1	2 INCH MONITORING WELL
MW-1	1 INCH MICROWELL
M.H.	MAN HOLE
Y.D.	YARD DRAIN
	BUILDING LINE
C.B.	CATCH BASIN
C.O.	CLEAN OUT
	CHAIN LINK FENCE
	PROPERTY LINE
431	APPROXIMATE GROUNDWATER CONTOUR ELEVATION
(427.62)	GROUNDWATER ELEVATION RESULT MEASURED AT WELL ON 9/26/02
E.P.	EDGE OF PAVEMENT

0 20 40
Scale in feet

FIGURE 4–2
POTENTIOMETRIC SURFACE MAP
PRELIMINARY SITE ASSESSMENT REPORT
SPEEDY'S CLEANERS SITE
PITTSFORD, NEW YORK

Harding Lawson Associates

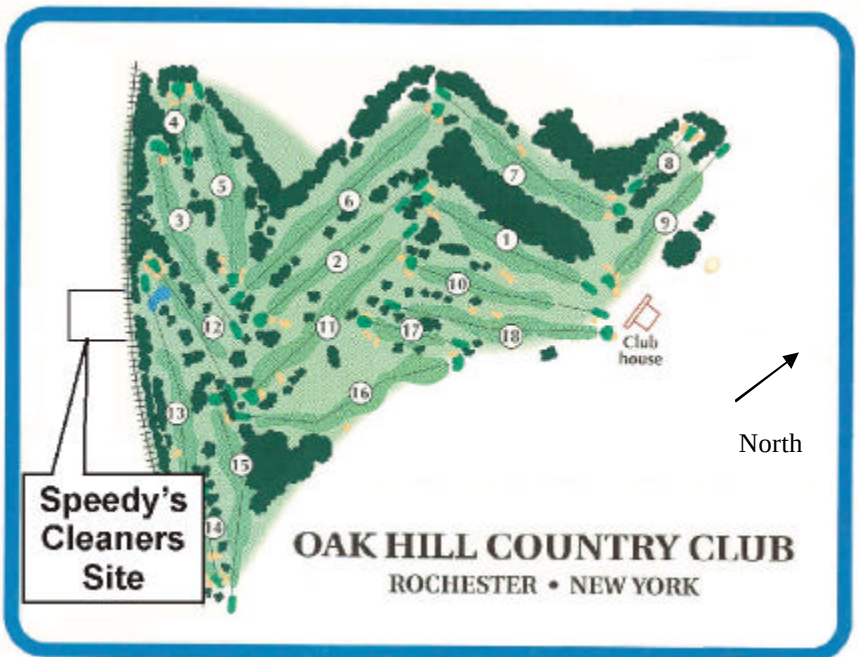
APPENDIX A

SITE PHOTOGRAPHS

SPEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK

Looking south from small pond on Oak Hill Country Club fairway #13 to Site



APPENDIX A

SITE PHOTOGRAPHS

SPEEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK

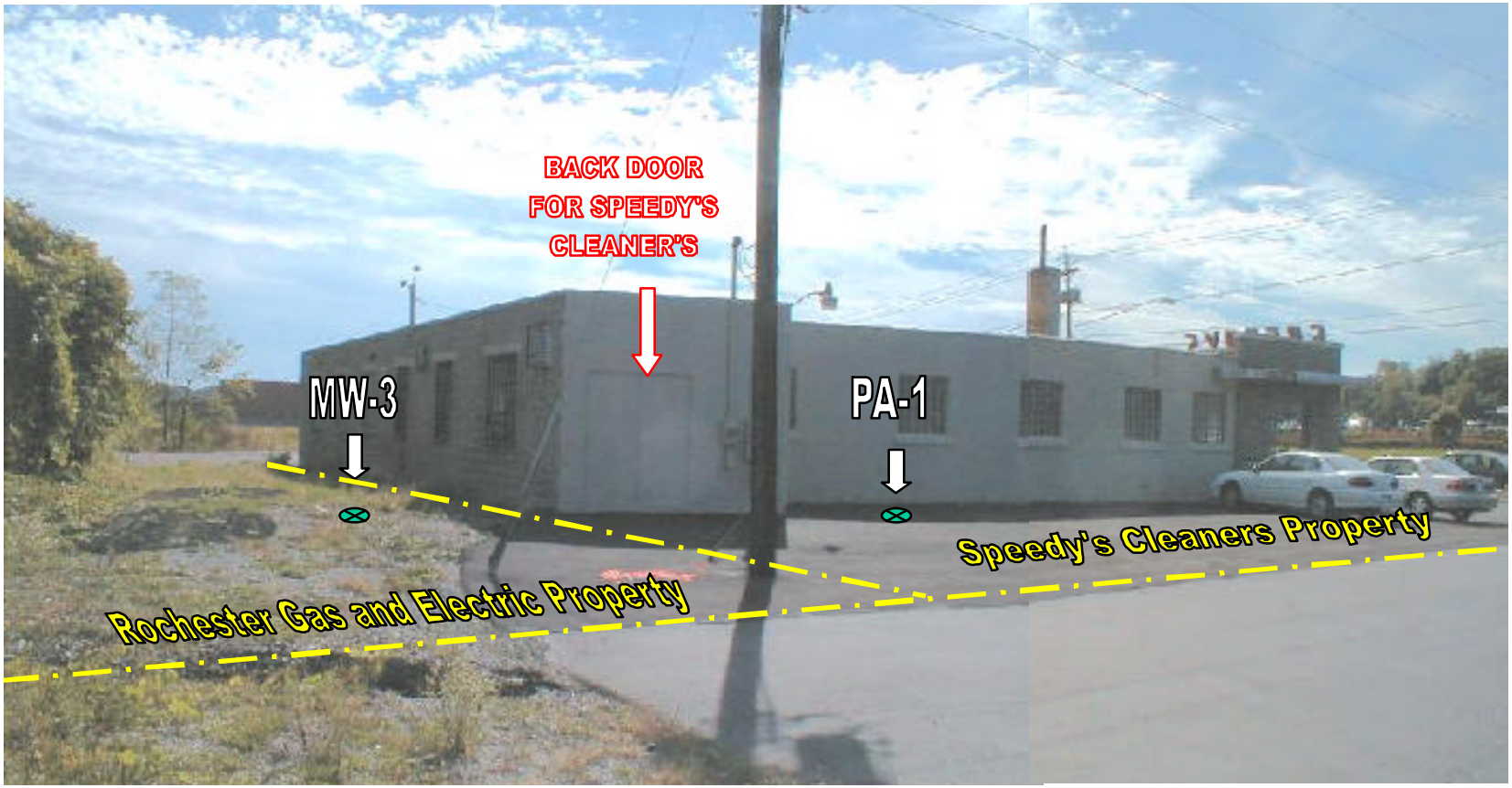
Looking northeast across Monroe Avenue towards Site

APPENDIX A

SITE PHOTOGRAPHS

SPEEEDY'S CLEANERS SITE

PITTSFORD, NEW YORK



View looking southwest at Site

Approximate property line location