





**State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES**

Jim Doyle, Governor  
Scott Hassett, Secretary  
Gloria L. McCutcheon, Regional Director

Waukesha Service Center  
141 NW Barstow St  
Waukesha, Wisconsin 53188  
Telephone 262-574-2100  
FAX 262-574-2117

February 7, 2005

Greg Roth  
Cedarburg Village Investment Partnership  
W148 N10293 Windsong Circle East  
Germantown, WI 53022

WDNR BRRTS #: 02-46-242188  
WDNR FID # 246068460

**SUBJECT:** Final Case Closure with Conditions Met  
Cedarburg Dry Cleaners, W62 N253 Washington Ave., Cedarburg, WI

Dear Mr. Roth:

On November 4, 2004, the Wisconsin Department of Natural Resources (Department) reviewed your site listed above for closure. The Department reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On November 9, 2004, you were notified that the Department had granted conditional closure to this case.

On January 24, 2005 the Department received correspondence indicating that you have complied with the conditions of closure which included waste and soil removal, providing an updated soil contaminant map, notifying the local municipality regarding the right-of-way groundwater contamination, and abandonment of monitoring wells. Based on the correspondence and data provided, it appears that your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code. The Department considers this case closed and no further investigation, remediation or other action is required at this time.

Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites for groundwater. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit <http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>

Please be aware that this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety or welfare, or the environment.

Provide the Department with the final DERF reimbursement application as soon as possible. If you have any questions regarding this letter, please contact me at 262-574-2146.

Sincerely,

Mark Drews, P.G., CHMM  
Hydrogeologist

Bureau for Remediation & Redevelopment



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Gloria L. McCutcheon, Regional Director

Waukesha Service Center  
141 NW Barstow St.  
Room 180  
Waukesha, Wisconsin 53188  
Telephone 262-574-2100  
FAX 262-574-2117

November 9, 2004

Greg Roth  
Cedarburg Village Investment Partnership  
W148 N10293 Windsong Circle East  
Germantown, WI 53022

FID # 246068460  
BRRTS # 02-46-242188

Subject: Conditional Case Closure  
Cedarburg Dry Cleaners  
W62 N253 Washington Avenue  
Cedarburg, WI.

Dear Mr. Roth:

On November 4, 2004, your request for closure of the case described above was reviewed by the Department of Natural Resources (Department) Regional Closure Committee. The Regional Closure Committee reviews environmental remediation cases for compliance with state rules and statutes to maintain consistency in the closure of these cases. After careful review of the closure request, the Closure Committee has determined that the chlorinated solvent (PCE) contamination on the site from the rear of the building appears to have been investigated and remediated to the extent practicable under site conditions. Your case has been remediated to Department standards in accordance with s. NR 726.05, Wis. Adm. Code and will be closed if the following conditions are satisfied:

### MONITORING WELL ABANDONMENT

The monitoring wells, piezometers, geoprobe injection points, infiltration gallery and other remediation system wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm.. Documentation of well abandonment must be submitted to Mark Drews on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dgw/gw/](http://www.dnr.state.wi.us/org/water/dgw/gw/) or provided by the Department of Natural Resources.

### WASTE AND SOIL PILE REMOVAL

Any remaining waste and/or soil piles generated as part of site investigation or remediation activities must be removed from the site and disposed of or treated in accordance with Department rules. Please send a letter advising me that any remaining waste and/or soil piles have been removed once that work is completed.

### UPDATED CONTAMINATED SOIL MAP

To close this site, the Department requires that an updated map depicting the soil data from the site investigation and remediation be included on one map and submitted to the Department. Provide the results from previously submitted maps on one map depicting remaining PCE concentrations on site. If these soils are removed in the future, they must be disposed and handled according to Department regulations.

RIGHT-OF-WAY GROUNDWATER CONTAMINATION

There is residual groundwater contamination in a public street or highway right-of-way based on historic results in MW-1A. Section NR 726.05(2)(b) 4, Wis. Adm. Code, requires you to provide written notification of the presence of residual groundwater contamination to the clerk of the town and county or municipality where the right-of-way is located and to the municipal department or state agency that maintains the right-of-way. Please provide me with a copy of the written notification.

Section NR 726.05(10) requires that the above conditions must be satisfied within 120 days of receipt of this conditional closure letter except for deed restrictions that comply with NR 726.05(8)(b), which must be recorded within 90 days of receipt of this letter. Please submit a letter to let me know that applicable conditions have been met and a final close out letter will be sent to you. Your site will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Information that was submitted with your closure request application will be included on the registry. To review the sites on the GIS Registry web page, visit [<http://gomapout.dnr.state.wi.us/org/at/et/geo/gwur/index.htm>].

Please be aware that the case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code, if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, or welfare or to the environment.

We appreciate your efforts to restore the environment at this site. If you have any questions regarding this letter, please contact me at 262-574-2146.

Sincerely,



Mark Drews, P.G., CHMM  
Hydrogeologist  
Bureau for Remediation & Redevelopment

Cc: Jim Drought, Arcadis Inc., 126 N. Jefferson St., Suite 400, Milwaukee, WI 53202  
Jack Traut, CVIP, 2028 Imperial Circle, Naples, FL 34110  
Jeff Soellner, WDNR Madison  
Gina Keenan, SER HQ  
SER File

323054

VOL 457 PAGE 174

TRANSFER  
1250

H. Wm. Trainor

conveys and warrants to Edegaard Traut and Isoide Roth  
and Gregory Roth and Jack Traut d/b/a  
Cedarburg Village Investment Company,  
a Wisconsin Co-Partnership

the following described real estate in Ozaukee County,  
State of Wisconsin:

RETURN TO  
Ozaukee National Bank  
P.O. Box 3  
Cedarburg, WI 53012

Tax Key No. 13-067-02-05-000

Lot Five (5) of Block Two (2) in Cedarburg  
Homestead, a subdivision in the North 1/2  
of the Southeast 1/4 of Section 34, Township  
10 North, Range 21 East, in the City of  
Cedarburg, Ozaukee County, Wisconsin.

This is not homestead property.  
(is) (is not)

Exception to warranties:

Dated this 18th day of November, 1980.

(SEAL)

(SEAL)

H. Wm. Trainor

(SEAL)

(SEAL)

AUTHENTICATION

Signatures authenticated this 18th day of  
November, 1980.

Harry Lensky

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not, authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Harry Lensky

(Signatures may be authenticated or acknowledged. Both  
are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN

ss.  
County.

Personally came before me, this \_\_\_\_\_ day of  
the above named \_\_\_\_\_

to me known to be the person \_\_\_\_\_ who executed the  
foregoing instrument and acknowledge the same.

Notary Public \_\_\_\_\_ County, Wis.  
My Commission is permanent. (If not, state expiration  
date: \_\_\_\_\_, 19\_\_\_\_\_)

DOCUMENT NO.

382292

STATE BAR OF WISCONSIN FORM 1-1982

WARRANTY DEED  
VOL 574 PAGE 168

THIS SPACE RESERVED FOR RECORDING DATA

RECORDED

This Deed, made between Edward N. Dehling, a  
married person

1986 DEC 30 PM 1:40

Grantor,  
and Colin Van Sluys and Carol A. Van Sluys, his wife

REGISTRAR OF DEEDS  
JANUARY 1987

TRANSFER  
\$ 430.50  
FEE

Grantee,  
Witnesseth, That the said Grantor, for a valuable consideration

conveys to Grantee the following described real estate in Ozaukee  
County, State of Wisconsin:

RETURN TO Colin Van Sluys  
242 High Forest Drive  
Cedarburg, WI 53012 \$ 6-

Tax Parcel No: 13-047-02-014-002

As per attached Schedule "A" which is attached hereto and made a part hereof  
as though fully set forth herein.

This is not homestead property.  
(is) (is not)

Together with all and singular the hereditaments and appurtenances thereunto belonging;  
And Edward N. Dehling  
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except easements and  
restrictions of record if any, and zoning ordinances and except taxes and assessments  
against said premises from and after January 1, 1986.

and will warrant and defend the same.

Dated this 30th day of December, 1985

(SEAL)

Edward N. Dehling (SEAL)

(SEAL)

Edward N. Dehling (SEAL)

(SEAL)

(SEAL)

AUTHENTICATION

Signature(s) \_\_\_\_\_

authenticated this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_

TITLE: MEMBER STATE BAR OF WISCONSIN

(If not authorized by § 706.06, Wis. Stats.)

THIS INSTRUMENT WAS DRAFTED BY

Lowell K. Levy, Attorney at Law

(Signatures may be authenticated or acknowledged. Both are not necessary.)

ACKNOWLEDGMENT

STATE OF WISCONSIN

Ozaukee County, ss.

Personally came before me this 30th day of  
December, 1985, the above named  
Edward N. Dehling

to me known to be the person who executed the foregoing instrument and acknowledge the same.

Lowell K. Levy  
Notary Public Ozaukee County, Wis.  
My Commission is permanent. (If not, state expiration date.)

\*Names of persons signing in any capacity of... or typed or printed below their signatures.

## SCHEDULE A

That part of Lot numbered Six (6), in Block numbered Two (2), in Cedarburg Homesteads, a Subdivision of part of the North One-Half (1/2) of the South East One-Quarter (1/4) of Section numbered Thirty-four (34), in Township numbered Ten (10) North, Range numbered Twenty-One (21) East, in the City of Cedarburg, County of Ozaukee and State of Wisconsin, bounded and described as follows: Beginning at a point in the North line of Fairfield Avenue due East 583.15 feet from the concrete monument located at the South West corner of Block 2; thence due North 115.10 feet; thence due East 151.75 feet; thence South 13 degrees 45 minutes West, 118.50 feet along the West line of the Cedarburg Plank Road, now known as S.T.H. 57; thence due West 123.58 feet along the North line of Fairfield Avenue to the place of beginning. The afore-described real estate constitutes the East 123.58 feet of the South line and the East 151.75 feet of the North line of Lot 6, Block 2, in Cedarburg Homesteads, City of Cedarburg.

# CITY OF CEDARBURG

SE 1/4 SEC 34 T10 R21

1" = 200'

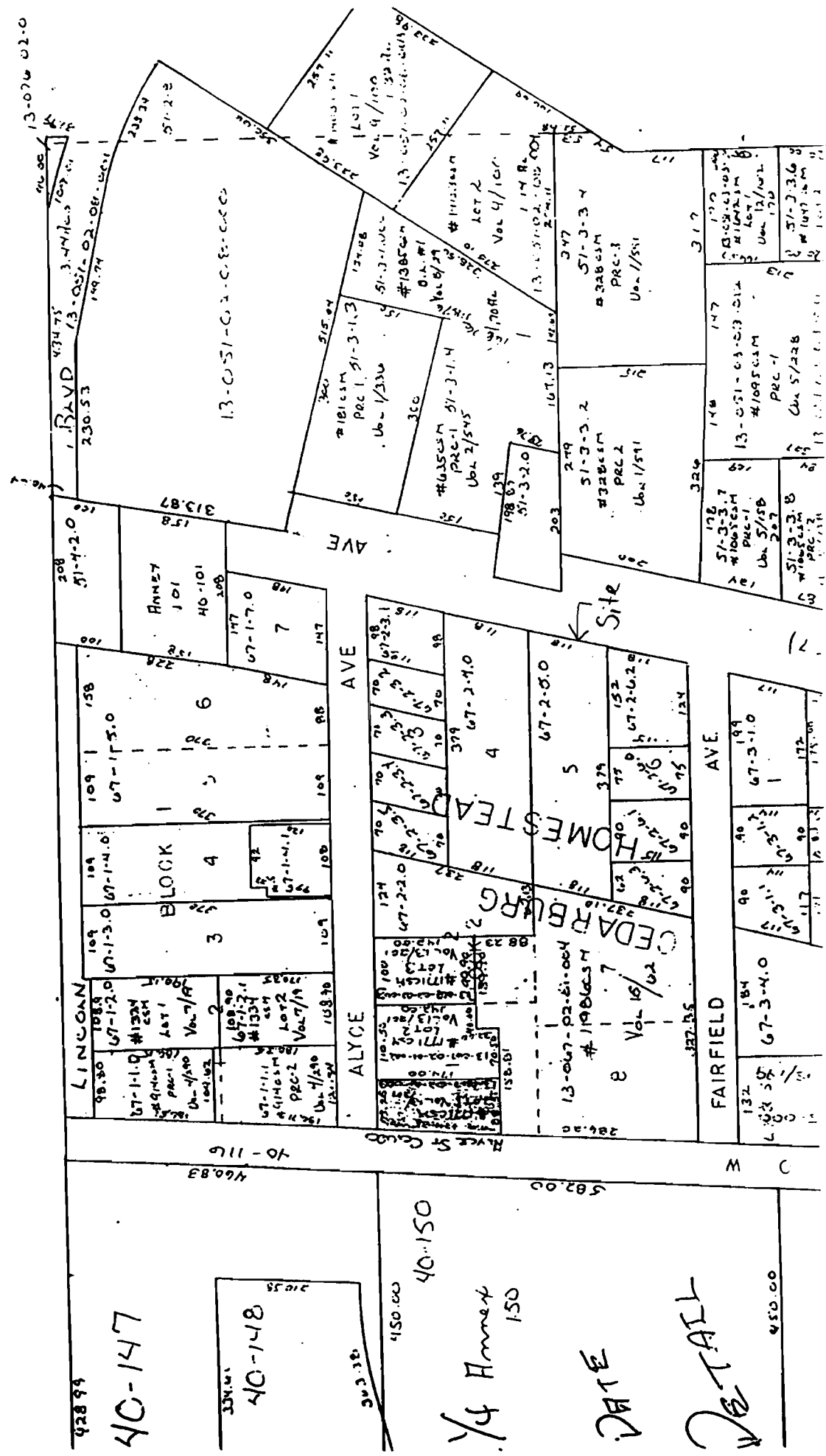
428 99  
40-147

334.01  
40-148  
303.38

450.00  
40-150  
150  
1/4 Annex

DATE

DETAILED





## **ATTACHMENT B-3**

Geographic Position Data  
WTM83/91

683294 , 314378

DRAFTER: ELS1.MB

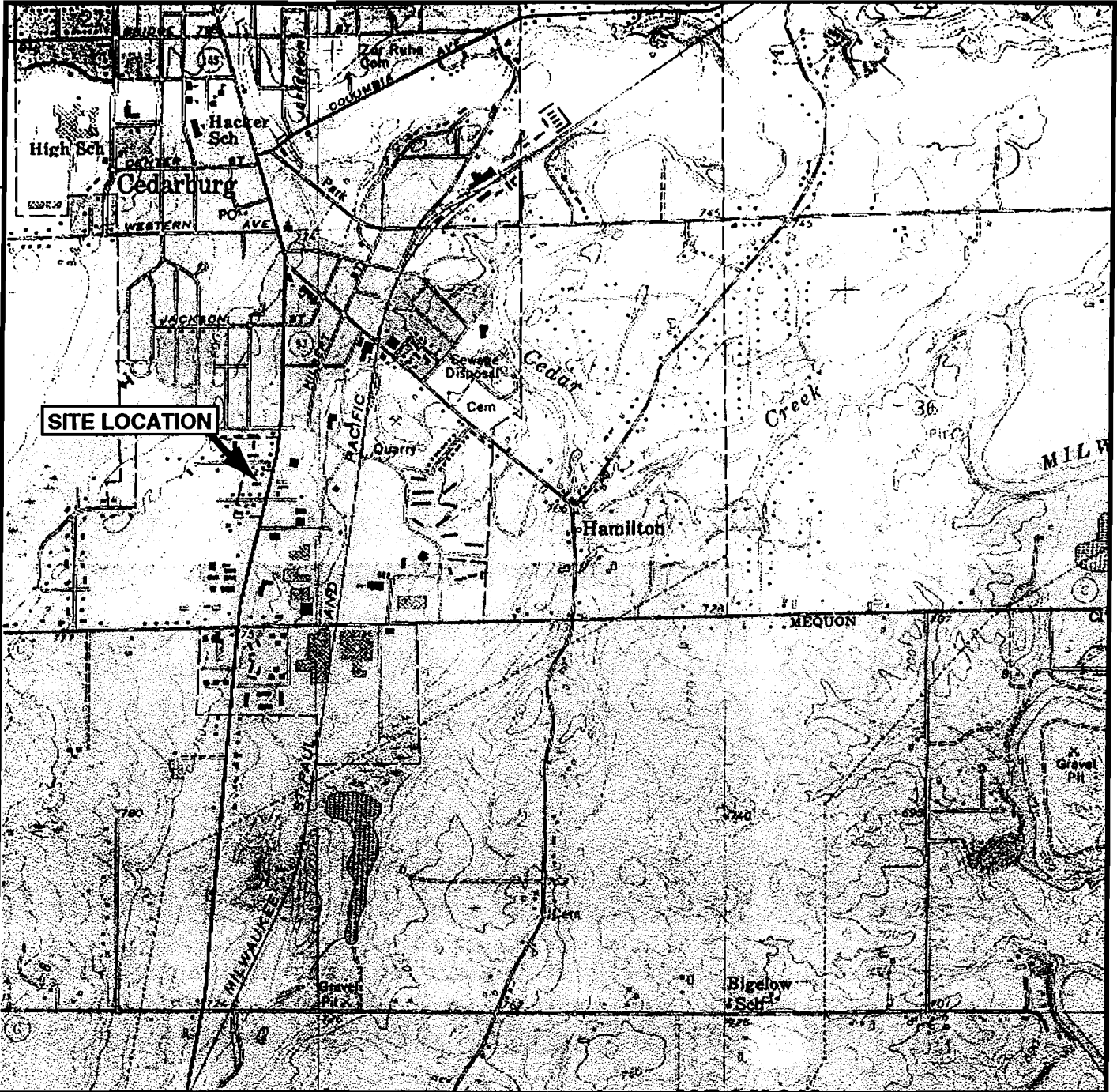
APPROVED:

CHECKED: WLM

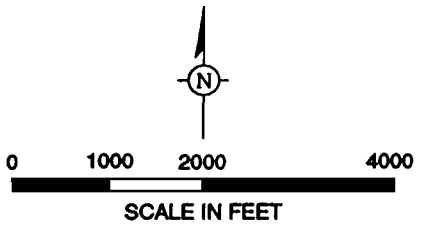
DRAWING: SITE\_LOC.A1

FILE NO.: GRAPHICS

DWG DATE: 12DEC02 | P#: CEDARBURG1W0761 | REMED



SOURCE: USGS 7.5 Minute Topographic Map, CEDARBURG, WISCONSIN Quadrangle, 1976



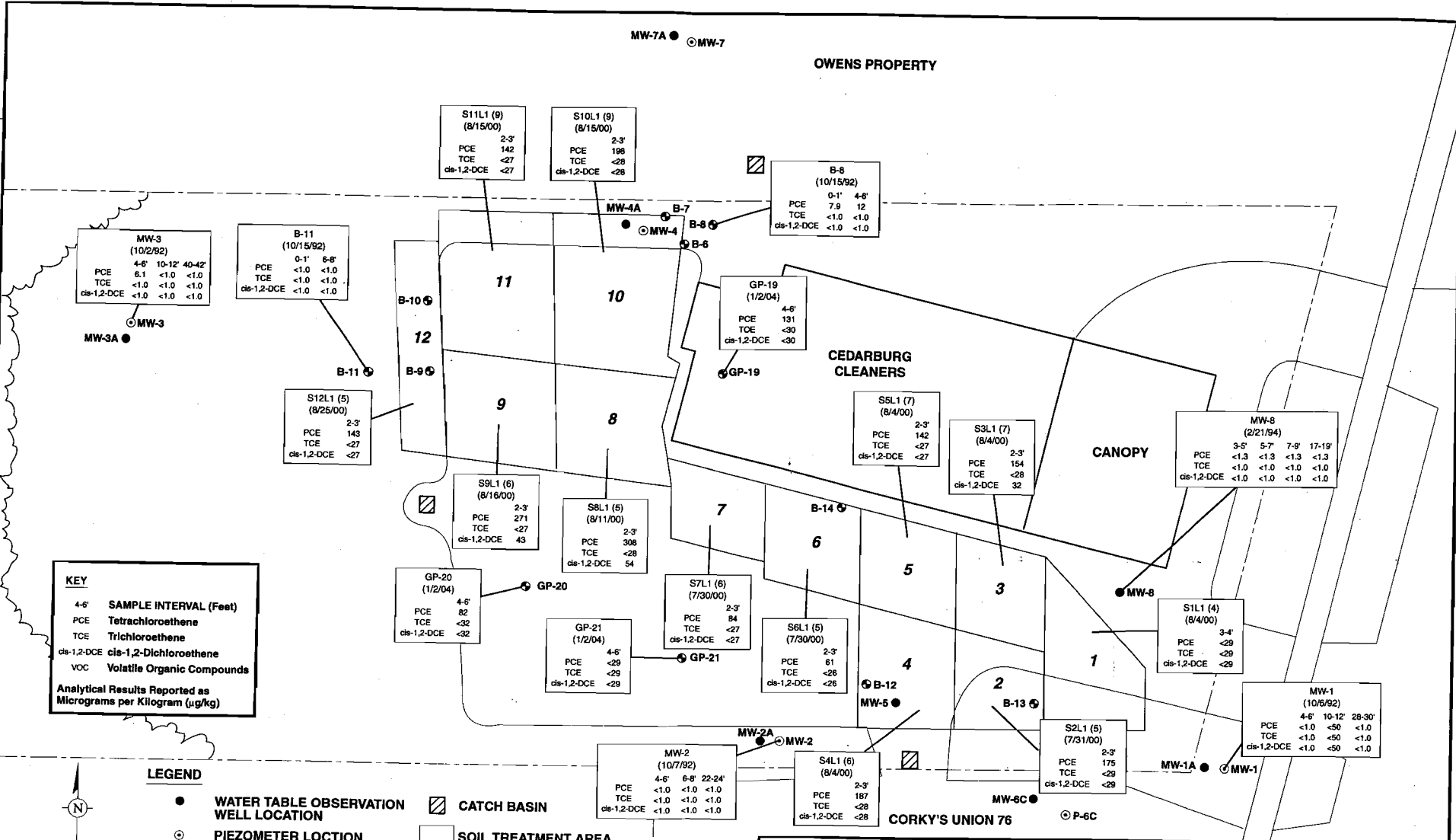
**SITE LOCATION MAP**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

FIGURE

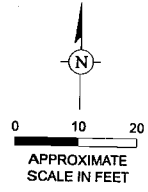
1

DWG DATE: 1JAN05 | PN: CEDARBURG\W0761\REM | FILE NO.: GRAPHICS | DRAWING: SUMMARY\_ANALY | CHECKED: CK | APPROVED: | DRAFTER: LMB



KEY	
4'-6"	SAMPLE INTERVAL (Feet)
PCE	Tetrachloroethene
TCE	Trichloroethene
cis-1,2-DCE	cis-1,2-Dichloroethene
VOC	Volatile Organic Compounds
Analytical Results Reported as Micrograms per Kilogram (µg/kg)	

- LEGEND**
- WATER TABLE OBSERVATION WELL LOCATION
  - ⊙ PIEZOMETER LOCATION
  - ⊕ BORING LOCATION
  - ▭ CATCH BASIN
  - ▭ SOIL TREATMENT AREA
  - 1 CELL NUMBER
  - PROPERTY BOUNDARY



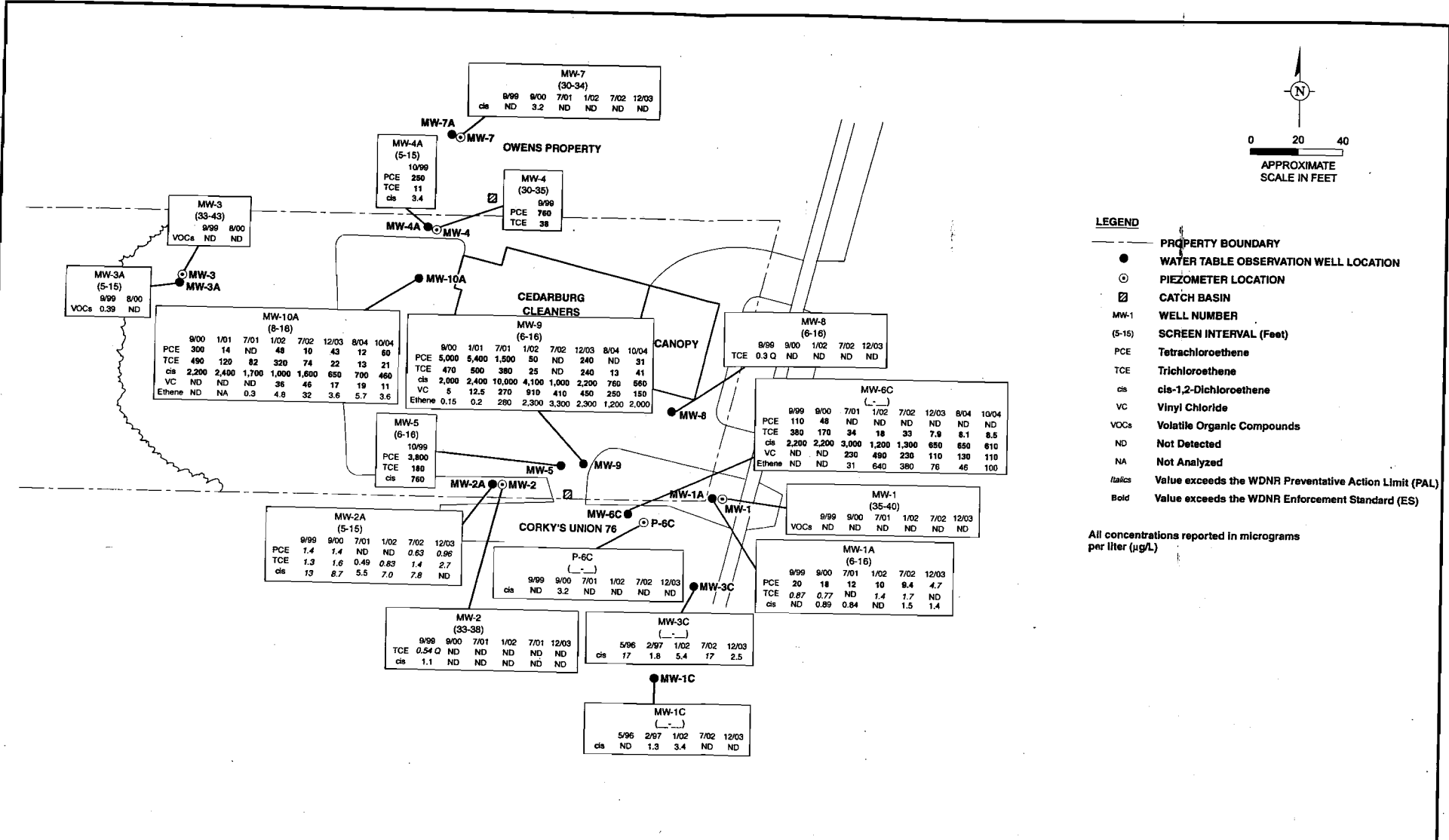
**SUMMARY OF SOIL ANALYTICAL RESULTS REMAINING IN-PLACE**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

FIGURE  
**1**

SOURCE: Key Environmental, Semi-Annual Report, January 1998.

DWG DATE: 18OCT04 | FILE NO.: GRAPHICS | DRAWING: GW\_RESULTS\_1004.A1 | CHECKED: CK | APPROVED: | DRAFTER: LMB



SOURCE: Key Environmental, Semi-Annual Report, January 1998.



**GROUNDWATER ANALYTICAL RESULTS**

**FIGURE**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

**2**

# ARCADIS

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-1											
	11/08/92	11/24/92	02/12/93	09/23/93	09/06/94	02/14/95	07/07/95	05/21/96	10/03/97	09/28/99	09/28/00	
<b>VOCs</b>												
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.2	<0.5	<0.5	<1.0	<1.0	<0.27	<0.25	<0.25	
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0	<0.4	<0.18	<1.0	<1.0	<0.20	<0.25	<0.25	
cis-1, 2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	NA	<0.75	<1.0	<1.0	<0.28	<0.25	<0.25	
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	NA	<0.29	<1.0	<1.0	<0.25	<0.25	<0.25	
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	NA	NA	NA	<0.23	<0.25	<0.25	
<b>Dissolved Gases</b>												
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61	3.4	
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2	<0.2	
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.3	<0.3	
<b>Natural Attenuation Parameters</b>												
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.08	0.18	
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	NA	NA	NA	-98.2	-39.7	
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.11	7.21	

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

# ARCADIS

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-1 (continued)				MW-1A						
	07/03/01	01/14/02	07/17/02	12/01/03	11/08/92	11/24/92	02/12/93	06/25/93	09/23/93	11/05/93	02/28/94
<b>VOCs</b>											
Tetrachloroethene (PCE)	<0.25	<0.25	<0.25	<0.45	<1.0	<1.0	<1.0	<1.0	<i>1.6</i>	<1.2	<i>2</i>
Trichloroethene (TCE)	<0.25	<0.25	<0.25	<0.48	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.4
cis-1, 2-Dichloroethene	<0.25	<0.25	<0.25	<0.83	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.6
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.89	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<0.50
Vinyl Chloride (VC)	<0.25	<0.25	<0.25	<0.18	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>											
Methane	NA	NA	NA	37	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	0.047	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	2	NA	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	0.08	0.08	NA <sup>1</sup>	0.14	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	-23.6	-36.2	NA <sup>1</sup>	-55.90	NA	NA	NA	NA	NA	NA	NA
pH	7.11	7.10	NA <sup>1</sup>	7.20	NA	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.

Sample I.D. Sample Date	MW-1A (continued)									
	09/06/94	02/14/95	07/07/95	05/21/96	02/26/97	10/03/97	09/29/99	09/28/00	07/03/01	01/16/02
<b>VOCs</b>										
Tetrachloroethene (PCE)	<0.5	<0.5	<i>1.8</i>	<b>5.4</b>	<0.3	<b>15</b>	<b>20</b>	<b>18</b>	<b>12</b>	<b>10</b>
Trichloroethene (TCE)	<0.4	<0.18	<1.0	<1.0	<0.2	<i>0.56</i>	<i>0.87</i>	<i>0.77</i>	<0.25	<i>1.4</i>
cis-1, 2-Dichloroethene	<0.8	<0.75	<1.0	1	<0.3	0.46	<0.25	0.89	0.84	<0.25
trans-1,2-Dichloroethene	<0.50	<0.29	<1.0	<1.0	<0.3	<0.25	<0.25	<0.25	<0.25	<0.25
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	<0.23	<0.25	<0.25	<0.25	<0.25
<b>Dissolved Gases</b>										
Methane	NA	NA	NA	NA	NA	NA	<0.5	1.5	0.089	0.200
Ethane	NA	NA	NA	NA	NA	NA	<0.2	<0.2	<0.0050	<0.005
Ethene	NA	NA	NA	NA	NA	NA	<0.3	<0.3	<0.0050	<0.005
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	0.21	0.17	0.35	2.47
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	67.6	49.0	61.0	-2.0
pH	NA	NA	NA	NA	NA	NA	7.01	7.04	7.04	6.99

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

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NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

# ARCADIS

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-1A (continued)		MW-1C							
	07/19/02	12/02/03	10/10/91	11/14/91	07/10/95	05/22/96	02/26/97	01/15/02	07/18/02	12/02/03
<b>VOCs</b>										
Tetrachloroethene (PCE)	<b>9.4</b>	4.7	<b>24</b>	<1	<20	<20	<0.6	<0.25	<5.0	<0.45
Trichloroethene (TCE)	1.7	<0.48	<1	---	<20	<20	<1.4	<0.25	<5.0	<0.48
cis-1, 2-Dichloroethene	1.5	1.4	---	---	<i>31</i>	<20	1.3	3.4	<5.0	<0.83
trans-1,2-Dichloroethene	<0.25	<0.89	<1	---	<20	<20	<0.6	<0.25	<5.0	<0.89
Vinyl Chloride (VC)	<0.25	<0.18	NA	NA	NA	NA	NA	<0.25	<5.0	<0.18
<b>Dissolved Gases</b>										
Methane	20	31	NA	NA	NA	NA	NA	NA	NA	140
Ethane	<0.005	0.029	NA	NA	NA	NA	NA	NA	NA	0.9
Ethene	<0.005	1.2	NA	NA	NA	NA	NA	NA	NA	0.74
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	0.17	2.04	NA	NA	NA	NA	NA	0.15	0.16	0.09
Oxidation Reduction Pot.	13	100.9	NA	NA	NA	NA	NA	-136.3	-64.9	-105.6
pH	7.14	7.18	NA	NA	NA	NA	NA	7.07	7.14	7.18

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

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NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.



# ARCADIS

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-2									
	11/08/92	11/24/92	02/12/93	09/23/93	09/06/94	02/13/95	07/07/95	05/21/96	10/03/97	09/30/99
<b>VOCs</b>										
Tetrachloroethene (PCE)	<1.0	<1.0	<1.0	<1.2	<0.5	<0.5	<1.0	<1.0	<0.27	<0.25
Trichloroethene (TCE)	<1.0	<1.0	<1.0	<1.0	<0.4	<0.18	<1.0	<1.0	<0.20	<i>0.54Q</i>
cis-1, 2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<0.8	<0.75	<1.0	<1.0	<0.28	1.1
trans-1,2-Dichloroethene	<1.0	<1.0	<1.0	<1.0	<0.5	<0.29	<1.0	<1.0	<0.25	<0.25
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	NA	NA	NA	<0.23	<0.25
<b>Dissolved Gases</b>										
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.5
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.3
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.12
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	NA	NA	NA	-124.2
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.00

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

# ARCADIS

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-2 (continued)					MW-2A					
	09/26/00	07/03/01	01/14/02	07/17/02	12/01/03	11/08/92	11/24/92	02/12/93	06/25/93	09/23/93	03/01/94
<b>VOCs</b>											
Tetrachloroethene (PCE)	<0.25	<0.25	<0.25	<0.25	<0.45	<1.0	<1.0	<1.0	<1.0	<1.2	<i>1.4</i>
Trichloroethene (TCE)	<0.25	<0.25	<0.25	<0.25	<0.48	<1.0	<1.0	<1.0	<1.0	<1.0	<0.4
cis-1, 2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.83	<1.0	<1.0	<1.0	<1.0	<1.0	<0.8
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.25	<0.89	<1.0	<1.0	<1.0	<1.0	<1.0	<0.5
Vinyl Chloride (VC)	<0.25	<0.25	<0.25	<0.25	<0.18	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>											
Methane	2.2	NA	NA	NA	6.7	NA	NA	NA	NA	NA	NA
Ethane	<0.2	NA	NA	NA	0.026	NA	NA	NA	NA	NA	NA
Ethene	<0.3	NA	NA	NA	0.65	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	0.14	0.10	0.13	0.38	0.11	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	-73.4	-24.0	-36.0	65.1	-45.0	NA	NA	NA	NA	NA	NA
pH	7.19	7.15	7.14	7.27	7.32	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D.	MW-2A (continued)									
Sample Date	09/06/94	02/14/95	07/07/95	05/21/96	02/26/97	10/03/97	09/30/99	09/26/00	07/03/01	01/16/02
<b>VOCs</b>										
Tetrachloroethene (PCE)	<0.5	<0.5	2.7	3.6	<0.3	<b>5.5</b>	1.4	1.4	<0.25	<0.25
Trichloroethene (TCE)	<0.4	<0.18	<1.0	<1.0	<0.2	0.26	1.3	1.6	0.49	0.83
cis-1, 2-Dichloroethene	<0.8	<0.75	<1.0	<1.0	<0.3	<0.26	13	8.7	5.5	7.0
trans-1,2-Dichloroethene	<0.5	<0.29	<1.0	<1.0	<0.3	<0.25	<0.25	<0.25	<0.25	<0.25
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	<0.23	<0.25	<0.25	<0.25	<0.25
<b>Dissolved Gases</b>										
Methane	NA	NA	NA	NA	NA	NA	40	17	0.062	0.015
Ethane	NA	NA	NA	NA	NA	NA	<0.2	<0.2	<0.0050	0.013
Ethene	NA	NA	NA	NA	NA	NA	<0.3	<0.3	<0.0050	0.023
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	0.05	0.25	0.62	0.49
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	-46.5	-125.6	-127.9	-87.9
pH	NA	NA	NA	NA	NA	NA	7.15	7.05	7.10	6.90

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

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--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.

Sample I.D. Sample Date	MW-2A (continued)		MW-3								
	07/19/02	12/01/03	11/08/92	11/24/92	02/12/93	09/23/93	09/02/94	02/13/95	07/07/95	05/21/96	10/03/97
<b>VOCs</b>											
Tetrachloroethene (PCE)	<i>0.63</i>	<i>0.96</i>	<1.0	<1.0	<1.0	<1.2	<0.5	<0.5	<1.0	<1.0	<0.27
Trichloroethene (TCE)	<i>1.4</i>	<i>2.7</i>	<1.0	<1.0	<1.0	<1.0	<0.4	<0.18	<1.0	<1.0	<0.20
cis-1, 2-Dichloroethene	<i>7.8</i>	<0.83	<1.0	<1.0	<1.0	<1.0	<0.8	<0.75	<1.0	<1.0	<0.28
trans-1,2-Dichloroethene	<0.25	<0.89	<1.0	<1.0	<1.0	<1.0	<0.5	<0.29	<1.0	<1.0	<0.25
Vinyl Chloride (VC)	<0.25	<0.18	NA	NA	NA	NA	NA	NA	NA	NA	<0.23
<b>Dissolved Gases</b>											
Methane	33	7.4	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	0.013	0.033	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	0.062	0.76	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	0.15	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	-86.3	-92.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	7.12	7.14	NA	NA	NA	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

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NA Not analyzed or data not available.

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Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-3 (continued)		MW-3A							
	09/28/99	08/30/00	11/08/92	11/24/92	02/12/93	09/23/93	09/06/94	02/13/95	07/10/95	05/21/96
<b>VOCs</b>										
Tetrachloroethene (PCE)	<0.25	<0.25	<1.0	<1.0	<1.0	<1.2	<0.5	<0.5	<1.0	<1.0
Trichloroethene (TCE)	<0.25	<0.25	<1.0	<1.0	<1.0	<1.0	<0.4	<0.18	<1.0	<1.0
cis-1, 2-Dichloroethene	<0.25	<0.25	<1.0	<1.0	<1.0	<1.0	<0.8	<0.75	<1.0	<1.0
trans-1,2-Dichloroethene	<0.25	<0.25	<1.0	<1.0	<1.0	<1.0	<0.5	<0.29	<1.0	<1.0
Vinyl Chloride (VC)	<0.25	<0.25	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>										
Methane	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	<0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	0.10	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	-122.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	7.15	NA	NA	NA	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

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ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-3A (continued)			MW-3C							
	10/03/97	09/28/99	08/30/00	10/10/91	11/14/91	07/10/95	05/22/96	02/26/97	01/15/02	07/18/02	12/01/03
<b>VOCs</b>											
Tetrachloroethene (PCE)	<0.27	<0.25	<0.25	<b>12</b>	<1	<1.0	<2.0	<0.3	<0.25	<0.25	<0.45
Trichloroethene (TCE)	<0.20	<0.25	<0.25	<1	NA	<1.0	<2.0	<0.2	<0.25	<0.25	<0.48
cis-1, 2-Dichloroethene	<0.28	<0.25	<0.25	NA	NA	6.6	17	1.8	5.4	17	2.5
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<1	NA	<1.0	<2.0	<0.3	<0.25	<0.25	<0.89
Vinyl Chloride (VC)	<0.23	<0.25	<0.25	NA	NA	NA	NA	NA	<0.25	<0.25	<0.18
<b>Dissolved Gases</b>											
Methane	NA	<0.5	NA	NA	NA	NA	NA	NA	NA	NA	16
Ethane	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	NA	0.01
Ethene	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	0.022
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	2.80	NA	NA	NA	NA	NA	NA	0.08	0.17	0.43
Oxidation Reduction Pot.	NA	77.9	NA	NA	NA	NA	NA	NA	-164.5	55.0	18.1
pH	NA	7.04	NA	NA	NA	NA	NA	NA	7.06	7.13	7.14

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D.	MW-4										
Sample Date	11/10/92	11/24/92	02/12/93	06/25/93	09/23/93	03/01/94	09/06/94	02/14/95	07/10/95	05/22/96	02/26/97
<b>VOCs</b>											
Tetrachloroethene (PCE)	1,400	2,100	2,200	2,300	2,100	1,400	1,200	1,600	1,600	1,200	1,300
Trichloroethene (TCE)	67	85	<100	190	130	52	86	61	78	55	16
cis-1, 2-Dichloroethene	90	32	<100	<100	<100	<40	<40	19	20	<20	18
trans-1,2-Dichloroethene	<25	<20	<100	<100	<100	<25	<25	<2.9	<10	<20	<3.0
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>											
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-4A (continued)										
	10/03/97	10/01/99	11/08/92	11/24/92	02/12/93	09/23/93	03/01/94	09/06/94	02/14/95	06/25/95	07/07/95
<b>VOCs</b>											
Tetrachloroethene (PCE)	<b>1,400</b>	<b>760</b>	<b>4,900</b>	<b>3,000</b>	<b>3,700</b>	<b>1,800</b>	<b>640</b>	<b>330</b>	<b>790</b>	<b>2,100</b>	<b>660</b>
Trichloroethene (TCE)	<b>51</b>	<b>38</b>	<100	<20	<200	<50	<10	<10	<0.9	<100	<b>6.6</b>
cis-1, 2-Dichloroethene	<i>8.9</i>	<5.0	<100	<20	<200	<50	<20	<20	<3.8	<100	<5.0
trans-1,2-Dichloroethene	<2.5	<5.0	<100	<20	<200	<50	<12	<12	<1.4	<100	<5.0
Vinyl Chloride (VC)	NA	<5.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>											
Methane	NA	1.0	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethane	NA	<0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethene	NA	<0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	1.24	NA	NA	NA	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	NA	90.2	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	NA	7.91	NA	NA	NA	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.



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**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-4A (continued)				MW-5					
	05/21/96	02/26/97	10/03/97	10/01/99	11/08/92	11/24/92	02/12/93	06/25/93	09/23/93	03/01/94
<b>VOCs</b>										
Tetrachloroethene (PCE)	370	1,600	670	250	16,000	13,000	25,000	14,000	17,000	10,000
Trichloroethene (TCE)	5.8	57	11	11	410	<250	<500	<500	<400	<80
cis-1, 2-Dichloroethene	<5.0	8.5	4.8	3.4	1,500	410	1,100	<500	1,200	830
trans-1,2-Dichloroethene	<5.0	<3.0	<1.2	<1.2	<200	<250	<500	<500	<400	<100
Vinyl Chloride (VC)	NA	NA	<1.2	<1.2	NA	NA	NA	NA	NA	NA
<b>Dissolved Gases</b>										
Methane	NA	NA	NA	<0.5	NA	NA	NA	NA	NA	NA
Ethane	NA	NA	NA	<0.2	NA	NA	NA	NA	NA	NA
Ethene	NA	NA	NA	<0.3	NA	NA	NA	NA	NA	NA
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	NA	NA	NA	0.15	NA	NA	NA	NA	NA	NA
Oxidation Reduction Pot.	NA	NA	NA	98.5	NA	NA	NA	NA	NA	NA
pH	NA	NA	NA	6.97	NA	NA	NA	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-5 (continued)							MW-6C		
	09/06/94	02/14/95	07/07/95	05/22/96	02/26/97	10/03/97	10/01/99	12/16/91	04/01/92	05/22/96
<b>VOCs</b>										
Tetrachloroethene (PCE)	1,600	2,800	7,200	6,800	6,400	5,400	3,800	460	1,000	980
Trichloroethene (TCE)	<100	240	260	180	240	330	180	850	850	810
cis-1, 2-Dichloroethene	540	700	740	570	530	890	760	---	---	1,000
trans-1,2-Dichloroethene	<120	<2.9	<100	<50	<15	<12	<20	<100	9	<10
Vinyl Chloride (VC)	NA	NA	NA	NA	NA	<12	<20	NA	NA	NA
<b>Dissolved Gases</b>										
Methane	NA	NA	NA	NA	NA	NA	15	NA	NA	NA
Ethane	NA	NA	NA	NA	NA	NA	<0.2	NA	NA	NA
Ethene	NA	NA	NA	NA	NA	NA	<0.3	NA	NA	NA
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	0.12	NA	NA	NA
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	90.0	NA	NA	NA
pH	NA	NA	NA	NA	NA	NA	6.82	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

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ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-6C (continued)										P-6C
	02/26/97	10/03/97	09/30/99	09/27/00	07/03/01	01/17/02	07/22/02	12/02/03	08/18/04	10/11/04	05/22/96
<b>VOCs</b>											
Tetrachloroethene (PCE)	<b>190</b>	<b>130</b>	<b>110</b>	<b>48</b>	<12	<12	<6.2	<2.2	<4.5	<4.5	<1.0
Trichloroethene (TCE)	<b>640</b>	<b>610</b>	<b>380</b>	<b>170</b>	<b>34</b>	<b>18</b>	<b>33</b>	<b>7.9</b>	<b>8.1</b>	<b>8.5</b>	<1.0
cis-1, 2-Dichloroethene	<b>1,800</b>	<b>2,200</b>	<b>2,200</b>	<b>2,200</b>	<b>3,000</b>	<b>1,200</b>	<b>1,300</b>	<b>650</b>	<b>650</b>	<b>610</b>	<1.0
trans-1,2-Dichloroethene	8.3	11	<20	<20	20	<12	<6.2	5.1	<8.9	<8.9	<1.0
Vinyl Chloride (VC)	NA	NA	<20	<20	<b>230</b>	<b>490</b>	<b>230</b>	<b>110</b>	<b>130</b>	<b>110</b>	NA
<b>Dissolved Gases</b>											
Methane	NA	NA	250	660	930	670	1,900	1,200	530	800	NA
Ethane	NA	NA	<0.2	<0.2	0.0093	2.4	75	54	27	38	NA
Ethene	NA	NA	<0.3	<0.3	31	640	380	76	46	100	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	NA	0.32	0.22	0.86	0.23	0.17	0.06	0.47	0.08	NA
Oxidation Reduction Pot.	NA	NA	-38.1	-81.4	-37.9	-100.0	-31.7	-94.3	-56.8	-44.1	NA
pH	NA	NA	6.87	6.97	6.81	6.78	6.99	6.95	6.74	6.66	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	P-6C (continued)								MW-7		
	02/26/97	10/03/97	09/30/99	09/27/00	07/03/01	01/15/02	07/18/02	12/01/03	3/1/94	9/2/94	2/13/95
<b>VOCs</b>											
Tetrachloroethene (PCE)	<0.3	<0.27	<0.25	<0.25	<0.25	<0.25	<0.25	<0.45	<0.5	<0.5	<b>26</b>
Trichloroethene (TCE)	<0.2	<0.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.48	<0.4	<0.4	<0.18
cis-1, 2-Dichloroethene	<0.3	<0.28	<0.25	3.2	<0.25	<0.25	<0.25	<0.83	<0.8	<0.8	<0.75
trans-1,2-Dichloroethene	<0.3	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.89	<0.5	<0.5	<0.29
Vinyl Chloride (VC)	NA	NA	<0.25	<0.25	<0.25	<0.25	<0.25	<0.18	NA	NA	NA
<b>Dissolved Gases</b>											
Methane	NA	NA	<0.5	3.0	NA	NA	NA	46.0	NA	NA	NA
Ethane	NA	NA	<0.2	<0.2	NA	NA	NA	0.02	NA	NA	NA
Ethene	NA	NA	<0.3	<0.3	NA	NA	NA	1.2	NA	NA	NA
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	NA	0.08	0.17	0.26	0.06	0.25	0.07	NA	NA	NA
Oxidation Reduction Pot.	NA	NA	-36.9	-11.7	3.0	-125.0	40.0	-70.4	NA	NA	NA
pH	NA	NA	7.15	7.17	7.15	7.14	7.24	7.25	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-7 (continued)									MW-7A		
	4/7/95	7/7/95	5/21/96	10/3/97	9/29/99	9/27/00	1/15/02	7/18/02	12/2/03	3/1/94	9/2/94	2/13/95
<b>VOCs</b>												
Tetrachloroethene (PCE)	<0.5	<i>3.1</i>	<1.0	<0.27	<0.25	<0.25	<0.25	<0.25	<0.45	<0.5	<0.5	<0.5
Trichloroethene (TCE)	<0.18	<1.0	<1.0	<0.20	<0.25	<0.25	<0.25	<0.25	<0.48	<0.5	<0.4	<0.18
cis-1, 2-Dichloroethene	<0.75	<1.0	<1.0	<0.28	<0.25	<b>3.2</b>	<0.25	<0.25	<0.83	<0.8	<0.8	<0.75
trans-1,2-Dichloroethene	<0.29	<1.0	<1.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.89	<0.5	<0.5	<0.29
Vinyl Chloride (VC)	NA	NA	NA	<0.23	<0.25	<0.25	<0.25	<0.25	<0.18	NA	NA	NA
<b>Dissolved Gases</b>												
Methane	NA	NA	NA	NA	<0.5	68	0.26	2.8	23	NA	NA	NA
Ethane	NA	NA	NA	NA	<0.2	<0.2	<0.005	0.049	0.45	NA	NA	NA
Ethene	NA	NA	NA	NA	<0.3	<0.3	<0.005	0.012	2.8	NA	NA	NA
<b>Natural Attenuation Parameters</b>												
Dissolved Oxygen	NA	NA	NA	NA	0.52	0.12	0.28	1.42	0.07	NA	NA	NA
Oxidation Reduction Pot.	NA	NA	NA	NA	-0.1	-125.3	-76.7	187.8	-144.1	NA	NA	NA
pH	NA	NA	NA	NA	7.61	7.55	7.58	7.68	7.77	NA	NA	NA

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D.	MW-7A (continued)				MW-8						
	7/7/95	5/21/96	2/26/97	10/3/97	2/28/94	9/2/94	2/13/95	7/7/95	5/21/96	10/3/97	9/29/99
<b>VOCs</b>											
Tetrachloroethene (PCE)	<1.0	<i>3.1</i>	<0.3	<b>8.2</b>	<0.50	<0.5	<0.5	<1.0	<1.0	<0.27	<0.25
Trichloroethene (TCE)	<1.0	<1.0	<0.2	0.66	<0.40	<0.4	<0.4	<1.0	<1.0	<0.2	0.3Q
cis-1, 2-Dichloroethene	<1.0	<1.0	<0.3	<0.28	<0.80	<0.8	<0.75	<1.0	<1.0	<0.28	<0.25
trans-1,2-Dichloroethene	<1.0	<1.0	<0.3	<0.25	<0.50	<0.5	<0.29	<1.0	<1.0	<0.25	<0.25
Vinyl Chloride (VC)	NA	NA	NA	<0.23	NA	NA	NA	NA	NA	<0.23	<0.25
<b>Dissolved Gases</b>											
Methane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.94
Ethane	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.2
Ethene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.3
<b>Natural Attenuation Parameters</b>											
Dissolved Oxygen	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21
Oxidation Reduction Pot.	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83.4
pH	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	6.90

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-8 (continued)				MW-9							
	9/26/00	1/14/02	7/17/02	12/1/03	9/28/00	1/30/01	7/3/01	1/17/02	7/22/02	12/2/03	8/18/04	10/11/04
<b>VOCs</b>												
Tetrachloroethene (PCE)	<0.25	<0.25	<0.25	<0.45	<b>5,000</b>	<b>5,400</b>	<b>1,500</b>	<b>50</b>	<5.0	<b>240</b>	<4.5	<b>31</b>
Trichloroethene (TCE)	<0.25	<0.25	<0.25	<0.48	<b>470</b>	<b>500</b>	<b>380</b>	<b>25</b>	<5.0	<b>240</b>	<b>13</b>	<b>41</b>
cis-1, 2-Dichloroethene	<0.25	<0.25	<0.25	<0.83	<b>2,000</b>	<b>2,400</b>	<b>10,000</b>	<b>4,100</b>	<b>1,000</b>	<b>2,200</b>	<b>760</b>	<b>560</b>
trans-1,2-Dichloroethene	<0.25	<0.25	<0.25	<0.89	12	<25	38	<50	<5.0	18	<8.9	<4.4
Vinyl Chloride (VC)	<0.25	<0.25	<0.25	<0.18	5	<b>12.5</b>	<b>270</b>	<b>910</b>	<b>410</b>	<b>450</b>	<b>250</b>	<b>150</b>
<b>Dissolved Gases</b>												
Methane	2.0	0.15	2.7	8.5	68.0	NA	1.2	2,000	5,500	9,900	4,800	7,100
Ethane	<0.2	<0.005	0.045	0.031	<0.2	NA	0.28	3.2	14	310	350	490
Ethene	<0.3	<0.005	0.024	0.96	0.15	0.2	280	2,300	3,300	2,300	1,200	2,000
<b>Natural Attenuation Parameters</b>												
Dissolved Oxygen	0.28	0.33	0.29	0.22	0.40	2.22	0.58	0.61	0.36	0.17	0.15	0.03
Oxidation Reduction Pot.	64.7	232.0	172.3	122.1	114.7	99.8	35.7	-212.6	-73.4	-50.0	-145.0	-136.6
pH	7.00	6.88	7.05	6.95	6.84	6.87	6.57	6.57	6.81	6.70	6.59	6.55

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.

**Table 1. Groundwater Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	MW-10A								ES	PAL
	9/27/00	1/30/01	7/3/01	1/17/02	7/22/02	12/2/03	8/18/04	10/11/04		
<b>VOCs</b>										
Tetrachloroethene (PCE)	300	14	<12	48	10	43	12	60	5	0.5
Trichloroethene (TCE)	490	120	82	320	74	22	13	21	5	0.5
cis-1, 2-Dichloroethene	2,200	2,400	1,700	1,000	1,600	650	700	460	70	7
trans-1,2-Dichloroethene	17	25	<12	<10	18	6	<1.9	<4.4	100	20
Vinyl Chloride (VC)	<10	<6.2	<12	36	46	17	19	11	0.2	0.02
<b>Dissolved Gases</b>										
Methane	3,800	NA	4,200	4,800	5,000	2,500	1,400	2,200	---	---
Ethane	<0.2	NA	0.0086	0.037	0.36	0.25	1.3	0.47	---	---
Ethene	<0.3	NA	0.33	4.80	32.00	3.60	5.70	3.60	---	---
<b>Natural Attenuation Parameters</b>										
Dissolved Oxygen	1.12	1.08	0.29	0.20	0.22	0.15	0.13	0.06	---	---
Oxidation Reduction Pot.	37.5	-57.5	-72.1	-147.0	-35.8	-37.2	-119.5	-97.0	---	---
pH	6.98	6.93	6.70	6.98	6.97	7.11	6.99	7.01	---	---

All concentrations reported in micrograms per liter (µg/L).

Monitoring Wells MW-3, MW-3A, MW-4, MW-4A, and MW-5 were abandoned during soil remediation activities.

Monitoring Wells MW-9 and MW-10A were installed following completion of soil remediation activities.

**Bold** Detected concentration exceeds ES.

*Italics* Detected concentration exceeds PAL.

--- Groundwater quality criteria not established for constituent.

< Constituent was not detected above the laboratory method detection limit, which is the value following the "<" sign.

ES Groundwater Quality Enforcement Standard as established in Chapter NR 140 of the Wisconsin Administrative Code.

NA Not analyzed or data not available.

PAL Groundwater Quality Preventive Action Limit as established in Chapter NR 140 of the Wisconsin Administrative Code.

Q Detected at a concentration below the limit of detection.



**Table B6-2. Final Post-Treatment Soil Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

	Cell #1	Cell #2	Cell #3	Cell #4	Cell #5	Cell #6	Cell #7	Cell #8
Sample I.D.	S1L1(4)	S2L1(6)	S3L1(7)	S4L1(7)	S5L1(7)	S6L1(6)	S7L1(6)	S8L1(5)
Sample Date	4/10/2000	7/31/2000	8/4/2000	8/4/2000	8/4/2000	7/30/2000	7/30/2000	8/11/2000
<b>VOCs</b>								
Tetrachloroethene	<29	175	154	187	142	61	84	308
Trichlorethene	<29	<27	<28	<28	<27	<26	<27	<28
cis-1,2-Dichloroethene	<29	<27	32	<28	<27	<26	<27	54

All concentrations are reported in micrograms per kilogram (mg/kg).

- < Constituent not present above the laboratory method detection limit, with is the value following the "<" sign.
- VOCs Volatile organic compounds.
- NE Not established.
- RCL Residual contaminant limit.
- SSL Site-specific screening level.

**Table B6-2. Final Post-Treatment Soil Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	Cell #9	Cell #10	Cell #11	Cell #12	Site-Specific Groundwater Pathway RCL	Ingestion of Soil SSL	
	S9L1(6) 8/16/2000	S10L1(9) 8/15/2000	S11L1(9) 8/15/2000	S12L1(5) 8/25/2000		Carcinogen	Noncarcinogen
<b>VOCs</b>							
Tetrachloroethene	271	198	142	143	390	1,230	156,000
Trichlorethene	<27	<28	<27	<27	NE	5,810	93,900
cis-1,2-Dichloroethene	43	<28	<27	<27	NE	NE	156,000

All concentrations are reported in micrograms per kilogram (mg/kg).

< Constituent not present above the laboratory method detection limit, with is the value following the "<" sign.

VOCs Volatile organic compounds.

NE Not established.

RCL Residual contaminant limit.

SSL Site-specific screening level.

**Table B6-2. Final Post-Treatment Soil Analytical Results, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Sample I.D. Sample Date	Inhalation of Fugitive Dust SSL		Inhalation of Volatiles SSL	
	Carcinogen	Noncarcinogen	Carcinogen	Noncarcinogen
<b>VOCs</b>				
Tetrachloroethene	323,000,000	96,300,000,000	2,100	620,000
Trichloroethene	110,000,000	16,000,000,000	910	1,300,000
cis-1,2-Dichloroethene	NE	NE	NE	1,300,000

All concentrations are reported in micrograms per kilogram (mg/kg).

< Constituent not present above the laboratory method detection limit, with is the value following the "<" sign.

VOCs Volatile organic compounds.

NE Not established.

RCL Residual contaminant limit.

SSL Site-specific screening level.

**Table B8-1. Groundwater Elevation Measurements, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Well ID	9/30/99		9/26/00		1/30/01		7/3/01		1/14/02	
	Depth to (ft bgs)	Elevation (ft)	Depth to (ft bgs)	Elevation (ft amsl)	Depth to (ft bgs)	Elevation (ft amsl)	Depth to (ft bgs)	Elevation (ft amsl)	Depth to (ft bgs)	Elevation (ft amsl)
<b>Monitoring Wells</b>										
MW-1A	6.41	191.99	7.00	191.40	6.60	191.80	7.63	190.77	8.09	190.31
MW-2A	10.72	189.59	5.91	194.40	5.42	194.89	7.28	193.03	7.82	192.49
MW-3A	12.21	190.37	ABAN	---	ABAN	---	ABAN	---	ABAN	---
MW-4A	7.07	194.18	ABAN	---	ABAN	---	ABAN	---	ABAN	---
MW-5	5.34	192.66	ABAN	---	ABAN	---	ABAN	---	ABAN	---
MW-8	6.81	192.00	5.05	193.76	6.30	192.51	8.04	190.77	7.05	191.76
MW-9	NI	---	5.35	192.49	5.28	192.56	5.67	192.17	6.44	191.40
MW-10A	NI	---	4	194.54	3.76	194.78	4.08	194.46	4.10	194.44
MW-1C	NM	---	NM	---	NM	---	NM	---	NM	---
MW-3C	NM	---	NM	---	NM	---	NM	---	6.74	189.56
MW-6C	4.22	192.42	4.57	192.07	NM	---	4.45	192.19	5.36	191.28
<b>Piezometers</b>										
MW-1	20.61	178.41	20.56	178.46	20.72	178.30	18.87	180.15	20.56	178.46
MW-2	22.53	177.79	22.50	177.82	5.42	194.90	20.80	179.52	22.48	177.84
MW-3	24.02	177.20	ABAN	---	ABAN	---	ABAN	---	ABAN	---
MW-4	16.76	184.58	ABAN	---	ABAN	---	ABAN	---	ABAN	---
MW-7	16.28	183.19	10.65	188.82					12.72	186.75
P-6C	18.72	177.79	18.73	177.78	NM	---	16.98	179.53	18.65	177.86

Elevations are based upon local reference point.

--- Not applicable.  
 ABAN Abandoned.  
 bgs Below ground surface.  
 ft Feet.  
 ID Identification  
 NM Not measured.

**Table B8-1. Groundwater Elevation Measurements, Cedarburg Cleaners, W62 N253 Washington Avenue, Cedarburg, Wisconsin.**

Well ID	7/17/02		Top of Casing Elevation
	Depth to (ft bgs)	Elevation (ft amsl)	
<b>Monitoring Wells</b>			
MW-1A	8.16	190.24	198.40
MW-2A	8.11	192.20	200.31
MW-3A	ABAN	---	202.58
MW-4A	ABAN	---	201.25
MW-5	ABAN	---	198.00
MW-8	6.56	192.25	198.81
MW-9	6.00	191.84	197.84
MW-10A	4.51	194.03	198.54
MW-1C	5.63	188.17	193.80
MW-3C	6.46	189.84	196.30
MW-6C	4.56	192.08	196.64
<b>Piezometers</b>			
MW-1	19.86	179.16	199.02
MW-2	21.79	178.53	200.32
MW-3	ABAN	---	201.22
MW-4	ABAN	---	201.34
MW-7	11.91	187.56	199.47
P-6C	17.97	178.54	196.51

Elevations are based upon local reference point.

--- Not applicable.

ABAN Abandoned.

bgs Below ground surface.

ft Feet.

ID Identification

NM Not measured.

DRAFTER: ELP

APPROVED:

CHECKED: WM

DRAWING: W1\_02.A1

PROJECT: SUPERFUND

DATE: 7/2002

MW-7A ● ○ MW-7

OWENS PROPERTY

194

MW-4A ● ○ MW-4

MW-3A ● ○ MW-3

MW-10A ● (194.03)

CEDARBURG CLEANERS

CANOPY

193

MW-8 ● (192.25)

192

MW-5 ● MW-9 ● (191.81)

191

MW-2A ● ○ MW-2 (192.20)

191

CORKY'S UNION 76

MW-6C ● (192.08)

○ P-6C

MW-1A ● (190.24)

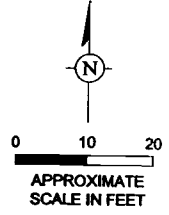
MW-1 ● ○

190

192 — WATER TABLE ELEVATION CONTOUR  
(192.20) WATER ELEVATION IN WELL

**LEGEND**

- WATER TABLE OBSERVATION WELL LOCATION
- PIEZOMETER LOCATION
- PROPERTY BOUNDARY
- ▨ CATCH BASIN



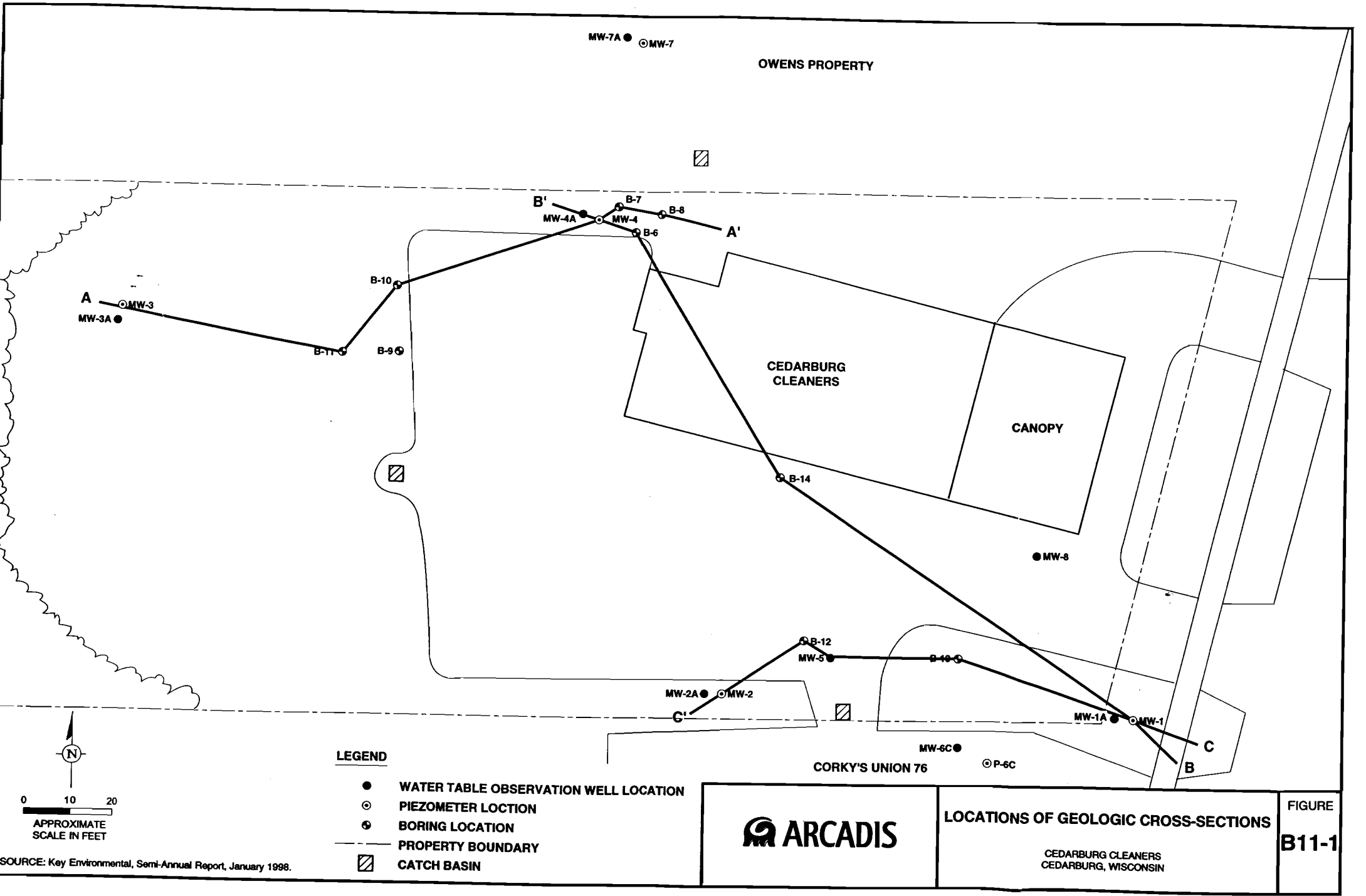
**WATER TABLE ELEVATION MAP  
JULY 2002**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

**FIGURE  
B9-1**

SOURCE: Key Environmental, Semi-Annual Report, January 1998.

DRAFTER: ELS  
 APPROVED:  
 CHECKED: LNB  
 DRAWING: SOIL\_6A1  
 FILE NO.: GRAPHICS



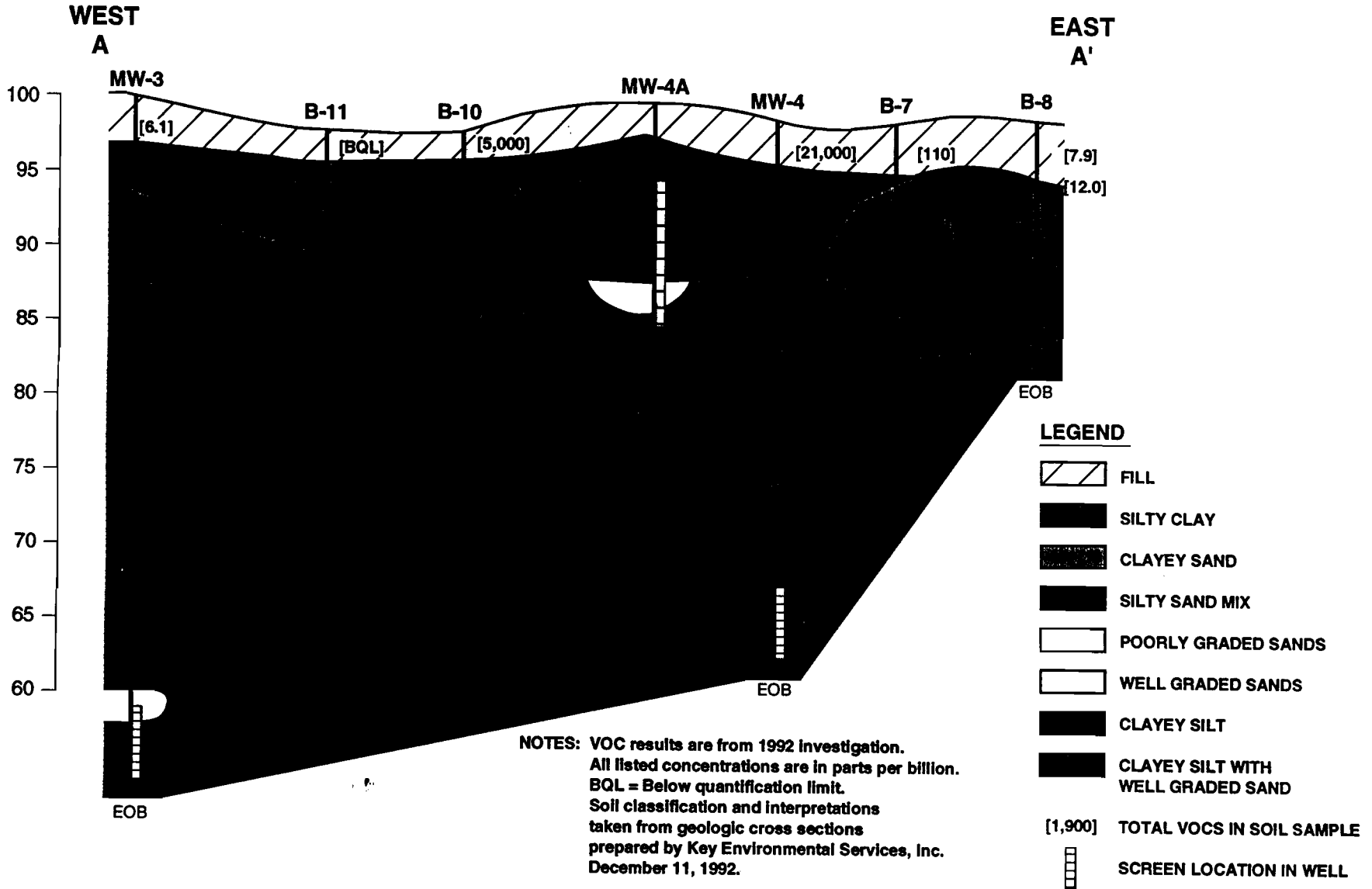
SOURCE: Key Environmental, Semi-Annual Report, January 1998.



LOCATIONS OF GEOLOGIC CROSS-SECTIONS

FIGURE  
**B11-1**

CEDARBURG CLEANERS  
 CEDARBURG, WISCONSIN



GEOLOGIC CROSS SECTION A-A'

FIGURE

B11-2

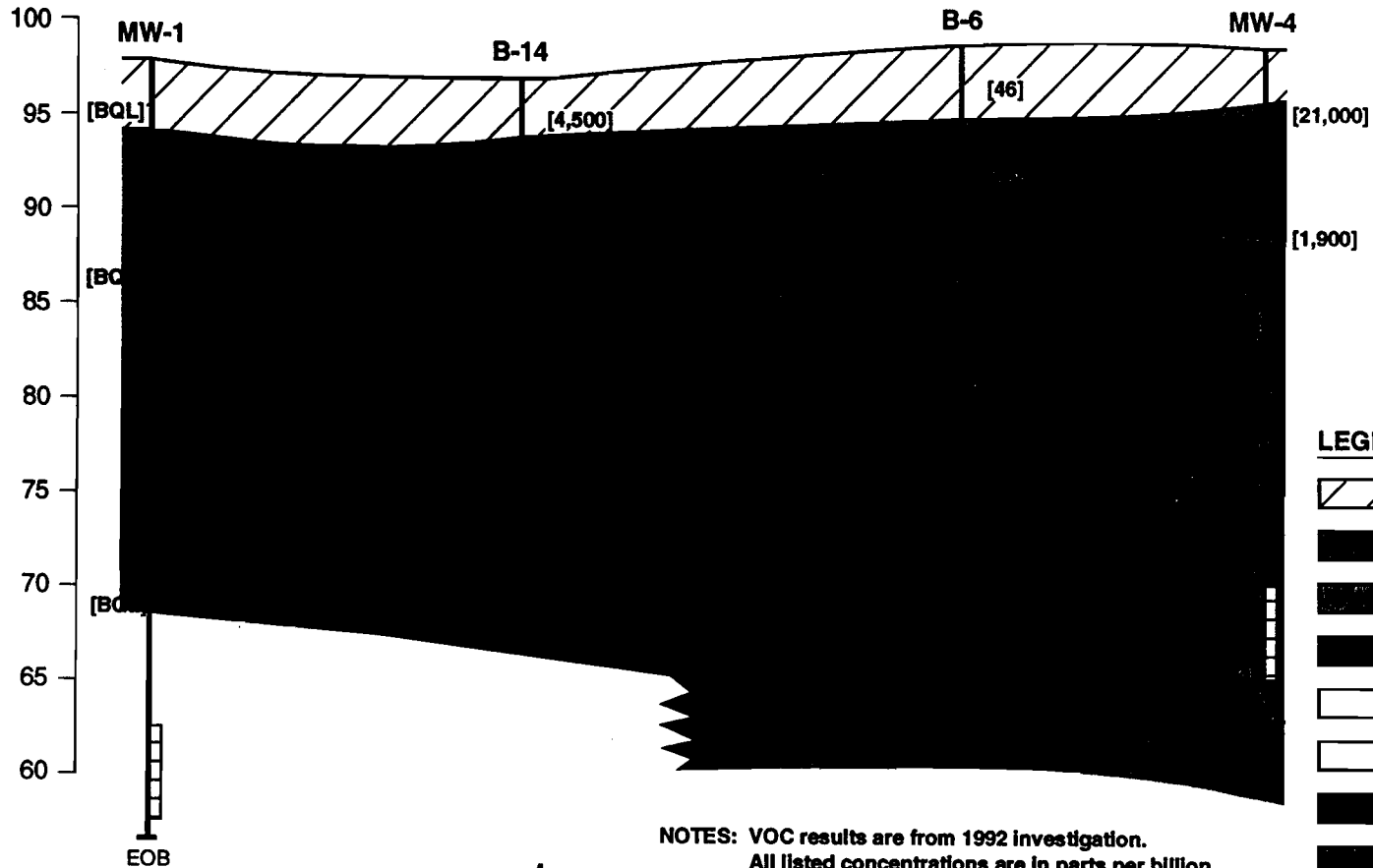


CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN












SOUTH  
B

NORTH  
B'



**LEGEND**

-  FILL
-  SILTY CLAY
-  CLAYEY SAND
-  SILTY SAND MIX
-  POORLY GRADED SANDS
-  WELL GRADED SANDS
-  CLAYEY SILT
-  CLAYEY SILT WITH WELL GRADED SAND
- [4,500] TOTAL VOCs IN SOIL SAMPLE
-  SCREEN LOCATION IN WELL

NOTES: VOC results are from 1992 investigation.  
 All listed concentrations are in parts per billion.  
 BQL = Below quantification limit.  
 Soil classification and interpretations  
 taken from geologic cross sections  
 prepared by Key Environmental Services, Inc.  
 December 11, 1992.

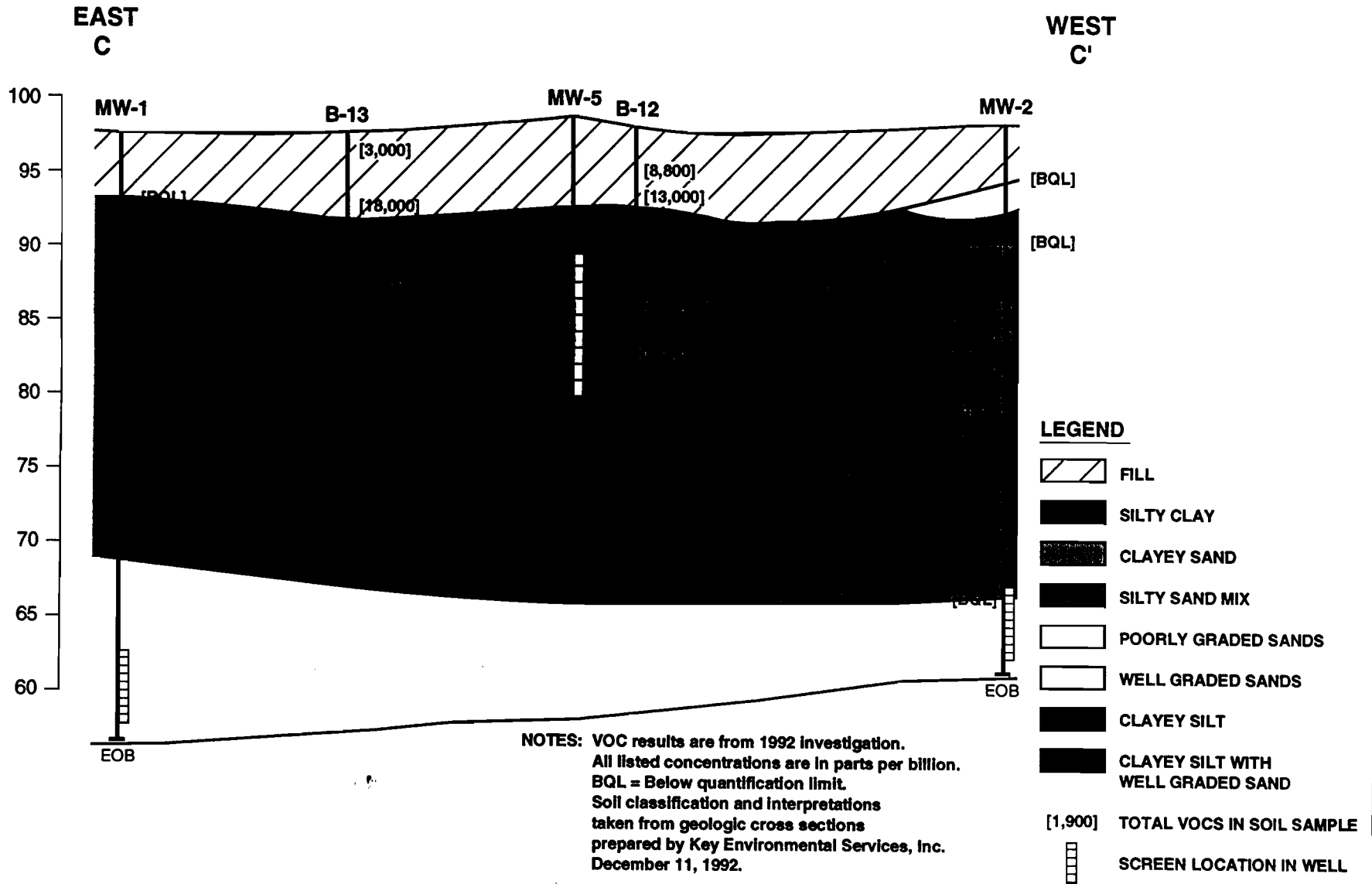


**GEOLOGIC CROSS SECTION B-B'**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

FIGURE

**B11-3**



**GEOLOGIC CROSS SECTION C-C'**

CEDARBURG CLEANERS  
CEDARBURG, WISCONSIN

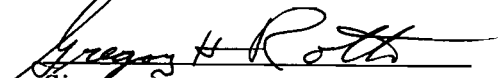
FIGURE

**B11-4**

**STATEMENT**

In accordance with NR726.05(3)(a)(4)(f) of the Wisconsin Administrative Code the closure form must include "A statement signed by the responsible party that certifies that the legal descriptions that are attached to the statement are complete and accurate for all of the properties within or partially within the contaminated site's boundaries that have groundwater contamination that exceeds ch. NR 140 enforcement standards at the time closure is requested."

Cedarburg Village Investment Partnership

  
Signature

GREGORY H. ROTH  
Printed Name

6/24/03  
Date



Infrastructure, buildings, environment, communications

Colin Van Sluys  
Corky's Tire & Auto Service  
W62 N245 Washington Avenue  
Cedarburg, Wisconsin 53012

Subject:

Notification of Off-Site Groundwater Enforcement Standard Exceedances, Corky's Union 76, W62 N245 Washington Avenue, Cedarburg, Wisconsin.

Dear Mr. Van Sluys:

The Cedarburg Village Investment Partnership (CVIP) has completed active soil and groundwater remediation activities at the Cedarburg Cleaners facility located at W62 N253 Washington Avenue in Cedarburg, Wisconsin. ARCADIS, on behalf of CVIP, has submitted a closure request for the Cedarburg Cleaners site to the Wisconsin Department of Natural Resources (WDNR).

As required by the WDNR, this letter has been prepared to notify you that Chapter NR 140 groundwater enforcement standard (ES) exceedances associated with the Cedarburg Cleaners site may be present on your property. Monitoring Well MW-7A and Piezometer MW-7 were installed by CVIP during the investigation of the Cedarburg Cleaners site in 1995. As you are aware, only the piezometer (MW-7) is still in use, as the monitoring well (MW-7A) was inadvertently destroyed during the asphalt replacement in your parking lot. The ES has been exceeded at Monitoring Wells MW-3C and MW-6C. The locations of these two monitoring wells are shown on Figure 1.

When the closure request is approved, the Cedarburg Cleaners site and all affected properties will be listed on the WDNR geographic information system (GIS) Registry of Closed Remediation Sites. As you know, your property has already been listed on the GIS registry as a condition of the site closure that was granted by the WDNR in October 2002. The GIS registry for your property will be amended to include a link to the Cedarburg Cleaners registry indicating that your property is not the source of the chlorinated solvents that have been detected in Monitoring Well MW-3C and MW-6C.

Since the source of the chlorinated hydrocarbons is not on your property, neither you nor any subsequent owner of the property will be held responsible for investigation or cleanup, as long as you or any subsequent owners comply with the requirements of section 292.13, Wisconsin Statutes.

Part of a bigger picture

ARCADIS G&M, Inc.  
126 North Jefferson Street  
Suite 400  
Milwaukee  
Wisconsin 53202  
Tel 414 276 7742  
Fax 414 276 7603  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENT

Date:  
24 June 2003

Contact:  
Wes May  
Jim Drought

Phone:  
414 276 7742

Email:  
[wmay@arcadis-us.com](mailto:wmay@arcadis-us.com)  
[jdrought@arcadis-us.com](mailto:jdrought@arcadis-us.com)

Our ref:  
WI000761.0001

# ARCADIS

Colin Van Sluys  
24 June 2003

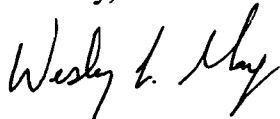
The WDNR project manager for the Cedarburg Cleaners site can be contacted at the following address.

Mr. Mark Drews, Hydrogeologist  
Wisconsin Department of Natural Resources  
141 NW Barstow St, Room 180  
Waukesha, Wisconsin 53188  
Phone: (262) 574-2146  
Fax: (262) 574-2117


We trust this information will meet your needs. If you have any questions, or require any additional information, please contact the undersigned.

ARCADIS G&M, Inc.

Sincerely,



Wesley L. May, PE  
Staff Engineer



James F. Drought, PH  
Principal Hydrogeologist

Copies:

Greg Roth – Cedarburg Village Investment Partnership  
Donald Gallo – Reinhart Boerner, et. al.  
Dan Pelczar – Key Engineering Group, Inc.



Infrastructure, buildings, environment, communications

Mary Marchese  
County Clerk  
Ozaukee County  
P.O. Box 994  
Port Washington, Wisconsin 53074-0994

Subject:

Notification of Right-of-Way Groundwater Contamination, Cedarburg Cleaners,  
W62 N253 Washington Avenue, Cedarburg, Wisconsin.  
FID# 246068460, BRRTS# 02-46-242188

Dear Ms. Marchese:

The Cedarburg Village Investment Partnership (CVIP) has completed active soil and groundwater remediation activities at the Cedarburg Cleaners facility located at W62 N253 Washington Avenue in Cedarburg, Wisconsin. Conditional Case Closure for the site was granted by the Wisconsin Department of Natural Resources (WDNR) in a letter dated November 9, 2004.

As required by the WDNR, this letter has been prepared to notify you that residual groundwater impacts may be present in the Washington Avenue right-of-way near the Cedarburg Cleaners property. The most recent groundwater sampling event performed at Monitoring Well MW-1A (Figure 1) in December 2003 indicated that tetrachloroethene was detected above the WDNR's Chapter NR 140 groundwater preventative action limit but below the Chapter NR 140 enforcement standard (ES) criteria. No other volatile organic compounds were detected above the preventative action limit or ES during the December 2003 sampling event.

Monitoring Well MW-1A was installed by CVIP during the investigation of the Cedarburg Cleaners site in 1992. As part of the Case Closure, Monitoring Well MW-1A has been abandoned in accordance with WDNR requirements.

The WDNR project manager for the Cedarburg Cleaners site can be contacted at the following address.

Mr. Mark Drews, Hydrogeologist  
Wisconsin Department of Natural Resources  
141 NW Barstow St, Room 180  
Waukesha, Wisconsin 53188  
Phone: (262) 574-2146  
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Milwaukee  
Wisconsin 53202  
Tel 414 276 7742  
Fax 414 276 7603  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENT

Date:

17 January 2005

Contact:

Christopher Kubacki  
Wes May

Phone:

414 276 7742

Email:

[ckubacki@arcadis-us.com](mailto:ckubacki@arcadis-us.com)  
[wmay@arcadis-us.com](mailto:wmay@arcadis-us.com)

Our ref:

WI000761.0002

Sandra M. Ingram  
17 January 2005

## ARCADIS

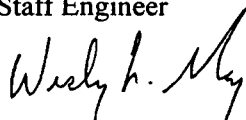
We trust this information will meet your needs. If you have any questions, or require any additional information, please contact the undersigned.

ARCADIS G&M, Inc.

Sincerely,



Christopher D. Kubacki  
Staff Engineer

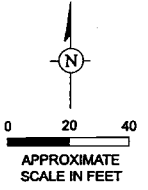
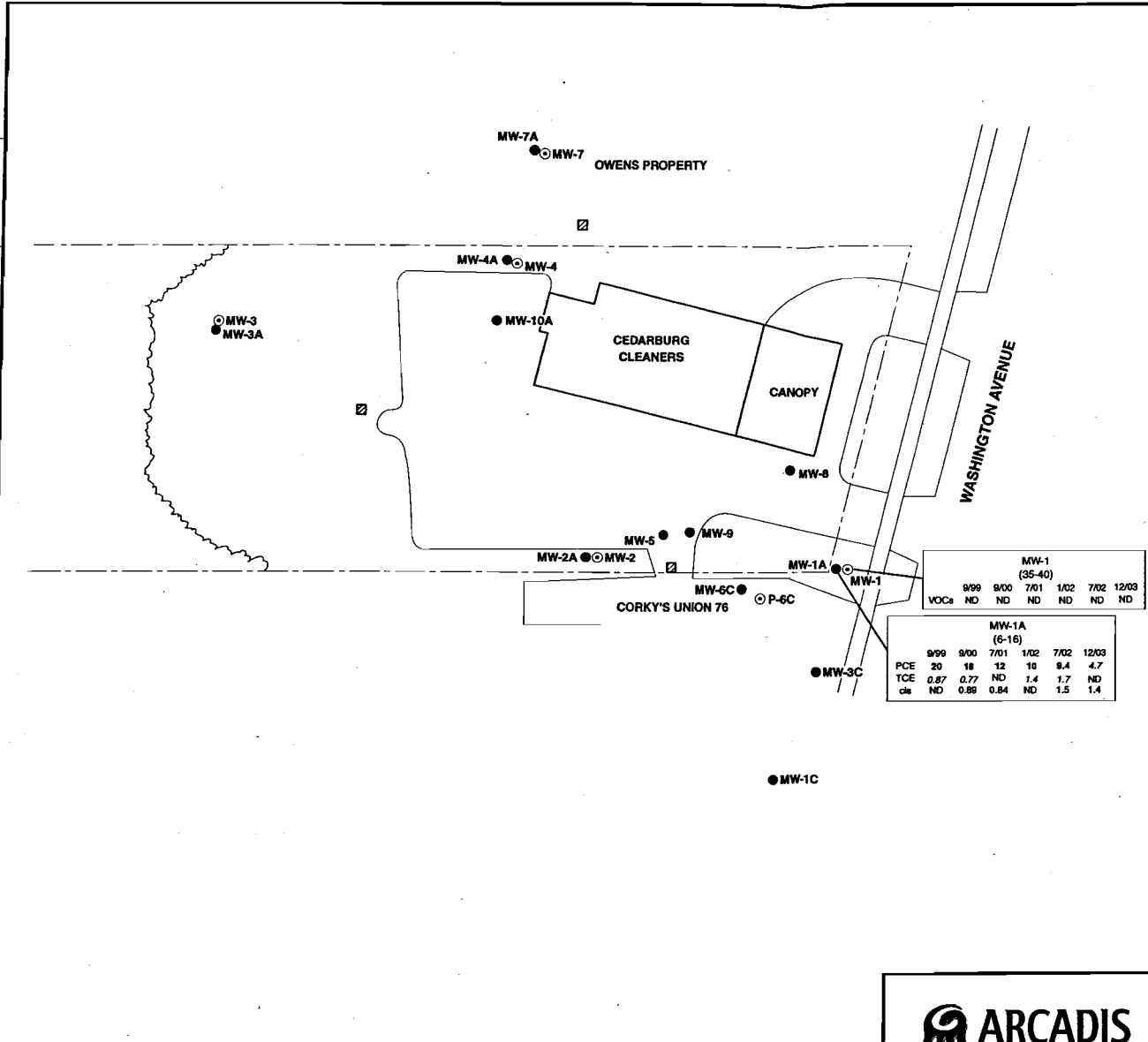


Wesley L. May, P.E.  
Project Engineer

Copies:

Greg Roth – Cedarburg Village Investment Partnership  
Don Gallo – Reinhart Boerner Van Deuren S.C.  
Mark Drews – Wisconsin Department of Natural Resources

DWG DATE: 18JAN05 | FILE NO.: GRAPHICS | DRAWING: GW\_RESULTS\_MW1\_1A.1 | CHECKED: WLM | APPROVED: | DRAFTER: LMB



- LEGEND**
- PROPERTY BOUNDARY
  - WATER TABLE OBSERVATION WELL LOCATION
  - PIEZOMETER LOCATION
  - ☒ CATCH BASIN
  - MW-1 WELL NUMBER
  - (6-16) SCREEN INTERVAL (Feet)
  - PCE Tetrachloroethene
  - TCE Trichloroethene
  - cis cis-1,2-Dichloroethene
  - VOCs Volatile Organic Compounds
  - NA Not Analyzed
  - Italics* Value exceeds the WDNR Preventative Action Limit (PAL)
  - Bold** Value exceeds the WDNR Enforcement Standard (ES)
- All concentrations reported in micrograms per liter (µg/L)



**GROUNDWATER ANALYTICAL RESULTS**  
**MONITORING WELLS MW-1 & MW-1A**  
 CEDARBURG CLEANERS  
 CEDARBURG, WISCONSIN

FIGURE  
**1**

SOURCE: Key Environmental, Semi-Annual Report, January 1998.





Infrastructure, buildings, environment, communications

Sandra M. Ingram  
City Clerk  
City of Cedarburg  
W63 N645 Washington Avenue  
P.O. Box 49  
Cedarburg, Wisconsin 53012

Subject:

Notification of Right-of-Way Groundwater Contamination, Cedarburg Cleaners,  
W62 N253 Washington Avenue, Cedarburg, Wisconsin.  
FID# 246068460, BRRTS# 02-46-242188

Dear Ms. Ingram:

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Monitoring Well MW-1A was installed by CVIP during the investigation of the Cedarburg Cleaners site in 1992. As part of the Case Closure, Monitoring Well MW-1A has been abandoned in accordance with WDNR requirements.

The WDNR project manager for the Cedarburg Cleaners site can be contacted at the following address.

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ENVIRONMENT

Date:

17 January 2005

Contact:

Christopher Kubacki  
Wes May

Phons:

414 276 7742

Email:

[ckubacki@arcadis-us.com](mailto:ckubacki@arcadis-us.com)  
[wmay@arcadis-us.com](mailto:wmay@arcadis-us.com)

Our ref:

WI000761.0002

**ARCADIS**

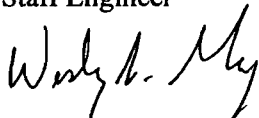
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ARCADIS G&M, Inc.

Sincerely,



Christopher D. Kubacki  
Staff Engineer

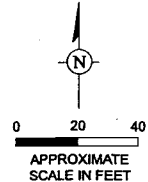
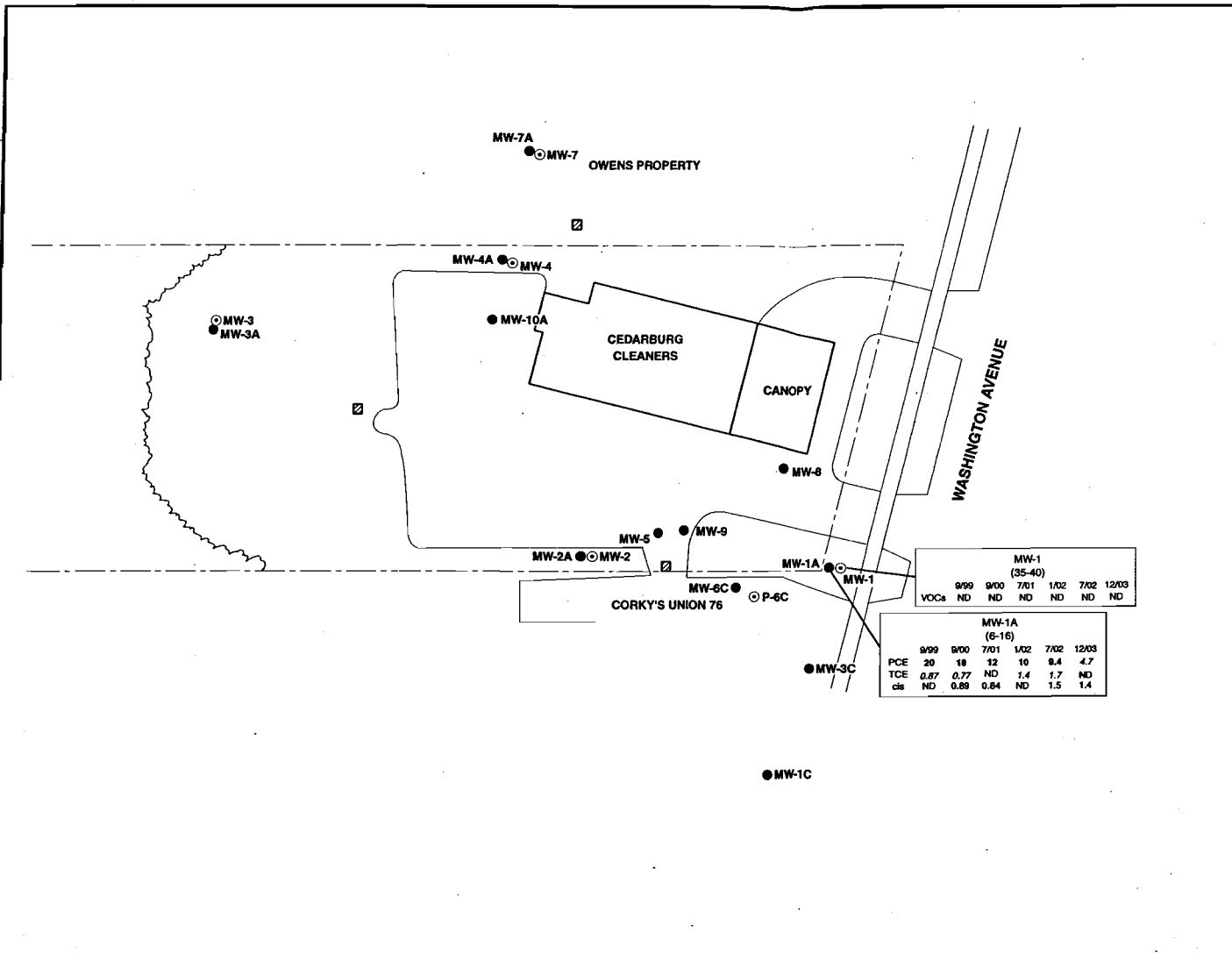


Wesley L. May, P.E.  
Project Engineer

Copies:

Mark Drews – Wisconsin Department of Natural Resources  
Don Gallo – Reinhart Boerner Van Deuren S.C.  
Greg Roth – Cedarburg Village Investment Partnership

DWG DATE: 18/JAN/05 | P#: CEDARBURG\W10781\REMED | FILE NO: GRAPHICS | DRAWING: GW\_RESULTS\_MW1\_1A.1 | CHECKED: WLM | APPROVED: | DRAFTER: LMB



- LEGEND**
- PROPERTY BOUNDARY
  - WATER TABLE OBSERVATION WELL LOCATION
  - PIEZOMETER LOCATION
  - ▣ CATCH BASIN
  - MW-1 WELL NUMBER
  - (5-15) SCREEN INTERVAL (Feet)
  - PCE Tetrachloroethene
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  - cis cis-1,2-Dichloroethene
  - VOCs Volatile Organic Compounds
  - NA Not Analyzed
  - Italics* Value exceeds the WDNR Preventative Action Limit (PAL)
  - Bold** Value exceeds the WDNR Enforcement Standard (ES)

All concentrations reported in micrograms per liter (µg/L)

	9/99	9/00	7/01	1/02	7/02	12/03
<b>MW-1 (35-40)</b>						
VOCs	ND	ND	ND	ND	ND	ND

	9/99	9/00	7/01	1/02	7/02	12/03
<b>MW-1A (6-16)</b>						
PCE	20	18	12	10	8.4	4.7
TCE	<i>0.87</i>	<i>0.77</i>	ND	1.4	1.7	ND
cis	ND	0.89	0.84	ND	1.5	1.4

SOURCE: Key Environmental, Semi-Annual Report, January 1998.

	<b>GROUNDWATER ANALYTICAL RESULTS MONITORING WELLS MW-1 &amp; MW-1A</b> CEDARBURG CLEANERS CEDARBURG, WISCONSIN	<b>FIGURE</b>  <b>1</b>
--	---	-------------------------------