

GIS Registry Disclaimer

This case was closed by the DNR prior to August 1, 2002, when DNR began adding approved cleanups with residual soil contamination into the GIS Registry. Certain documents that are currently required by ch. NR 726, Wis. Adm. Code may therefore not be included in this packet as they were unavailable at the time the original case was closed.

The information contained in this document was assembled by DNR from a previously closed case file, and added to the GIS Registry to provide the public with information on closed sites with residual soil and/or groundwater contamination remaining above applicable state standards.

GIS REGISTRY

Cover Sheet

July, 2008
(RR 5367)

Source Property Information

BRRTS #:

ACTIVITY NAME:

PROPERTY ADDRESS:

MUNICIPALITY:

PARCEL ID #:

CLOSURE DATE:

FID #:

DATCP #:

COMM #:

*WTM COORDINATES:

X: Y:

** Coordinates are in
WTM83, NAD83 (1991)*

WTM COORDINATES REPRESENT:

- Approximate Center Of Contaminant Source
 Approximate Source Parcel Center

Please check as appropriate: (BRRTS Action Code)

Contaminated Media:

Groundwater Contamination > ES (236)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property")*

Soil Contamination > *RCL or **SSRCL (232)

Contamination in ROW

Off-Source Contamination

*(note: for list of off-source properties
see "Impacted Off-Source Property")*

Land Use Controls:

Soil: maintain industrial zoning (220)

*(note: soil contamination concentrations
between residential and industrial levels)*

Structural Impediment (224)

Site Specific Condition (228)

Cover or Barrier (222)

*(note: maintenance plan for
groundwater or direct contact)*

Vapor Mitigation (226)

Maintain Liability Exemption (230)

*(note: local government or economic
development corporation)*

Monitoring wells properly abandoned? (234)

Yes No N/A

** Residual Contaminant Level*

***Site Specific Residual Contaminant Level*

This Adobe Fillable form is intended to provide a list of information that is required for evaluation for case closure. It is to be used in conjunction with Form 4400-202, Case Closure Request. The closure of a case means that the Department has determined that no further response is required at that time based on the information that has been submitted to the Department.

NOTICE: Completion of this form is mandatory for applications for case closure pursuant to ch. 292, Wis. Stats. and ch. NR 726, Wis. Adm. Code, including cases closed under ch. NR 746 and ch. NR 726. The Department will not consider, or act upon your application, unless all applicable sections are completed on this form and the closure fee and any other applicable fees, required under ch. NR 749, Wis. Adm. Code, Table 1 are included. It is not the Department's intention to use any personally identifiable information from this form for any purpose other than reviewing closure requests and determining the need for additional response action. The Department may provide this information to requesters as required by Wisconsin's Open Records law [ss. 19.31 - 19.39, Wis. Stats.].

BRRTS #: PARCEL ID #:

ACTIVITY NAME: WTM COORDINATES: X: Y:

CLOSURE DOCUMENTS (the Department adds these items to the final GIS packet for posting on the Registry)

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Conditional Closure Letter**
- Certificate of Completion (COC)** for VPLE sites

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: **Title:**
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

MAPS (meeting the visual aid requirements of s. NR 716.15(2)(h))

- Maps must be no larger than 8.5 x 14 inches unless the map is submitted electronically.
- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1 **Title: Site Location Map**
 - Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 2.1 **Title: Site Layout**
 - Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: **Title:**

BRRTS #: 02-14-001550

ACTIVITY NAME: Mayville Coke

MAPS (continued)

- Geologic Cross-Section Map:** A map showing the source location and vertical extent of residual soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL). If groundwater contamination exceeds a ch. NR 140 Enforcement Standard (ES) when closure is requested, show the source location and vertical extent, water table and piezometric elevations, and locations and elevations of geologic units, bedrock and confining units, if any.

Figure #: **Title:**

Figure #: **Title:**

- Groundwater Isoconcentration Map:** For sites closing with residual groundwater contamination, this map shows the horizontal extent of all groundwater contamination exceeding a ch. NR140 Preventive Action Limit (PAL) and an Enforcement Standard (ES). Indicate the direction and date of groundwater flow, based on the most recent sampling data.

Note: This is intended to show the total area of contaminated groundwater.

Figure #: **Title:**

- Groundwater Flow Direction Map:** A map that represents groundwater movement at the site. If the flow direction varies by more than 20° over the history of the site, submit 2 groundwater flow maps showing the maximum variation in flow direction.

Figure #: 2 **Title: Site Map/Water Table map**

Figure #: **Title:**

TABLES (meeting the requirements of s. NR 716.15(2)(h)(3))

Tables must be no larger than 8.5 x 14 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

- Soil Analytical Table:** A table showing remaining soil contamination with analytical results and collection dates.
Note: This is one table of results for the contaminants of concern. Contaminants of concern are those that were found during the site investigation, that remain after remediation. It may be necessary to create a new table to meet this requirement.

Table #: 1 **Title: Summary of Detected Constituents in Test Pit Soil**

- Groundwater Analytical Table:** Table(s) that show the most recent analytical results and collection dates, for all monitoring wells and any potable wells for which samples have been collected.

Table #: 2` **Title: Summary of Groundwater Elevations and Field Parameters**

- Water Level Elevations:** Table(s) that show the previous four (at minimum) water level elevation measurements/dates from all monitoring wells. If present, free product is to be noted on the table.

Table #: 2` **Title: Summary of Groundwater Elevations and Field Parameters**

IMPROPERLY ABANDONED MONITORING WELLS

For each monitoring well not properly abandoned according to requirements of s. NR 141.25 include the following documents.

Note: If the site is being listed on the GIS Registry for only an improperly abandoned monitoring well you will only need to submit the documents in this section for the GIS Registry Packet.

- Not Applicable**

- Site Location Map:** A map showing all surveyed monitoring wells with specific identification of the monitoring wells which have not been properly abandoned.

Note: If the applicable monitoring wells are distinctly identified on the Detailed Site Map this Site Location Map is not needed.

Figure #: **Title:**

- Well Construction Report:** Form 4440-113A for the applicable monitoring wells.

- Deed:** The most recent deed as well as legal descriptions for each property where a monitoring well was not properly abandoned.

- Notification Letter:** Copy of the notification letter to the affected property owner(s).

BRRTS #: 02-14-001550

ACTIVITY NAME: Mayville Coke

NOTIFICATIONS

Source Property

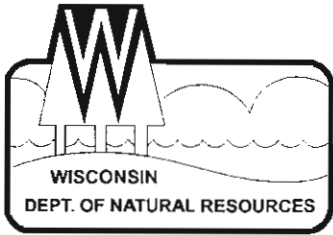
- Letter To Current Source Property Owner:** If the source property is owned by someone other than the person who is applying for case closure, include a copy of the letter notifying the current owner of the source property that case closure has been requested.
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying current source property owner.

Off-Source Property

Group the following information per individual property and label each group according to alphabetic listing on the "Impacted Off-Source Property" attachment.

- Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.
Number of "Off-Source" Letters:
- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source property(ies)**. This does not apply to right-of-ways.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).
Number of "Governmental Unit/Right-Of-Way Owner" Letters:

file copy



State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Tommy G. Thompson, Governor
George E. Meyer, Secretary
Ruthe E. Badger, Regional Director

South Central Region Headquarters
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5397
Telephone 608-275-3266
FAX 608-275-3338
TDD 608-275-3231

September 15, 2000

Dr. M. Carol McCartney, Ph.D., P.G.
RMT, Inc.
P.O. Box 8923
Madison, WI 53708-8923

Subject: Mayville Coke Project Completion

Dear Dr. McCartney:

This letter is to inform you that the Department considers the Mayville Coke Plant investigation, DNR Project No. 99RRTQ, to be complete as of this date. No additional work on this project is authorized. Please submit a final payment request to my attention to begin the contract closeout process.

As the Department's representative for this project, I'd like to formally thank you, Fred Swed, John Oswald and the rest of the RMT project team for a job well done. The investigation was completed on time and well within budget. Moreover, your work was of the highest professional and technical caliber, leavened with a healthy dose of common sense. Your team maintained open and candid communications and a responsive attitude with the Department and local citizens at all times. Overall, RMT's application of experience and professional judgement provided a valuable service to the Department as well as to the people of Mayville. I would have no reservations in recommending or hiring RMT for similar work in the future.

We will forward a completed consultant evaluation to you shortly after the contract is closed out. If you have any questions about this letter, please do not hesitate to contact me at (608) 275-7769.

Sincerely,

Brad Wolbert, P.G.
Waste Management Hydrogeologist
South Central Region

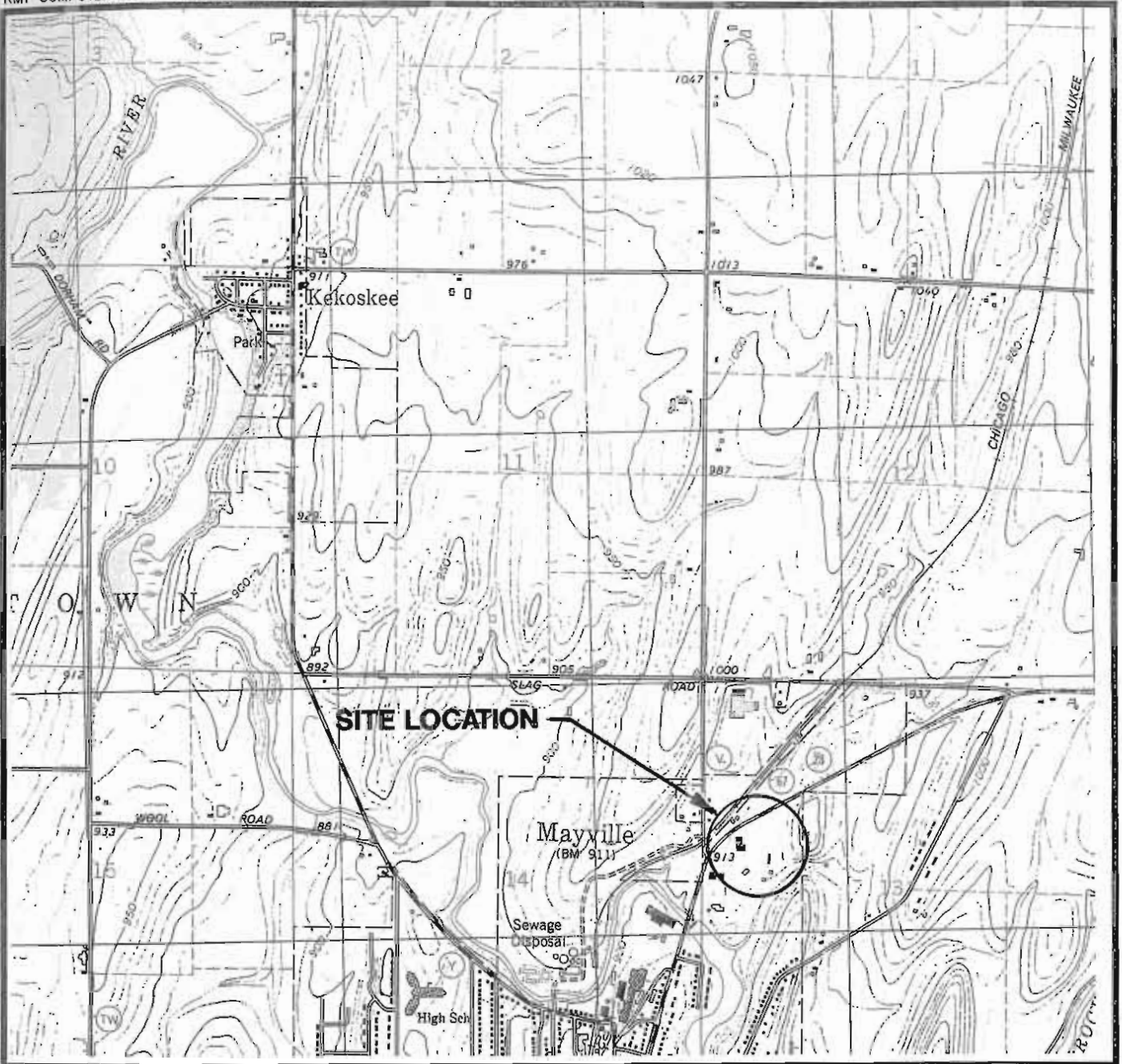
cc: John Burnett - WA/3
Dave Edwards - Horicon



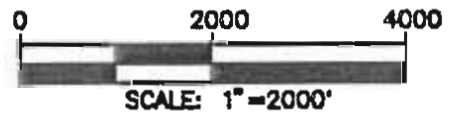
Plot Time: 07:31.3309 AM
Plot Date: Wednesday, January 20, 1999

Operator Name: stormerl
Scale: 1"=1'
Dwg Size: 61200 Bytes
Attached Xref's: No xref's Attached.

Plot Data
Drawing Name: J:\9099678\45\4501.dwg



STATE LOCATION



SITE LOCATION MAP

SOURCE: BASE MAP FROM MAYVILLE NORTH
7.5 MIN. USGS QUADRANGLE.

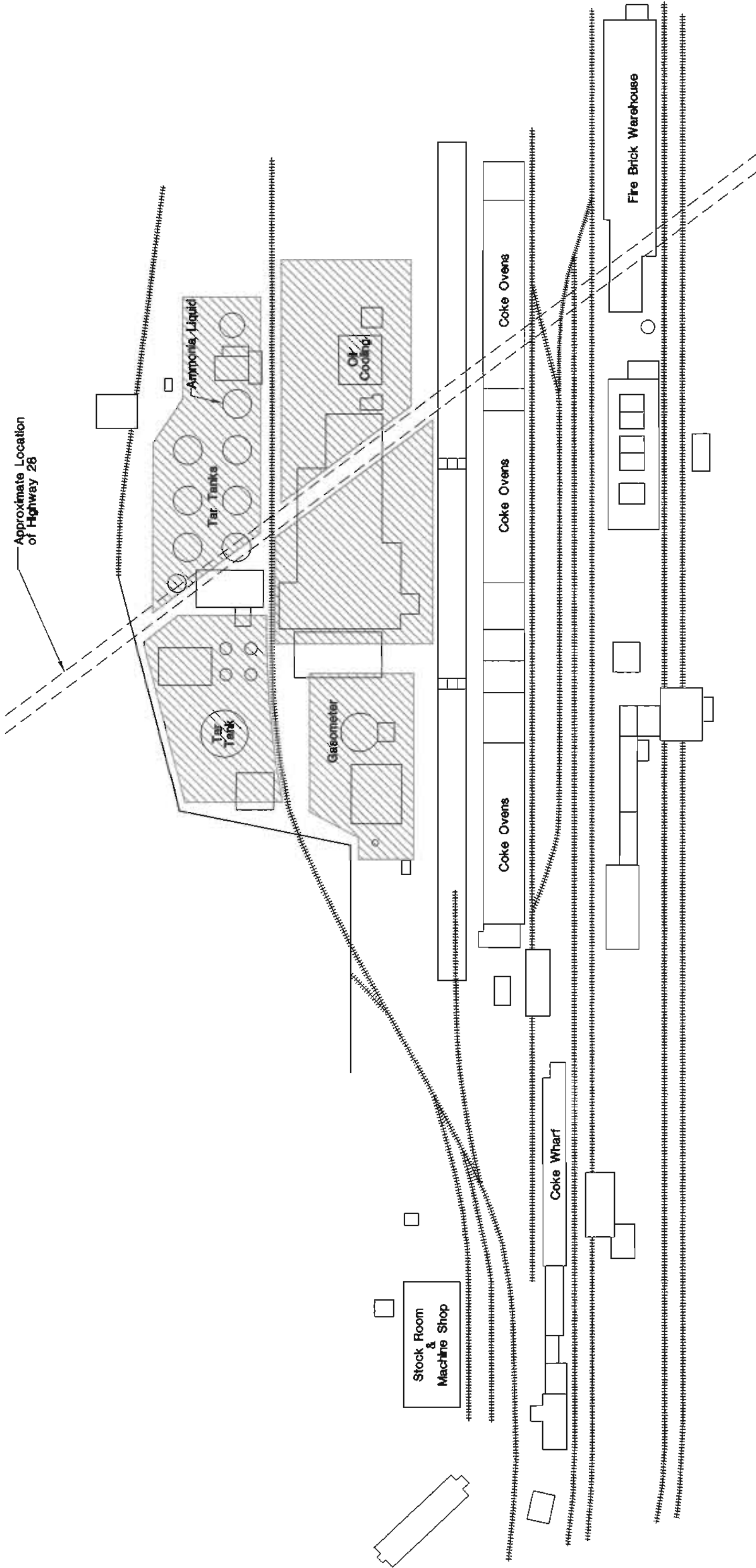
LOCATION: SW1/4, NW1/4 SEC 13, T12N, R18E



DWN. BY:	STORMERL
APPROVED BY:	FMS
DATE:	JANUARY 1999
PROJ. #	9099678.45
FILE #	4501.DWG

FIGURE 1

Approximate Location
of Highway 28



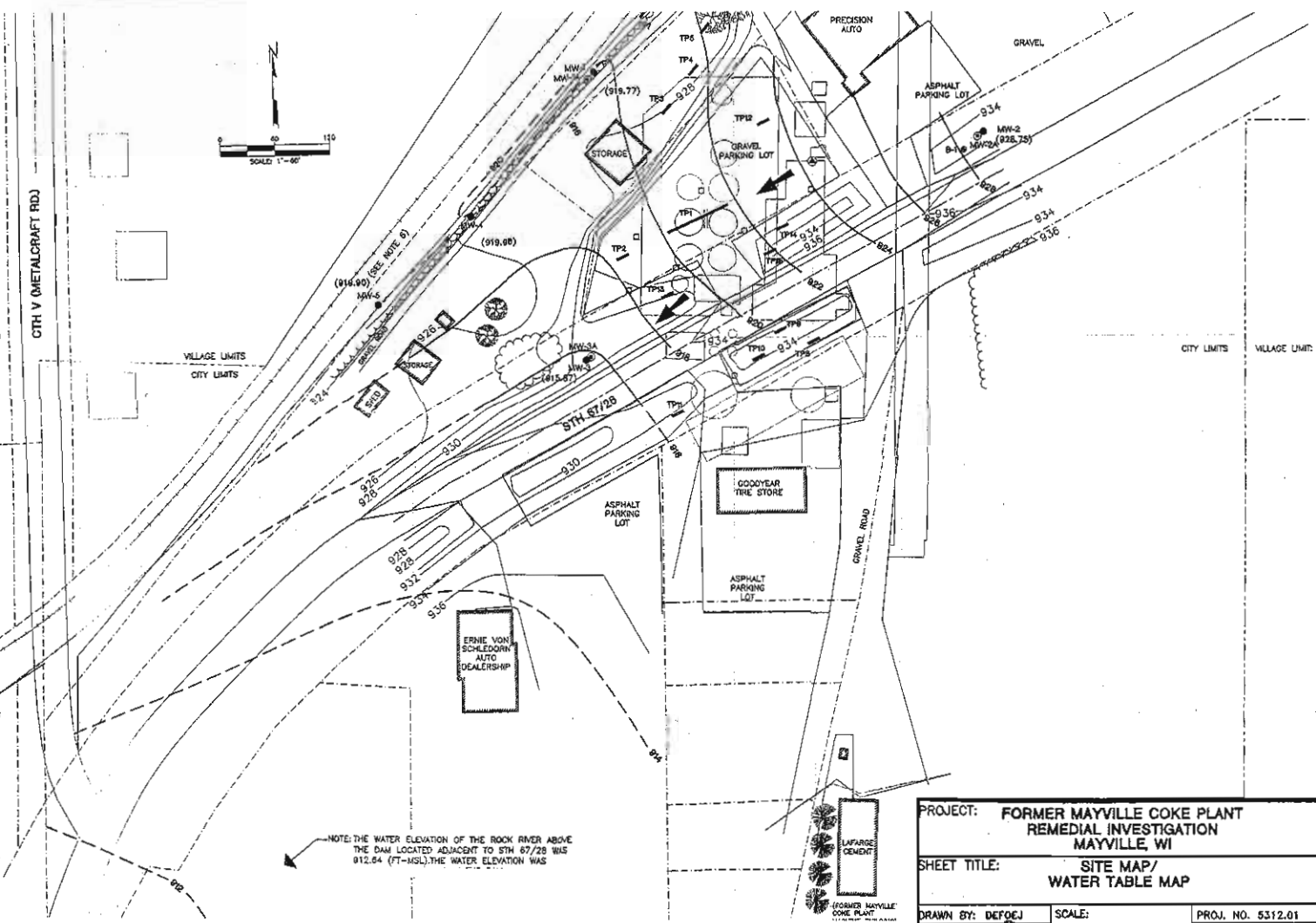
EXPLANATION

POTENTIAL SOURCE AREA

MAYVILLE, WISCONSIN	DATE: 1/21/99
SITE LAYOUT	DESIGNED: BOB
	CHECKED: RRG
	APPROVED: RRG
	DRAWN: BOB
	PROJ:



Figure 2-1



LEGEND	
	RAILROAD
	ROAD
	STREAM
	GROUND SURFACE CONTOUR (FT MSL)
	FORMER COKING STRUCTURE (FROM 1928 SANBORN MAP)
	EXPOSED FOUNDATIONS FROM ORIGINAL COKE PLANT
	EXISTING STRUCTURE AS SURVEYED
	APPROXIMATE OVERLAY OF PARCELS AND PARCEL NUMBERS (FROM CITY RECORDS)/PROPERTY LINES
	CITY LIMITS (APPROXIMATE)
	WATER SUPPLY WELL (CURRENTLY LAFARGE - FORMER COKE PLANT PRODUCTION WELL)
	TEST PIT LOCATION
	SOIL BORING
	MONITORING WELL LOCATION
	PIEZOMETER LOCATION
	WATER TABLE ELEVATION (FT-MSL)
	WATER TABLE CONTOUR LINES DASHED WHERE INFERRED (FT-MSL) (2-FOOT CONTOUR INTERVAL)
	GROUNDWATER FLOW DIRECTION
	LIGHT POLE
	POWER POLE
	TREES/BUSHES

NOTES

- EXPOSED FOUNDATIONS VISIBLE AT THE SURFACE OR IN THE TEST PITS ARE SHOWN AS A DOTTED LINE. FOUNDATIONS OR BUILDING OUTLINES INFERRED FROM HISTORICAL PLANT MAPPING AND SHOWN AS SOLID LINES.
- ARRANGEMENT OF FORMER COKE PLANT IS FROM 1928 SANBORN MAP. IT IS OVERLAIN ON BASE MAP BY ALIGNING THE EXISTING MACHINE SHOP. DUE TO INHERENT DISTORTIONS IN REPRODUCING THE ORIGINAL SANBORN MAP, THIS OVERLAY IS APPROXIMATE ONLY.
- PARCEL BOUNDARIES ARE FROM CITY RECORDS. THEY ARE OVERLAIN ON THE BASE MAP ON THE CENTERLINES OF CTH V AND STH 67/28. THIS OVERLAY IS APPROXIMATE ONLY.
- SITE FEATURES AND TOPOGRAPHY BASED ON SURVEY BY RMT, INC., SEPTEMBER 29, 1999. THE OUTLINES OF CERTAIN BUILDINGS ARE APPROXIMATE ONLY.
- WATER LEVELS WERE MEASURED ON OCTOBER 11, 1999.
- ELEVATION DENOTES SURFACE WATER LEVEL IN CREEK.

PROJECT: FORMER MAYVILLE COKE PLANT REMEDIAL INVESTIGATION MAYVILLE, WI		
SHEET TITLE: SITE MAP/ WATER TABLE MAP		
DRAWN BY: DEFOEJ	SCALE: 1" = 60'	PROJ. NO.: 5312.01
CHECKED BY: [Signature]		FILE NO.: 53120106.DWG
APPROVED BY: [Signature]	DATE PRINTED: MAR 20 2000	FIGURE 2
DATE: MARCH 2000		
RMT. 744 Heartland Trail Madison, WI 53717-1934 P.O. Box 8923 Madison, WI 53708-8923 Phone: 608/831-4444		

Table 1
Summary of Detected Constituents in Test Pit Soil
Former Mayville Coke Plant
Mayville, Wisconsin

PARAMETER	UNITS	SAMPLE LOCATION		
		TP-3 (12 ft)	TP-12 (7.5 ft)	TP-12 (7.5 ft TCLP)
VOCs				
Benzene	µg/kg	<23>	6,000	61 ⁽¹⁾
Bromomethane	µg/kg	<32>	<110	NA
Sec-Butylbenzene	µg/kg	41	<100>	NA
Ethylbenzene	µg/kg	<12	830	NA
Isopropylbenzene	µg/kg	<11	<110>	NA
Naphthalene	µg/kg	<36>	3,200	NA
Toluene	µg/kg	<12	2,000	NA
1,2,4-trimethylbenzene	µg/kg	<11	440	NA
1,3,5-trimethylbenzene	µg/kg	<11	210	NA
Xylenes (total)	µg/kg	<26	3,470	NA
Methyl ethyl ketone	—	NA	NA	<4.0> ⁽¹⁾
INORGANICS				
Arsenic	mg/kg	2.3	13	<7.0 ⁽¹⁾
Barium	mg/kg	15	48	0.66 ⁽²⁾
Cadmium	mg/kg	0.90	5.7	<0.005 ⁽²⁾
Chromium	mg/kg	6.4	10	<0.012 ⁽²⁾
Copper	mg/kg	9.7	8.6	<0.0065 ⁽²⁾
Lead	mg/kg	<3.6>	21	<0.082 ⁽²⁾
Mercury	mg/kg	<0.20>	<0.067	<0.10 ⁽¹⁾
Nickel	mg/kg	7.1	11	<0.021 ⁽²⁾
Selenium	mg/kg	<0.79>	<1.8>	<8.2 ⁽¹⁾
Silver	mg/kg	<0.10	<0.10	<0.0041 ⁽²⁾
Zinc	mg/kg	15	43	0.066 ⁽²⁾

Table 1 (continued)
 Summary of Detected Constituents in Test Pit Soil
 Former Mayville Coke Plant
 Mayville, Wisconsin

PARAMETER	UNITS	SAMPLE LOCATION		
		TP-3 (12 ft)	TP-12 (7.5 ft)	TP-12 (7.5 ft TCLP)
INORGANICS (cont.)				
Chloride	Percent	NA	0.060	NA
Cyanide (total)	mg/kg	<0.031	0.84	NA
Cyanide (reactive)	mg/kg	NA	<0.031	NA
pH	s.u.	NA	8.6	NA
Phenols	mg/kg	NA	4.5	NA
Solids	Percent	85.3	80.4	NA
Sulfide (reactive)	mg/kg	NA	<62	NA

Notes:

1. Samples were collected on September 28 and 29, 1999.
2. No PAHs or semivolatiles were detected in any of the samples.
3. < > = estimated concentration between the Limit of Detection (LOD) and the Limit of Quantitation (LOQ).
4. NA = not analyzed.

Prepared by: JCO, 6/21/00
 Checked by: WJ, 10/18/99
 TS, 6/28/00

Footnotes:

- (1) TCLP analysis units are µg/L.
- (2) TCLP analysis units are mg/L.

Table 2
Summary of Groundwater Elevations and Field Parameters
Former Mayville Coke Plant
Mayville, Wisconsin

MONITORING POINT	REFERENCE ELEVATION (feet M.S.L.)	WATER ELEVATION (feet M.S.L.)			pH		SPECIFIC CONDUCTANCE (μ mhos/cm)		DISSOLVED OXYGEN (mg/L)	
		9/1/99	10/11/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00
MW-1	930.02	920.28	919.77	919.88	7.1	7.3	1,240	1,360	0.6	1.0
MW-1A	930.12	919.68	919.00	918.81	7.1	7.3	1,480	1,460	0.5	0.2
MW-2	934.98	928.70	928.75	929.14	7.3	7.3	1,130	1,360	0.5	0.1
MW-2A	934.91	920.51	919.61	919.26	7.3	7.3	1,030	1,400	2.5	0.3
MW-3	933.26	916.56	915.87	916.09	7.3	7.5	2,020	2,230	4.0	2.0
MW-3A	933.29	913.05	912.05	911.69	7.3	7.3	1,720	1,850	0.4	0.4
MW-4	929.49	920.03	919.98	920.22	7.0	7.3	1,110	1,240	3.9	0.6
MW-5	923.95	919.74	919.33	919.77	7.0	7.7	920	1,070	NM	1.0
SG-1	923.95	919.85	919.90	919.90	NS	NS	NS	NS	NS	NS
SG-2	919.68	NM	902.37	902.80	NS	NS	NS	NS	NS	NS
SG-3	918.12	NM	912.64	912.97	NS	NS	NS	NS	NS	NS

Notes:

1. Water elevations referenced to feet mean sea level (M.S.L.).
2. NM = not measured.
3. NS = not sampled.
4. SG-1 at (MW-5) - surface elevation measured from the reference point on drive-point well MW-5.
5. SG-2 - Rock River stage measured below the dam from Highway 67 bridge.
6. SG-3 - Rock River stage measured above the dam from northern end of dam abutment.

Prepared by: JCO, 6/21/00
Checked by: WJ, 10/18/99,
TS, 6/28/00

Table 4
Summary of Detected VOCs and PAHs in Groundwater
Former Mayville Coke Plant
Mayville, Wisconsin

CONSTITUENTS	NR 140 ES	NR 140 PAL	MONITORING WELLS																		
			MW-1			MW-1A		MW-2			MW-2A		MW-3		MW-3A		MW-4		MW-5		
			9/1/99	(DUP-1) 9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	DUP-1 5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/25/00	9/1/99 ⁽²⁾	9/2/99 ⁽²⁾	5/17/00
VOCs (µg/L)																					
Benzene	5	0.5	<0.12	<0.12	<0.32	<0.12	<0.32	<0.12	<0.32	<0.32	<0.12	<0.32	<0.12	<0.32	12	14	<0.12	<0.32	<0.12	NA	<0.32
Chlorobenzene	--	--	<0.11	<0.11	<0.13	<0.11	<0.13	<0.11	<0.13	<0.13	<0.11	<0.13	<0.11	<0.13	<0.40>	<0.34>	<0.11	<0.13	<0.11	NA	<0.13
Chloromethane	3	0.3	<0.15	<0.15>	<0.33	<0.15	<0.33	<0.15	<0.33	<0.33	<0.15	<0.33	<0.15	<0.33	<0.38	<0.67	<0.20>	<0.33	<0.16>	NA	<0.33
Ethylbenzene	700	140	<0.13	<0.13	<0.14	<0.13	<0.14	<0.13	<0.14	<0.14	<0.13	<0.14	<0.13	<0.14	8.3	4.7	<0.13	<0.14	<0.13	NA	<0.14
Isopropylbenzene	--	--	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	3.9	3.1	<0.12	<0.12	<0.12	NA	<0.12
Methylene chloride	5	0.5	<0.21>	<0.23>	<0.35	<0.19>	<0.35	<0.21>	<0.35	<0.35	<0.18>	<0.35	<0.18>	<0.35	<0.32	<0.70	<0.19>	<0.35	<0.19>	NA	<0.35
Naphthalene	40	8	<0.16	<0.16	<0.37	<0.16	<0.37	<0.16	<0.37	<0.37	<0.16	<0.37	<0.16	<0.37	4.7	5.4	<0.16	<0.37	<0.16	NA	<0.37
Xylenes (total)	10,000	1,000	<0.38	<0.38	<0.71	<0.38	<0.71	<0.38	<0.71	<0.71	<0.38	<0.71	<0.38	<0.71	8.4	5.3	<0.38	<0.71	<0.38	NA	<0.71
Toluene	1,000	200	<0.11	<0.11	<0.37	<0.11	<0.37	<0.11	<0.37	<0.37	<0.15>	<0.37	<0.11	<0.37	1.0	<0.75	<0.11	<0.37	<0.13>	NA	<0.37
Trichlorofluoromethane	--	--	<0.22	<0.22	0.42	<0.22	<0.36>	<0.22	0.40	0.42	<0.22	0.38	<0.22	1.5	<0.40	<0.39>	<0.22	0.42	<0.22	NA	0.45
1,2,4-Trimethylbenzene	480 ⁽¹⁾	96 ⁽¹⁾	<0.14	<0.14	<0.12	<0.14	<0.12	<0.14	<0.12	<0.12	<0.14	<0.12	<0.14	<0.12	5.6	2.9	<0.14	<0.12	<0.14	NA	<0.12
PAHs (µg/L)																					
Acenaphthylene	--	--	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	NA	<0.073	<0.073	<0.073	<0.17>	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073	<0.073
Benzo(a)anthracene	--	--	<0.042	<0.042	<0.042	<0.042	<0.051>	<0.042	<0.042	NA	<0.042	<0.042	<0.048>	<0.087>	<0.042	<0.042	<0.056>	<0.042	<0.050>	<0.042	<0.042
Benzo(a)pyrene	0.2	0.02	<0.016	<0.016	<0.016	<0.016	0.075	<0.016	<0.016	NA	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016	<0.016
Benzo(b)fluoranthene	0.2	0.02	<0.023	<0.023	<0.023	<0.023	0.13	<0.023	<0.023	NA	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	0.085	0.092	<0.023
Benzo(g,h,i)perylene	--	--	<0.031	<0.031	<0.031	<0.031	<0.082>	<0.031	<0.031	NA	<0.031	<0.031	<0.031	<0.099>	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Benzo(k)fluoranthene	--	--	<0.028	<0.028	<0.044>	<0.028	<0.074>	<0.028	<0.028	NA	<0.028	<0.028	<0.028	<0.063>	<0.028	<0.028	<0.028	<0.028	<0.028	<0.028	<0.045>
Chrysene	0.2	0.02	<0.039>	<0.023	<0.023	<0.023	<0.023	<0.023	<0.023	NA	<0.023	<0.023	<0.047>	<0.023	<0.023	<0.023	<0.040>	<0.023	<0.044>	<0.046	<0.023
Dibenzo(a,h)anthracene	--	--	<0.022	<0.022	<0.022	<0.022	0.077	<0.22	<0.022	NA	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022	<0.022
Fluoranthene	400	80	<0.034	<0.034	<0.034	<0.039>	<0.034	<0.034	<0.034	NA	<0.039>	<0.034	<0.034	0.14	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034	<0.034
Fluorene	400	80	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031	NA	<0.031	<0.031	<0.031	<0.031	<0.038>	<0.031	<0.031	<0.031	<0.031	<0.031	<0.031
Indeno(1,2,3-cd)pyrene	--	--	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	NA	<0.090	<0.090	<0.090	<0.14>	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090	<0.090
Methyl-2-naphthalene	--	--	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066	NA	<0.066	<0.066	<0.066	<0.067>	0.42	<0.066	<0.066	<0.066	<0.066	<0.066	<0.066
Naphthalene	40	8	<0.034	<0.034	<0.034	<0.034	<0.038>	<0.034	<0.034	NA	<0.054>	<0.034	<0.034	<0.034	5.9	4.7	<0.034	<0.034	<0.046>	<0.053>	<0.034
Pyrene	250	50	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	NA	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.062>	<0.025	<0.025	<0.025	<0.025

Notes:

1. Samples analyzed by Northern Lake Service, Inc., of Crandon, Wisconsin.
2. The constituent units are in µg/L.
3. NR 140 ES = Enforcement Standard.
4. NR 140 PAL = Preventive Action Limit.
5. < > = concentration estimated between the Limit of Detection and the Limit of Quantitation.
6. **< >** and bold type indicate that the concentration exceeds the Enforcement Standard.
7. Bold type indicates that the concentration exceeds the Preventive Action Limit.
8. NA = Not Analyzed. The duplicate PAH sample for MW-2 on May 17, 2000, was broken at the laboratory.

Footnotes:

- ⁽¹⁾ Standards for both 1,2,4- and 1,3,5-trimethylbenzene.
- ⁽²⁾ PAHs at MW-5 were analyzed twice by Northern Lake Service Inc.'s laboratory in September 1999.

Prepared by: JCO, 6/21/00
Checked by: WJ, 10/18/99
TS, 6/28/00

Table 5
 Summary of Detected Inorganics in Groundwater
 Former Mayville Coke Plant
 Mayville, Wisconsin

CONSTITUENTS	NR 140 ES	NR 140 PAL	MONITORING WELLS																	
			MW-1			MW-1A		MW-2			MW-2A		MW-3		MW-3A		MW-4		MW-5	
			9/1/99	(DUP-1) 9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	DUP-1 5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/17/00	9/1/99	5/25/00	9/1/99 ^(a)	5/17/00
Arsenic	50	5	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<4.2	<7.5>	<4.2	<4.2	<4.2	<4.2	
Chromium	100	10	<0.42	<0.42	<0.79>	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	
Barium	2,000	400	110	110	76	88	72	130	88	88	120	90	230	120	230	250	190	140	91	
Copper	1,300	130	<1.1>	<0.60>	<1.5>	<1.1>	2.3	<0.84>	<0.62>	<0.76>	<0.47	<0.47	2.9	3.2	<0.47	<0.47	<0.47	1.7	<1.6>	
Nickel	100	20	<0.66	<0.90>	<0.96>	<2.0>	<1.7>	<0.66	<1.1>	<1.3>	<0.66	<0.66	<1.2>	<0.86>	<0.66	<0.73>	<1.0>	<0.66	<2.2>	
Selenium	50	10	<2.9>	<3.2>	6.8	6.3	<2.4>	<1.3	<1.6	<1.6	<1.3	<1.6	<3.8>	<4.0>	<1.3	<1.6	<3.1>	<1.6	<2.1	
Zinc	5,000	2,500	<12	<12	<12	12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	<12	3,200	
Cyanide (total) (mg/L)	0.2	0.04	0.033	0.032	<0.012>	0.037	0.038	<0.0032	<0.0044	0.041	<0.0060>	<0.0090>	0.035	0.042	0.033	0.034	0.015	<0.010>	<0.0040>	
Cyanide (WAD) (mg/L)	--	--	<0.0050>	<0.0050>	<0.0044	<0.010>	<0.0044	<0.0032	<0.0044	<0.0060>	<0.0032	<0.0044	<0.010>	<0.0044	<0.0040>	<0.0050>	<0.0040>	<0.0044	<0.0032	
Nitrogen as ammonia (mg/L)	--	--	<0.058>	<0.030>	<0.024	0.071	0.24	<0.037>	<0.029>	<0.024	<0.052>	<0.038>	<0.029>	<0.024	0.64	0.81	<0.035>	<0.024	0.13	

Notes:

1. Samples analyzed by Northern Lake Service, Inc., of Crandon, Wisconsin.
2. Cadmium, lead, mercury, and silver were not detected in the monitoring wells.
3. WAD = weak acid dissociable.
4. < > = concentration estimated between the Limit of Detection and the Limit of Quantitation.
5. NR 140 ES = Enforcement Standard.
6. NR 140 PAL = Preventive Action Limit.
7. and bold type indicate that the concentration exceeds the Enforcement Standard.
8. Bold type indicates that the concentration exceeds the Preventive Action Limit.

Prepared by: JCO, 6/21/00
 Checked by: WJ, 10/18/99
 TS, 6/28/00