

**GIS REGISTRY INFORMATION**

SITE NAME: Malleable Iron Range  
 BRRTS #: 314001263 FID # (if appropriate):  
 COMMERCE # (if appropriate): 53916204115  
 CLOSURE DATE: 04/01/2008  
 STREET ADDRESS: 715 N. Spring Street  
 CITY: Beaver Dam

SOURCE PROPERTY GPS COORDINATES (meters in WTM91 projection): X= 614331 Y= 332841

CONTAMINATED MEDIA: Groundwater  Soil  Both

OFF-SOURCE GW CONTAMINATION >ES:  Yes  No

IF YES, STREET ADDRESS 1: 138 & 143 East Mackie Street

GPS COORDINATES (meters in WTM91 projection): X= 614384 Y= 332651

OFF-SOURCE SOIL CONTAMINATION >Generic or Site-Specific RCL (SSRCL):  Yes  No

IF YES, STREET ADDRESS 1:

GPS COORDINATES (meters in WTM91 projection): X= Y=

CONTAMINATION IN RIGHT OF WAY:  Yes  No

**DOCUMENTS NEEDED:**

- Closure Letter, and any conditional closure letter or denial letter issued
- Copy of most recent deed, including legal description, for all affected properties
- Certified survey map or relevant portion of the recorded plat map (if referenced in the legal description) for all affected properties
- County Parcel ID number, if used for county, for all affected properties
- Location Map which outlines all properties within contaminated site boundaries on USGS topographic map or plat map in sufficient detail to permit the parcels to be located easily (8.5x14" if paper copy). If groundwater standards are exceeded, the map must also include the location of all municipal and potable wells within 1200' of the site.
- Detailed Site Map(s) for all affected properties, showing buildings, roads, property boundaries, contaminant sources, utility lines, monitoring wells and potable wells. (8.5x14", if paper copy) This map shall also show the location of all contaminated public streets, highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding ch. NR 140 ESs and soil contamination exceeding ch. NR 720 generic or SSRCLs.
- Tables of Latest Groundwater Analytical Results (no shading or cross-hatching)
- Tables of Latest Soil Analytical Results (no shading or cross-hatching)
- Isoconcentration map(s), if required for site investigation (SI) (8.5x14" if paper copy). The isoconcentration map should have flow direction and extent of groundwater contamination defined. If not available, include the latest extent of contaminant plume map.
- GW: Table of water level elevations, with sampling dates, and free product noted if present
- GW: Latest groundwater flow direction/monitoring well location map (should be 2 maps if maximum variation in flow direction is greater than 20 degrees)
- SOIL: Latest horizontal extent of contamination exceeding generic or SSRCLs, with one contour
- Geologic cross-sections, if required for SI. (8.5x14" if paper copy)
- RP certified statement that legal descriptions are complete and accurate
- Copies of off-source notification letters (if applicable)
- Letter informing ROW owner of residual contamination (if applicable)(public, highway or railroad ROW)
- Copy of (soil or land use) deed restriction(s) or deed notice if any required as a condition of closure
- Copy of any maintenance plan referenced in the deed restriction.

Modification actions taken after continuing obligations were applied. Refer to BOTW for further information.

**GIS Registry Information – Malleable Iron Range (Former) – WDNR # 03-14-001263**

<u>Property Deeds</u>	Too numerous to include all property deeds on the registry. See WDNR case file.
<u>Groundwater Monitoring Data</u>	Too numerous to include all groundwater monitoring data for all monitoring wells on the registry. Data tables for 22 wells are on the registry. See WDNR case file for additional data.
<u>Soil Sampling Data</u>	Additional soil data tables are in the WDNR case file.
<u>Notice of Residual Groundwater Contamination</u>	A copy of the letter sent to 106 E. Main Street, Beaver Dam, Wisconsin, is included on the registry. Similar letters were sent to 913 N. Spring St., 609 N. Spring St., 603 N. Spring St., 329 Jackson St., 210 E. Main St. and P.O. Box 596, Beaver Dam. See WDNR case file.
<u>Lost Monitoring Wells</u>	A copy of the letter sent to 106 E. Main Street, Beaver Dam, is included in the registry. Similar letters were sent to 609 N. Spring St., Beaver Dam. See WDNR case file.



## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Matthew J. Frank, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY Access via relay - 711

April 1, 2008

John Corey  
Dodge County Corporation Counsel  
127 East Oak Grove Street  
Juneau, WI 53039

SUBJECT: Final Case Closure with Land Use Limitations or Conditions  
Malleable Iron Range (Former), 715 N. Spring Street, Beaver Dam,  
Wisconsin  
WDNR BRRTS Activity # 03-14-001263

Dear Mr. Corey:

On August 15, 2007, the South Central Region Closure Committee reviewed the above referenced case for closure. This committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. On August 27, 2007, you were notified that the Closure Committee had granted conditional closure to this case. The subject property is also known as the Monarch Iron Range property and in 1995, the property was platted into 11 lots and the plat is called Monarch Development.

On February 25, 2008, the Department received correspondence indicating that you have complied with the requirements of closure. The conditions of closure were proper abandonment of monitoring wells and remediation wells, notification to owners of the platted lots within the boundaries of the former Malleable Iron Range property where monitoring wells that could not be located of their future liability associated with those wells, and disposal of investigation/remediation wastes.

Based on the correspondence and data provided, it appears that your case meets the requirements of ch. NR 726, Wisconsin Administrative Code. The Department considers this case closed and no further investigation or remediation is required at this time.

### GIS Registry

The conditions of case closure set out below in this letter require that your site be listed on the Remediation and Redevelopment Program's GIS Registry. The specific reasons are summarized below:

- Residual soil contamination exists that must be properly managed should it be excavated or removed
- Groundwater contamination is present above Chapter NR 140 enforcement standards
- One or more monitoring wells were not located and must be properly abandoned if found

Information that was submitted with your closure request application will be included on the GIS Registry. To review the sites on the GIS Registry web page, visit the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>. If your property is listed on the GIS Registry because of remaining contamination and you intend to construct or reconstruct a well, you will need prior Department approval in accordance with s. NR 812.09(4)(w), Wis. Adm. Code. To obtain approval, Form 3300-254 needs to be completed and submitted to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line <http://dnr.wi.gov/org/water/dwg/3300254.pdf> or at the web address listed above for the GIS Registry.

#### Closure Conditions

Please be aware that pursuant to s. 292.12 Wisconsin Statutes, compliance with the requirements of this letter is a responsibility to which you, other current property owners and any subsequent property owners must adhere. If these requirements are not followed or if additional information regarding site conditions indicates that contamination on or from the site poses a threat to public health, safety, welfare, or the environment, the Department may take enforcement action under s. 292.11 Wisconsin Statutes to ensure compliance with the specified requirements, limitations or other conditions related to the property or this case may be reopened pursuant to s. NR 726.09, Wis. Adm. Code.

#### Remaining Residual Soil Contamination

Residual soil contamination remains at various locations over the entire property as indicated in the information submitted to the Department of Natural Resources. If soil is excavated in the future, then pursuant to ch. NR 718 or, if applicable, ch. 289, Stats., and chs. 500 to 536, the property owner at the time of excavation must sample and analyze the excavated soil to determine if residual contamination remains. Any soil that is excavated must be sampled and analyzed for polycyclic aromatic hydrocarbons (PAHs), volatile organic compounds (VOCs), and metals (lead, cadmium, chromium, arsenic). If sampling confirms that contamination is present, the property owner at the time of excavation will need to determine whether the material would be considered solid or hazardous waste and ensure that any storage, treatment or disposal is in compliance with applicable standards and rules. In addition, all current and future owners and occupants of the property need to be aware that excavation of the contaminated soil may pose an inhalation or other direct contact hazard and as a result special precautions may need to be taken to prevent a direct contact health threat to humans. Direct contact threats must be addressed in any future redevelopment of the property.

#### Remaining Residual Groundwater Contamination

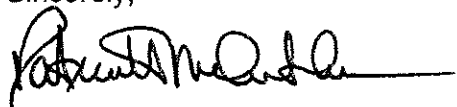
Groundwater impacted by petroleum and/or chlorinated volatile organic compound contamination greater than enforcement standards set forth in ch. NR140, Wis. Adm. Code, is present on the subject property and the off-site properties located at 138 and 143 East Mackie Streets. Off-site property owners have been notified of the presence of groundwater contamination. For more detailed information regarding the locations where groundwater samples have been collected (i.e., monitoring well locations) and the associated contaminant concentrations, refer to the Remediation and Redevelopment Program's GIS Registry at the RR Sites Map page at <http://dnr.wi.gov/org/aw/rr/gis/index.htm>.

Monitoring Wells That Could Not be Properly Abandoned

Your consultant, Victoria Loveland of Shaw Environmental, notified the Department that monitoring wells G101, G103, MW-27 and MW-28 could not be properly abandoned because they had been lost due to being paved over, covered or removed during site development activities. Monitoring well G101 is located on Lot 9 and the parcel is currently owned by Dodge Central Credit Union. Monitoring wells G103 and MW-28 are located on Lot 6 and the parcel is currently owned by Castle Monarch, LLC. Monitoring well MW-27 is on the parcel currently owned by Recheck's Food Pride. A map showing the location of the wells is attached. Your consultant has made a reasonable effort to locate the lost wells to determine whether they were properly abandoned but has been unsuccessful in those efforts. You need to understand that in the future you may be held liable for any problems associated with the monitoring wells if they create a conduit for contaminants to enter groundwater. If in the future any of the lost groundwater monitoring wells are found, the then current owner of the property or parcel will be required to notify the Department and to properly abandon the wells in compliance with the requirements in ch. NR 141, Wis. Adm. Code, and to submit the required documentation of that abandonment to the Department.

The Department appreciates your efforts to restore the environment at this site. If you have any questions regarding this closure decision or anything outlined in this letter, please contact Denise Nettesheim at (608) 275-3209.

Sincerely,



Patrick McCutcheon  
Team Supervisor  
South Central Region Remediation & Redevelopment

Attachment

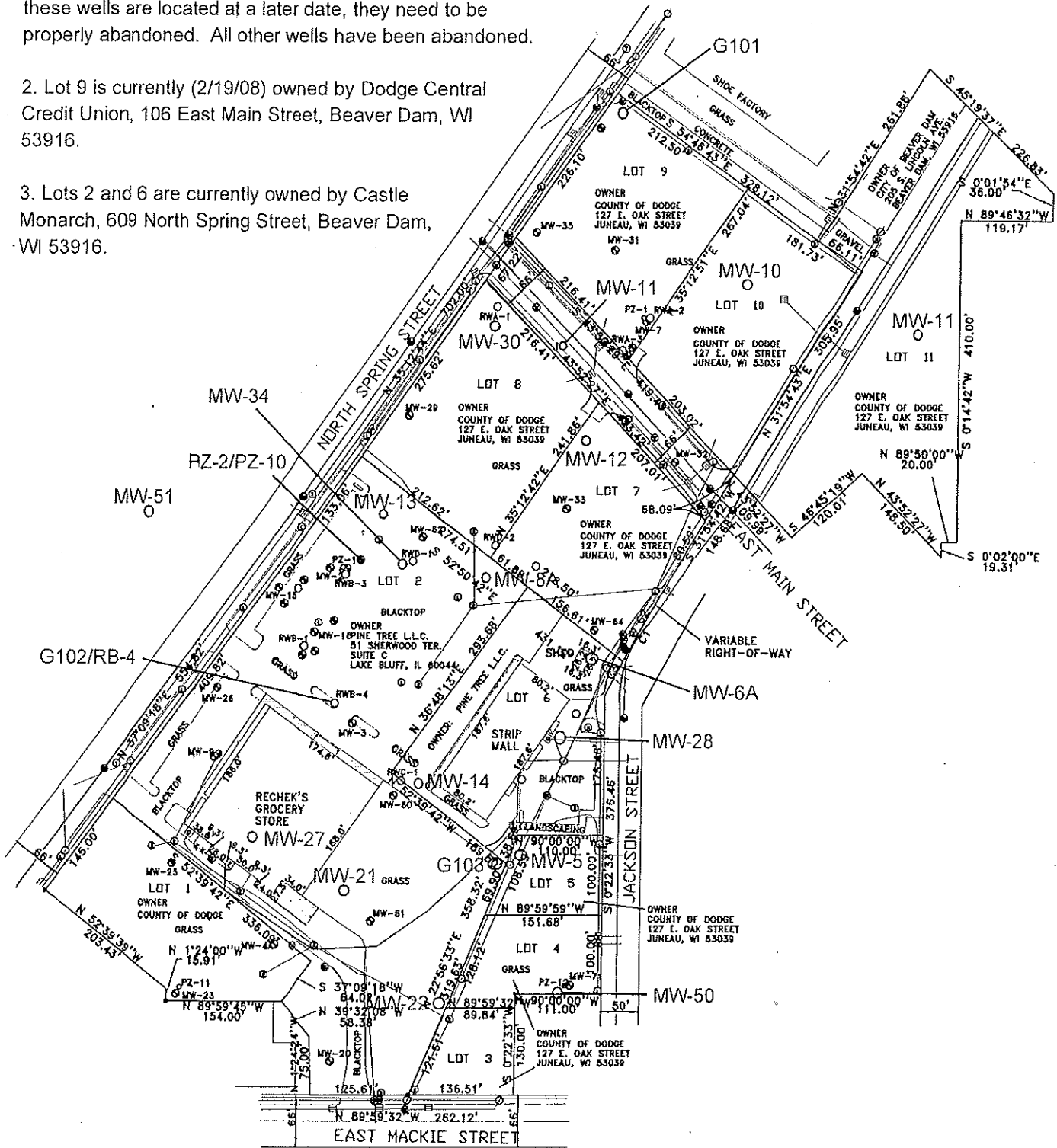
cc: Victoria Loveland, Shaw Environmental, 831 Critter Court, Suite 400, Onalaska, WI 54650-8674  
Daniel & Kathleen Wackett, 143 East Mackie Street, Beaver Dam, WI 53916  
Lee Bronson, 329 Jackson Street, Beaver Dam, WI 53916  
Castle Monarch LLC, 609 North Spring Street, Beaver Dam, WI 53916  
Castle Monarch LLC, 1400 E. Fox Lane, Fox Point, WI 53217  
Dodge Central Credit Union, 106 E. Main Street, Beaver Dam, WI 53916  
Jesse Dretske, 210 East Main Street, Beaver Dam, WI 53916  
GEN3, LLC, 603 North Spring Street, Beaver Dam, WI 53916  
GEN3, LLC, P.O. Box 31, Waupun, WI 53963  
Recheck's Food Pride, 609 North Spring Street, Beaver Dam, WI 53916  
Westfall Masonry LLC, Paul Nooyen, 6919 Donnybill Road, DeForest, WI 53532  
Weyenberg Warehouse Apartments LLC, 913 North Spring Street, Beaver Dam, WI 53916  
Weyenberg Warehouse Apartments LLC, P.O. Box 1547, Madison, WI 53701  
Case File

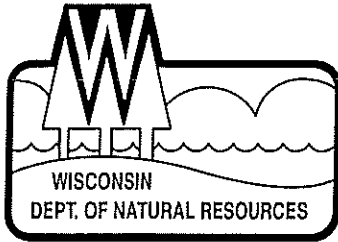
NOTES:

1. Monitoring wells G101, G103, MW-27, and MW28 were not able to be located during well abandonment activities. If these wells are located at a later date, they need to be properly abandoned. All other wells have been abandoned.

2. Lot 9 is currently (2/19/08) owned by Dodge Central Credit Union, 106 East Main Street, Beaver Dam, WI 53916.

3. Lots 2 and 6 are currently owned by Castle Monarch, 609 North Spring Street, Beaver Dam, WI 53916.





## State of Wisconsin \ DEPARTMENT OF NATURAL RESOURCES

Jim Doyle, Governor  
Scott Hassett, Secretary  
Lloyd L. Eagan, Regional Director

South Central Region Headquarters  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711-5397  
Telephone 608-275-3266  
FAX 608-275-3338  
TTY Access via relay - 711

August 27, 2007

John Corey  
Dodge County Corporation Counsel  
127 East Oak Grove Street  
Juneau, WI 53039

Subject: Conditional Closure Decision With Requirements to Achieve Final Closure  
Malleable Iron Range, Site D (non-petroleum contamination), 715 N. Spring  
Street, Beaver Dam, Wisconsin  
WDNR BRRTS Activity # 03-14-001263

Dear Mr. Corey:

On August 15, 2007, the South Central Region Closure Committee reviewed your request for closure of the case described above. This 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 environmental contamination on the site from the former manufacturing operations at the site 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, soil vapor extraction wells, air sparge wells, groundwater extraction wells and any other wells at the site must be properly abandoned in compliance with ch. NR 141, Wis. Adm. Code. Documentation of well abandonment must be submitted to me on Form 3300-5B found at [www.dnr.state.wi.us/org/water/dwg/gw/](http://www.dnr.state.wi.us/org/water/dwg/gw/) or provided by the Department of Natural Resources.

### **PURGE WATER, WASTE AND SOIL PILE REMOVAL**

Any remaining purge water, 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 of Natural Resources' rules. Once that work is completed, please send appropriate documentation regarding the treatment or disposal of the remaining purge water, waste and/or soil piles.

When the above conditions have been satisfied, please submit the appropriate documentation (for example, well abandonment forms, disposal receipts, copies of correspondence, etc.) to verify that applicable conditions have been met, and your case will be closed. Due to the presence of groundwater contamination above ch. NR 140, Wis. Adm. Code, Enforcement Standards, the subject property and the off-site properties at 138 and 143 East Mackie Streets will be listed on the DNR Remediation and Redevelopment GIS Registry of Closed Remediation Sites. Also, due to the presence of soil contamination, the subject property will be listed on the

GIS registry for soil. Information that was submitted with your closure request application will be included on the GIS Registry. To review the site on the GIS Registry web page, visit <http://maps.dnr.state.wi.us/brrts>. In addition, there will be land use controls required for the subject property.

Section 101.143, Wis. Stats., requires that PECFA claimants seeking reimbursement of interest costs, for sites with petroleum contamination, submit a final reimbursement claim within 120 days after they receive a closure letter on their site. For claims not received by the PECFA Program within 120 days of the date of this letter, interest costs after 60 days of the date of this letter will not be eligible for PECFA reimbursement. If there is equipment purchased with PECFA funds remaining at the site, contact the Commerce PECFA Program to determine the method for salvaging the equipment.

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 (608) 275-3209.

Sincerely,



Denise Nettlesheim  
Hydrogeologist  
Bureau for Remediation & Redevelopment

cc: Victoria Loveland, Shaw Environmental, 831 Critter Court, Suite 400, Onalaska, WI  
54650-8674  
Daniel & Kathleen Wackett, 143 East Mackie Street, Beaver Dam, WI 53916  
Case File



# MONARCH DEVELOPMENT

PART OF BLOCK 7, BICKNELL'S ADDITION, LOT 13 OF BLOCK 3, ROSE AND FARRINGTON'S ADDITION, BLOCK 1, MACKIE'S ADDITION, SUBDIVISION OF LOTS 3, 4, AND 13 OF MACKIE'S ADDITION, PART OF OUTLOT 79 AND PART OF OUTLOT 80 IN THE THIRD WARD, ALL OF BLOCK 5, ROSE AND FARRINGTON'S ADDITION, VACATED EAST MAIN STREET, VACATED JACKSON STREET, A PART OF VACATED EAST MAIN STREET, AND PART OF THE FORMER CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD RIGHT OF WAY, ALL BEING IN PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4; OF SECTION 33, TOWN 12 NORTH, RANGE 14 EAST, CITY OF BEAVER DAM, DODGE COUNTY, WISCONSIN.

### OWNER'S CERTIFICATE

ATTWNEY E. HOGLUND, REGISTERED LAND SURVEYOR OF THE STATE OF WISCONSIN, HEREBY CERTIFY THAT BY THE DIRECTION OF RALPH E. SHARP, JR., AGENT FOR DODGE COUNTY, A WISCONSIN MUNICIPAL CORPORATION, 127 E. OAK STREET, JUNEAU, WISCONSIN 53039, PART OWNER, I HAVE REVEYED, DIVIDED, AND MAPPED THE PLAT OF MONARCH DEVELOPMENT LOCATED IN PART OF BLOCK 7, BICKNELL'S ADDITION, LOT 13 OF BLOCK 3, ROSE AND FARRINGTON'S ADDITION, BLOCK 1, MACKIE'S ADDITION, SUBDIVISION OF LOTS 3, 4, AND 13 OF MACKIE'S ADDITION, PART OF OUTLOT 79 AND PART OF OUTLOT 80 IN THE THIRD WARD, ALL OF BLOCK 5, ROSE AND FARRINGTON'S ADDITION, VACATED EAST MAIN STREET SHOWN HEREON VACATED ON AUGUST 28, 1920; VACATED JACKSON STREET PER RESOLUTION 77595 AND AS RECORDED IN VOLUME 849 OF RECORDS ON PAGE 13 AND 14 AND THAT PART OF VACATED JACKSON STREET LYING SOUTHERLY OF EAST MAIN STREET SHOWN HEREON; A PART OF VACATED EAST MAIN STREET PER RESOLUTION 77595 AND AS RECORDED IN VOLUME 849 OF RECORDS ON PAGES 13 AND 14 AND PART OF VACATED CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD PER VOLUME 852 OF RECORDS ON PAGE 590. ALL BEING A PART OF THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4, THE NORTHWEST 1/4 OF THE SOUTHWEST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4; OF SECTION 33, TOWN 12 NORTH, RANGE 14 EAST, CITY OF BEAVER DAM, DODGE COUNTY, WISCONSIN. THE PARCEL IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 33; THENCE, ALONG THE EAST LINE OF THE SOUTHWEST 1/4 OF SAID SECTION 33, S. 00°10'32"E, 2657.61 FEET TO THE EAST 1/4 CORNER OF SAID SECTION 33; THENCE S. 65°58'51"W, 1979.05 FEET TO THE POINT OF BEGINNING, LYING ON THE WESTERLY RIGHT-OF-WAY LINE OF PRAIRIE STREET; THENCE, ALONG SAID SOUTHWESTERLY RIGHT-OF-WAY LINE, S. 45°19'37"E, 109.47 FEET TO THE WEST RIGHT-OF-WAY LINE OF NORTH LINCOLN AVENUE; THENCE, ALONG SAID WEST LINE, S. 00°01'54"E, 36.80 FEET; THENCE N. 89°46'42"W, 119.17 FEET; THENCE S. 00°14'42"W, 410.00 FEET; THENCE N. 89°50'00"W, 20.00 FEET; THENCE S. 00°02'00"E, 11 FEET; THENCE N. 43°52'27"W, 148.50 FEET; THENCE S. 46°45'19"W, 120.01 FEET TO THE THEASTERLY RIGHT-OF-WAY LINE OF EAST MAIN STREET; THENCE, ALONG SAID NORTHEASTERLY LINE, N. 43°52'27"W, 109.89 FEET TO THE EASTERLY RIGHT-OF-WAY LINE OF THE CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD AS VACATED BY VOLUME 852 OF RECORDS ON PAGES 591-591; THENCE, ALONG SAID EASTERLY RIGHT-OF-WAY LINE, S. 31°54'42"W, 148.68 FEET TO A POINT OF CURVATURE OF A CURVE TO THE LEFT, HAVING A RADIUS OF 2832.00 FEET AND A CHORD WHICH RAYS S. 30°05'42.5"W, 179.55 FEET; THENCE SOUTHWESTERLY, 179.58 FEET ALONG THE ARC OF SAID CURVE THROUGH A CENTRAL ANGLE OF 03°37'59" TO ITS INTERSECTION WITH THE WEST RIGHT-OF-WAY LINE OF JACKSON STREET; THENCE, ALONG SAID WEST RIGHT-OF-WAY LINE, S. 00°22'33"W, 378.46 FEET TO THE NORTH LINE OF THE PARCEL, DESCRIBED IN VOLUME 704 OF RECORDS ON PAGE 574; THENCE, ALONG SAID NORTH LINE AND THE NORTH LINE OF THE PARCEL, DESCRIBED IN VOLUME 704 OF RECORDS ON PAGE 673, N. 50°00'00"W, 111.00 FEET TO THE WEST LINE OF LAST SAID PARCEL; THENCE, ALONG SAID WEST LINE AND ITS SOUTHERLY EXTENSION, S. 00°22'33"W, 190.00 FEET TO THE WEST RIGHT-OF-WAY LINE OF EAST MACKIE STREET; THENCE, ALONG SAID NORTH LINE, S. 19°52'14"W, 261.12 FEET; THENCE N. 01°24'14"W, 15.00 FEET; THENCE N. 39°32'08"W, 58.18 FEET; THENCE N. 89°49'45"W, 154.00 FEET; THENCE N. 01°24'14"W, 15.91 FEET; THENCE N. 51°39'42"W, 203.43 FEET TO THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF NORTH SPRING STREET; THENCE, ALONG SAID THEASTERLY RIGHT-OF-WAY LINE, N. 37°09'18"E, 554.82 FEET; THENCE, CONTINUING ALONG SAID THEASTERLY RIGHT-OF-WAY LINE, N. 35°12'44"E, 702.00 FEET TO THE CENTERLINE OF VACATED EAST MAIN STREET AS RECORDED IN VOLUME 849 OF RECORDS ON PAGES 13 AND 14; THENCE, ALONG THE CENTERLINE, S. 54°49'43"E, 328.12 FEET TO ITS INTERSECTION WITH THE WESTERLY RIGHT-OF-WAY LINE OF AFORESAID VACATED CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD; THENCE, ALONG SAID WESTERLY RIGHT-OF-WAY LINE, N. 31°54'42"E, 261.88 FEET TO ITS INTERSECTION WITH AFORESAID SOUTHWESTERLY RIGHT-OF-WAY LINE OF PRAIRIE STREET; THENCE, ALONG SAID THEASTERLY RIGHT-OF-WAY LINE, S. 45°19'37"E, 117.36 FEET TO THE POINT OF BEGINNING.

SAID PARCEL CONTAINS 715,371 SQUARE FEET OR 16,4226 TOTAL ACRES, MORE OR LESS. ALL BOUNDARIES ARE ORIENTED TO THE EAST LINE OF THE NORTHEAST 1/4 OF SAID SECTION 33, WHICH IS ADJUSTED TO BEAR S. 00°10'32"E.

I HEREBY CERTIFY THAT THIS PLAT IS A CORRECT REPRESENTATION OF ALL EXTERIOR BOUNDARIES OF THE LAND SURVEYED AND THE SUBDIVISION THEREOF MADE. THAT I FULLY COMPLIED WITH THE PROVISIONS OF CHAPTER 136 OF THE WISCONSIN STATE STATUTES AND CHAPTER 18 SUBDIVISION AND PLATTING ORDINANCE OF THE CITY OF BEAVER DAM, DODGE COUNTY, WISCONSIN IN SURVEYING AND PLATTING THE SAME.

DATED THIS 11th DAY OF October, 1995.  
WITNESSED THIS 16th DAY OF October, 1995.



ATTWNEY E. HOGLUND, LAND SURVEYOR, S-1910  
MID-STATE ASSOCIATES, INC.  
WARREN STREET, BEAVER DAM, WI 53916

### OWNER'S CERTIFICATE OF DEDICATION

WE, DODGE COUNTY, A WISCONSIN MUNICIPAL CORPORATION, BEING DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, AS OWNER OF ALL OF THE LAND INCLUDED IN THIS PLAT EXCEPT FOR THAT PORTION OF LOT 11 HEREOF THAT IS VACATED JACKSON STREET AND THE CITY OF BEAVER DAM, A MUNICIPAL CORPORATION OF DODGE COUNTY, WISCONSIN, BEING DULY ORGANIZED AND EXISTING UNDER AND BY VIRTUE OF THE LAWS OF THE STATE OF WISCONSIN, AS OWNER OF THAT PART OF LOT 11 HEREOF THAT IS VACATED JACKSON STREET, DO HEREBY CERTIFY THAT SAID CORPORATIONS CAUSED THE LAND DESCRIBED ON THIS PLAT TO BE SURVEYED, DIVIDED, MAPPED AND DEDICATED AS REPRESENTED ON THE PLAT. WE ALSO CERTIFY THAT THIS PLAT IS REQUIRED BY SECTION 235.10 OR 235.12 OF THE REVISED WISCONSIN STATUTES TO BE SUBMITTED TO THE FOLLOWING FOR APPROVAL OR OBJECTION:

- (1) DEPARTMENT OF AGRICULTURE, TRADE AND CONSUMER PROTECTION
- (2) CITY OF BEAVER DAM
- (3) DODGE COUNTY PLANNING AND DEVELOPMENT DEPARTMENT

WITNESS THE HAND AND SEAL OF SAID OWNER, AT Beaver, WISCONSIN, ON THIS 20th DAY OF October, 1995.

IN THE PRESENCE OF: DODGE COUNTY, A WISCONSIN MUNICIPAL CORPORATION

BY: Charles E. Swain  
CHARLES E. SWAIN, COUNTY BOARD CHAIRMAN

BY: Dorothy E. Ebert  
DOROTHY E. EBERT, COUNTY CLERK

IN THE PRESENCE OF: CITY OF BEAVER DAM, A MUNICIPAL CORPORATION OF DODGE CO., WI

BY: Steven R. Sabatke  
STEVEN R. SABATKE, MAYOR

BY: Gary H. Dummer  
GARY H. DUMMER, CITY CLERK

STATE OF WISCONSIN, ss  
DODGE COUNTY

PERSONALLY CAME BEFORE ME THIS 20th DAY OF October, 1995, THE ABOVE NAMED CHARLES E. SWAIN AND DOROTHY E. EBERT, TO ME KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED THE SAME.

Chris X. Yehias  
NOTARY PUBLIC, STATE OF WISCONSIN  
MY COMMISSION EXPIRES April 14, 1997.

Document # 816420  
Received this 20th day of Oct 19 95 at 1:28 PM  
and recorded in Vol. 647 of  
Plats, Page 637  
DODGE COUNTY REGISTER OF DEEDS  
Chris X. Yehias

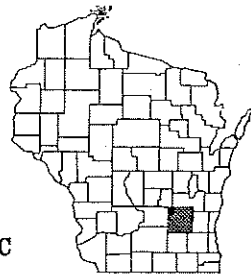
STATE OF WISCONSIN, ss  
DODGE COUNTY

PERSONALLY CAME BEFORE ME THIS 20th DAY OF October, 1995, THE ABOVE NAMED STEVEN R. SABATKE AND GARY H. DUMMER, TO ME KNOWN TO BE THE PERSONS WHO EXECUTED THE FOREGOING INSTRUMENT AND ACKNOWLEDGED THE SAME.

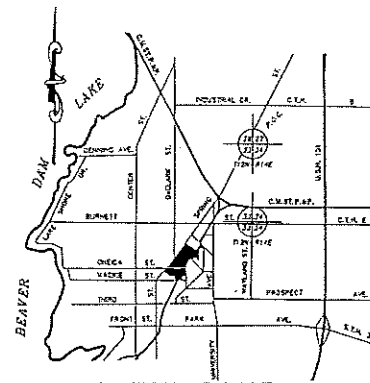
Steven R. Sabatke  
NOTARY PUBLIC, STATE OF WISCONSIN  
MY COMMISSION EXPIRES 1-4-98

There are no objections to this plat with respect to Sects 235.15, 235.16, 235.20 and 235.21 (1) and (2), Wis. Stats., or by the County Planning Agency.

Certified this 17th day of October, 19 95  
Jill Anne A. Stow  
Department of Agriculture, Trade & Consumer Protection



LOCATION MAP  
NOT TO SCALE



VICINITY MAP  
NOT TO SCALE

### TREASURER'S CERTIFICATE

WE, BEING THE DULY ELECTED, QUALIFIED AND ACTING TREASURERS OF THE CITY OF BEAVER DAM AND COUNTY OF DODGE, DO HEREBY CERTIFY THAT IN ACCORDANCE WITH THE RECORDS IN OUR OFFICES, THERE ARE NO UNREDEEMED TAX SALES AND NO UNPAID TAXES OR SPECIAL ASSESSMENTS AFFECTING ANY OF THE LANDS INCLUDED IN THE PLAT OF "MONARCH DEVELOPMENT".

DATED THIS 20th DAY OF October, 1995. Roy Erickson  
ROY ERICKSON, CITY TREASURER

DATED THIS 20th DAY OF October, 1995. Karen E. Freben  
KAREN FREBER, COUNTY TREASURER

### COMMON COUNCIL RESOLUTION

RESOLVED, THAT THE PLAT OF MONARCH DEVELOPMENT IN THE CITY OF BEAVER DAM, WISCONSIN, IS HEREBY APPROVED BY THE COMMON COUNCIL OF BEAVER DAM, WISCONSIN.

RESOLUTION NUMBER: 190-95

DATED THIS 20th DAY OF October, 1995. Steven R. Sabatke  
STEVEN R. SABATKE, MAYOR

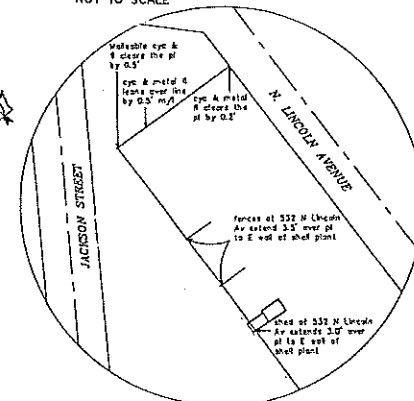
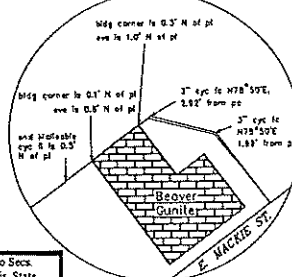
I, HEREBY CERTIFY THAT THE FOREGOING IS A COPY OF A RESOLUTION ADOPTED BY THE COMMON COUNCIL OF THE CITY OF BEAVER DAM, WISCONSIN.

DATED THIS 20th DAY OF October, 1995. Gary H. Dummer  
GARY H. DUMMER, CITY CLERK

DETAIL 2  
NOT TO SCALE

Sketch showing visible encroachments along the surveyed lines of the Middleboro Iron Range Company property and adjoining private property only.

DETAIL 1  
NOT TO SCALE



SHEET 1 OF 2

MSA MID-STATE ASSOCIATES, INC.  
Engineers, Architects, Planners, Surveyors  
117 Warren Street Beaver Dam WI 53916 (614-887-4212)  
© 1994 MID-STATE ASSOCIATES

This document is a true and correct reproduction of the record filed in this office.  
Certified March 13, 2007  
Chris Planasch  
CHRIS PLANASCH  
Register of Deeds  
Dodge County, Wisconsin

Off. 8871262

Calc A Page 257

# MONARCH DEVELOPMENT

PART OF BLOCK 7, BICKNELL'S ADDITION, LOT 13 OF BLOCK 3, ROSE AND FARRINGTON'S ADDITION, BLOCK 1, MACKIE'S ADDITION, SUBDIVISION OF LOTS 3, 4, AND 13 OF MACKIE'S ADDITION, PART OF OUTLOT 79 AND PART OF OUTLOT 80 IN THE THIRD WARD, ALL OF BLOCK 5, ROSE AND FARRINGTON'S ADDITION, VACATED EAST MAIN STREET, VACATED JACKSON STREET, A PART OF VACATED EAST MAIN STREET, AND PART OF THE FORMER CHICAGO, MILWAUKEE, ST. PAUL AND PACIFIC RAILROAD RIGHT OF WAY, ALL BEING IN PART OF THE SOUTHEAST 1/4 OF THE SOUTHWEST 1/4, THE NORTHWEST 1/4 OF THE SOUTHEAST 1/4 AND THE SOUTHWEST 1/4 OF THE SOUTHWEST 1/4; OF SECTION 33, TOWN 12 NORTH, RANGE 14 EAST, CITY OF BEAVER DAM, DODGE COUNTY, WISCONSIN.

N.E. COR.  
SEC. 33 T.12 N., R. 14 E.  
(3" STEEL CROSS IN CONCRETE, PD.)  
S. 1/4 COR.  
SEC. 33 T.12 N., R. 14 E.

There are no objections to this plat with respects to Sects. 236.15, 236.16, 236.20 and 236.21 (1) and (2), Wis. Stats., or by the County Planning Agency.

Certified this 17th day of October, 1995

*Jeanne A. Storm*  
Department of Agriculture, Trade & Consumer Protection

- NOTES:**
1. THIS PLAT IS SUBJECT TO ANY AND ALL ADDITIONAL DEED RESTRICTIONS THAT MAY HAVE BEEN RECORDED PRIOR TO OR CONCURRENT HEREMITH.
  2. THE LOTS OF THIS PLAT ARE SUBJECT TO ANY AND ALL EASEMENTS OR AGREEMENTS, OF RECORD AND/OR FACT, SOME OF WHICH MAY NOT BE DISPECTED HEREIN.
  3. RESIDUAL UTILITY EASEMENTS EXIST WITHIN THE VACATED RAILROAD RIGHT-OF-WAY SHOWN AS RECORDED IN VOLUME 692 OF RECORDS ON PAGES 590-591 AND VACATED EAST MAIN STREET AND VACATED JACKSON STREET PER VOLUME 849 OF RECORDS ON PAGES 13-14.
  4. THIS PLAT INCLUDES LOTS 2 AND 3 OF DODGE COUNTY CERTIFIED SURVEY MAP NO. 2239 AND LOT 1 OF DODGE COUNTY CERTIFIED SURVEY MAP NO. 3634. A LEGAL CONCLUSION WAS MADE THAT THESE CERTIFIED SURVEY MAPS WERE VOID SINCE SECTION 236.34(1) OF THE WISCONSIN STATUTES WERE NOT FOLLOWED IN RELATION TO ALTERING RECORDED PLAT BOUNDARIES AND THEREFOR WERE NOT REFERENCED HEREIN.

FOUND MONUMENTS FALL 1.54 FEET WEST OF EAST R/W OF VACATED JACKSON STREET.

**OWNER AND SUBDIVIDER**

DODGE COUNTY, A WISCONSIN MUNICIPAL CORPORATION  
C/O CHARLES E. SWAIN, COUNTY BOARD CHAIRMAN  
DOROTHY E. EBERT, COUNTY CLERK  
127 E. OAK STREET  
THIRD FLOOR ADMINISTRATION BLDG.  
JANEAU, WI. 53039-1329

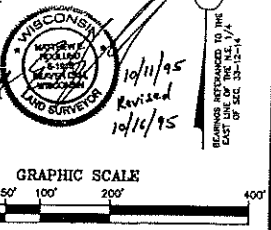
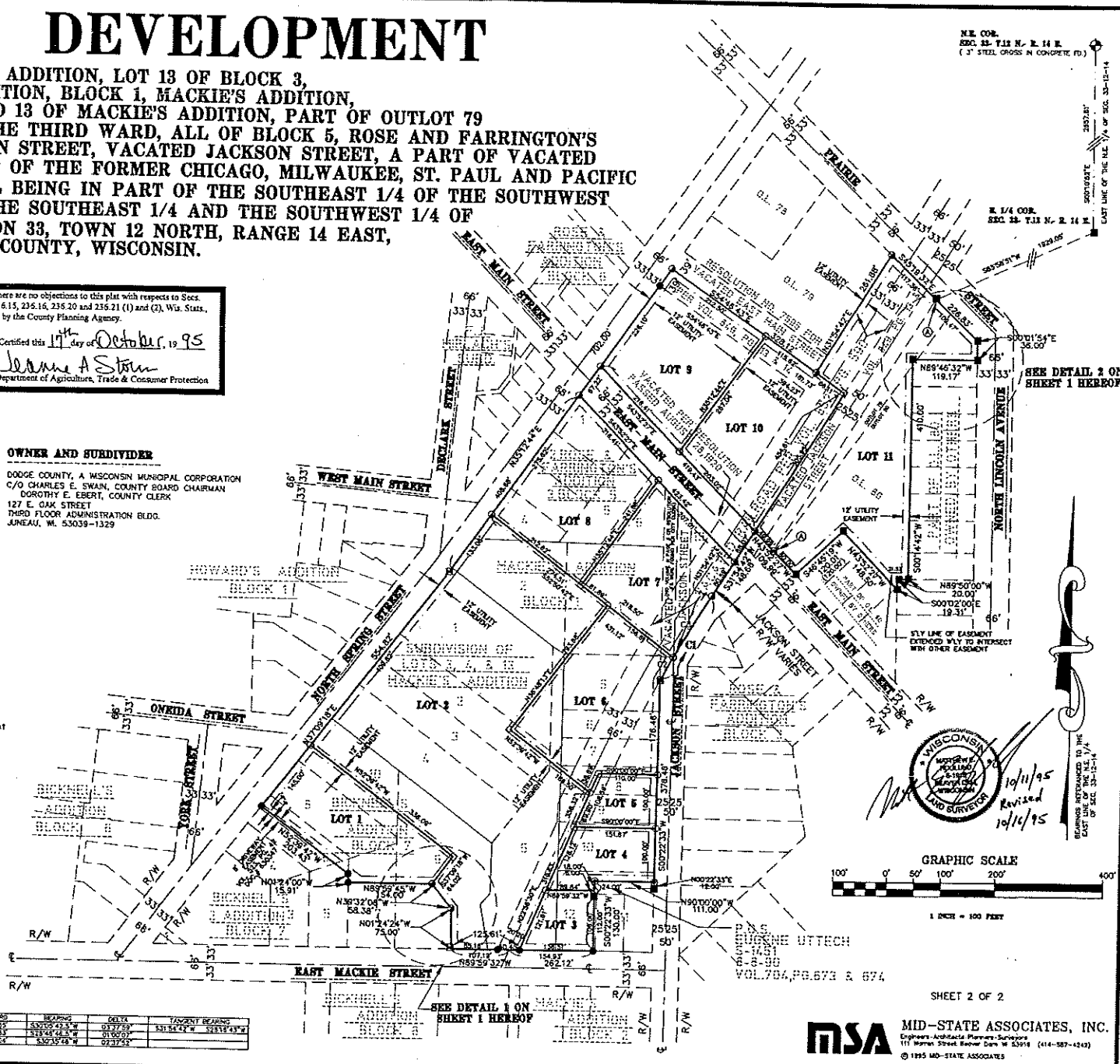
- LEGEND**
- FD, CUT CROSS IN CONC.
  - FD, 5/8" IRON REBAR W/ 125' ALUMINUM CAP
  - FD, 5/8" IRON REBAR
  - FD, 1" IRON PIPE
  - SET 1/4" BY 24" IRON REBAR-4.33 ELS./FT.
  - SET 1-1/4" BY 30" IRON REBAR-4.33 ELS./FT.
  - ADJUTING SUBDIVISION / R/W LINE
  - SECTIONAL SUBDIVISION LINE
  - BOUNDARY/LOT LINE
  - 12 FOOT UTILITY EASEMENT DESIGNATED ON THIS PLAT - ADJUS BOUNDARY AND R/W LINES - CENTERED IN EACH SIDE OF INTERIOR LOT LINES

**LOT AREA**

LOT NO.	SQ. FT.	ACRES
1	44,585	1.0236
2	221,308	5.0805
3	12,675	0.2910
4	18,800	0.4316
5	13,084	0.3004
6	60,131	1.3804
7	47,277	1.0853
8	34,983	0.8022
9	52,398	1.2028
10	54,371	1.2482
11	107,946	2.4781
ROADWAY (EAST MAIN ST.)	27,814	0.6385
TOTAL AREA	715,371	16.4226

**CURVE DATA TABLE**

CH/UV	LOT	RADIUS	LENGTH	TANGENT	CHORD	BEARING	CHORD BEARING
01	6	2932.00	172.54	89.81	172.55	S307°29'25"W	D137°59'
02	7	2932.00	172.54	89.81	172.55	S111°02'12"W	S125°19'37"
03	7	2932.00	130.02	63.04	130.02	S107°19'18"W	D137°59'



WISCONSIN  
JANUARY 1995  
REGISTERED  
LAND SURVEYOR  
10/11/95  
Revised  
10/16/95

MILKINGNE UTTECH  
1111 N. 1ST ST.  
JANESVILLE, WI 53402  
VOL. 784, PG. 673 & 674

SHEET 2 OF 2

**MSA** MID-STATE ASSOCIATES, INC.  
Engineers, Architects, Planners, Surveyors  
111 Walnut Street, Beaver Dam, WI 53018 (614-987-4242)  
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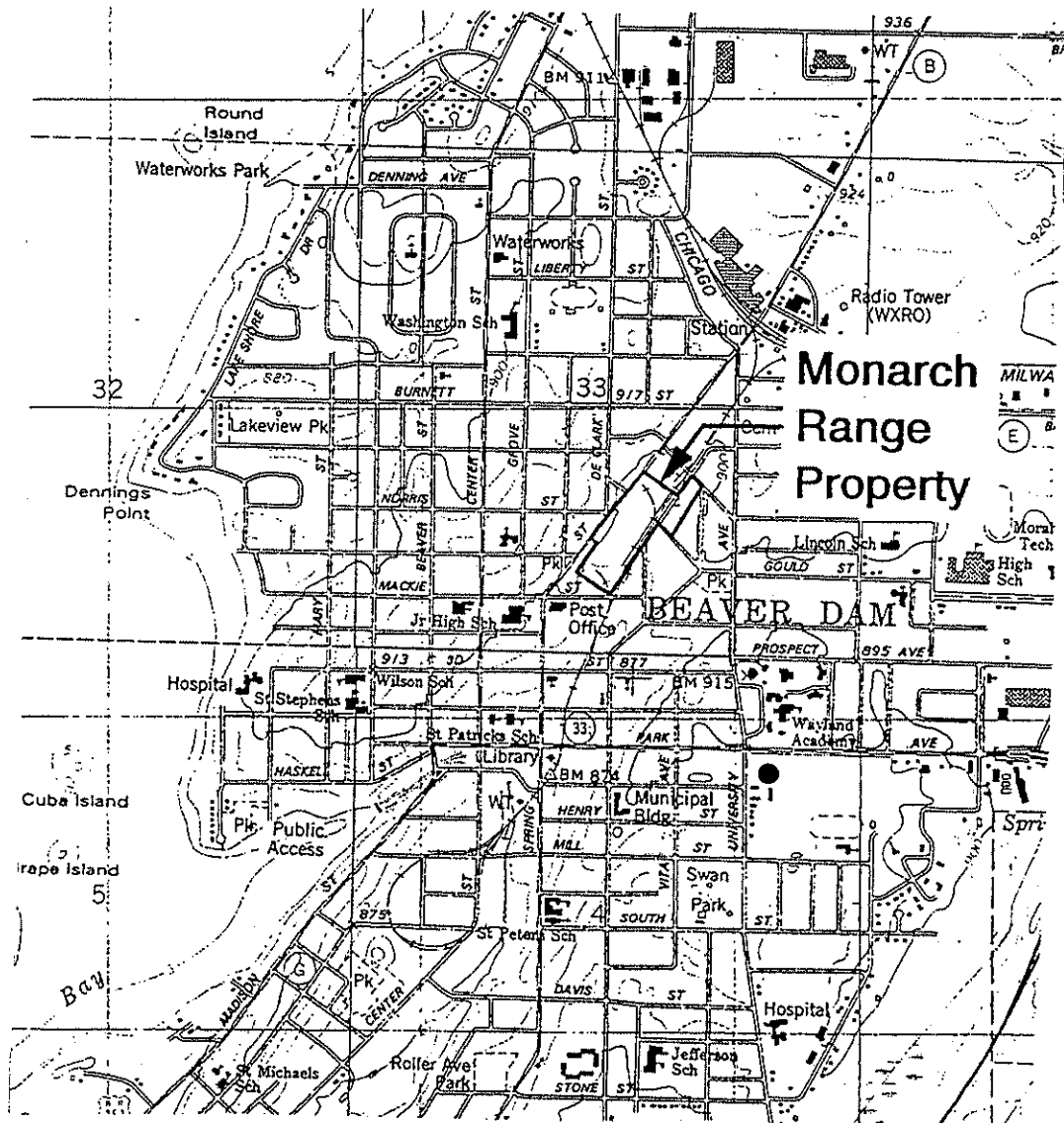
off 887/262


Cab. A Page 257

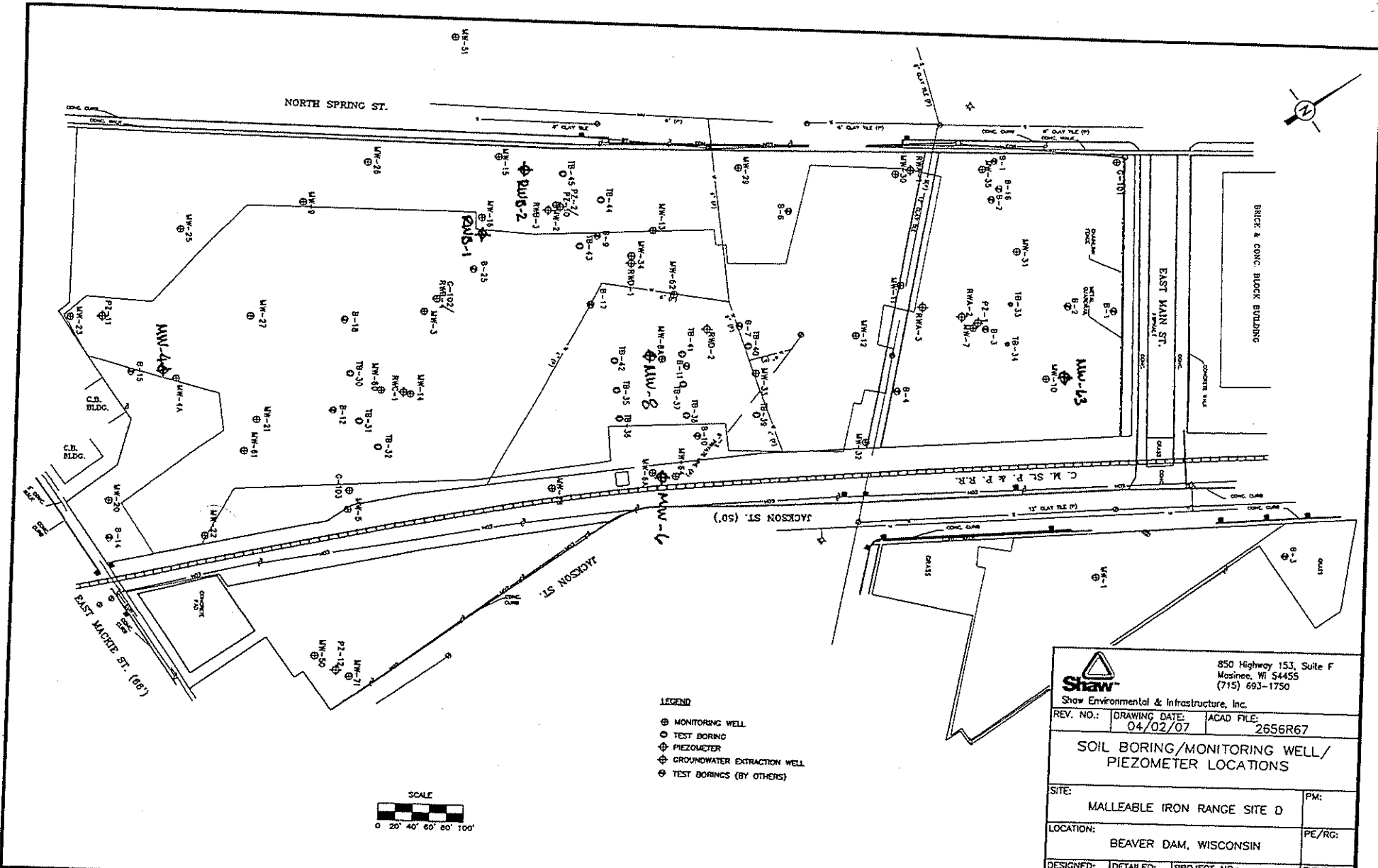
Parcel of Property	Legal Description	Parcel Identification Number	Property Address	Most Recent Deed	Current Owner of Property
Lot 1 of Plat of Monarch Development	Lot 1 of the Plat of Monarch Development located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3334-031	603 N. Spring Street Beaver Dam, WI 53916	Warranty Deed Document No. 1057566	GEN3, LLC, a Wisconsin limited liability company
Lot 2 of Plat of Monarch Development	Lot Two (2) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as recorded in Cabinet A of Plats at page 257.	206-1214-3343-000	609 N. Spring Street Beaver Dam, WI 53916	Special Warranty Deed Document No. 1014378	Castle Monarch, LLC, a Wisconsin limited liability company
Lot 3 of Plat of Monarch Development	Lot Three (3) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-001	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 4 of Plat of Monarch Development	Lot Four (4) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-002	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 5 of Plat of Monarch Development	Lot Five (5) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-003	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 6 of Plat of Monarch Development	Lot Six (6) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as recorded in Cabinet A of Plats at page 257.	206-1214-3343-004	709 through 719 N. Spring Street Beaver Dam, WI 53916	Special Warranty Deed Document No. 1014378	Castle Monarch, LLC, a Wisconsin limited liability company
Lot 7 of Plat of Monarch Development	Lot Seven (7) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-106	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 8 of Plat of Monarch Development	Lot Eight (8) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-107	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 9 of Plat of Monarch Development	Lot 9 of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as corrected by an Affidavit, dated December 17, 1996, recorded December 17, 1996, in the Office of the Register of Deeds in and for Dodge County, Wisconsin, in Volume 906 of Records, at Pages 416 and 417, both inclusive, as Document No. 837864.	206-1214-3342-108	No address has been assigned	Warranty Deed Document No. 1049442	Dodge Central Credit Union
Lot 10 of Plat of Monarch Development	Lot 10, Plat of Monarch Development, in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-109	106 E. Main Street Beaver Dam, WI 53916	Warranty Deed Document No. 873917	Dodge Central Credit Union

Parcel of Property	Legal Description	Parcel Identification Number	Property Address	Most Recent Deed	Current Owner of Property
Lot 1 of Plat of Monarch Development	Lot 1 of the Plat of Monarch Development located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3334-031	603 N. Spring Street Beaver Dam, WI 53916	Warranty Deed Document No. 1057566	GEN3, LLC, a Wisconsin limited liability company
Lot 2 of Plat of Monarch Development	Lot Two (2) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as recorded in Cabinet A of Plats at page 257.	206-1214-3343-000	609 N. Spring Street Beaver Dam, WI 53916	Special Warranty Deed Document No. 1014378	Castle Monarch, LLC, a Wisconsin limited liability company
Lot 3 of Plat of Monarch Development	Lot Three (3) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-001	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 4 of Plat of Monarch Development	Lot Four (4) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-002	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 5 of Plat of Monarch Development	Lot Five (5) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3343-003	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 6 of Plat of Monarch Development	Lot Six (6) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as recorded in Cabinet A of Plats at page 257.	206-1214-3343-004	709 through 719 N. Spring Street Beaver Dam, WI 53916	Special Warranty Deed Document No. 1014378	Castle Monarch, LLC, a Wisconsin limited liability company
Lot 7 of Plat of Monarch Development	Lot Seven (7) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-106	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 8 of Plat of Monarch Development	Lot Eight (8) of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-107	No address has been assigned	Quit Claim Deed Document No. 712394 Document No. 712395 Document No. 812575	Dodge County, Wisconsin
Lot 9 of Plat of Monarch Development	Lot 9 of the Plat of Monarch Development, located in the City of Beaver Dam, Dodge County, Wisconsin, as corrected by an Affidavit, dated December 17, 1996, recorded December 17, 1996, in the Office of the Register of Deeds in and for Dodge County, Wisconsin, in Volume 906 of Records, at Pages 416 and 417, both inclusive, as Document No. 837864.	206-1214-3342-108	No address has been assigned	Warranty Deed Document No. 1049442	Dodge Central Credit Union
Lot 10 of Plat of Monarch Development	Lot 10, Plat of Monarch Development, in the City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-109	106 E. Main Street Beaver Dam, WI 53916	Warranty Deed Document No. 873917	Dodge Central Credit Union


Parcel of Property	Legal Description	Parcel Identification Number	Property Address	Most Recent Deed	Current Owner of Property
Lot 11 of plat of "Monarch Development" was divided into two separate lots by a Quit Claim Deed, which was recorded in the Office of the Register of Deeds in and for Dodge County, Wisconsin, as Document No. 911654. After this division into two separate lots by this Quit Claim Deed, the smaller portion of Lot 11 was owned by Weyenberg Warehouse Apartments, LLC, and the larger portion of Lot 11 continued, temporarily, in the ownership of Dodge County, Wisconsin.	A parcel of land being a part of Lot 11 of the Plat of Monarch Development as recorded in Cabinet A of Plats on Page 257 in the Dodge County Register of Deeds Office; and also being a part of the former Chicago, Milwaukee, St. Paul and Pacific Railroad right-of-way; and being located in the City of Beaver Dam, Dodge County, Wisconsin. Said parcel is more particularly described as follows: Commencing at the most Northerly corner of said Lot 11 of Monarch Development; thence S.31° 54' 42" W. along a Westerly line of said Lot 11, 261.88 feet to a point on the Northeasterly line of Lot 10 of said Monarch Development; thence S. 54° 46' 43" E. along the Northeasterly line of said Lot 10, 52.59 feet; thence N. 31° 54' 42" E., parallel with the Westerly right-of-way line of Jackson St., 253.03 feet to the Southwesterly right-of-way line of Prairie St.; thence N. 45° 19' 37" W. along said Southwesterly right-of-way line of Prairie St., 53.83 feet to the point of commencement. Said parcel contains 13,516 sq. ft., more or less (0.31 acres).	206-1214-3342-084	913 N. Spring Street Beaver Dam, WI 53916	Quit Claim Deed Document No. 911654	Weyenberg Warehouse Apartments, LLC
The larger portion of Lot 11 of Plat of Monarch Development was further subdivided into three separate lots by Certified Survey Map No. 5703, which was recorded in the Office of the Register of Deeds in and for Dodge county, Wisconsin, as Document No. 1042122. I will list below, separately, each of these three lots.					
Lot 1 - Part of Lot 11 of Plat of Monarch Development	Lot 1 of Certified Survey Map No. 5703 as recorded in Volume 37 of Certified Surveys on Page 279 as Document No. 1042122; being a part of Lot 11 of Monarch Development and Certified Survey Map No. 5456, City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-133	329 Jackson Street Beaver Dam, WI 53916	Warranty Deed Document No. 1073311	Lee W. Bronson
Lot 2 - Part of Lot 11 of Plat of Monarch Development	Parcel shown on Certified Survey Map No. 5456, being a part of Lot 11, Monarch Development, located in part of the Northwest 1/4 of the Southeast 1/4, Section 33, Town 12 North, Range 14 East, City of Beaver Dam, Dodge County, Wisconsin, as recorded in Volume 35 of Surveys at page 14 as Document No. 1013666.	206-1214-3342-134	No address has been assigned	Warranty Deed Document No. 1023640	Westfall Masonry, L.L.C., a Wisconsin limited liability company
Lot 3 - Part of Lot 11 of Plat of Monarch Development	Lot 3 of Certified Survey Map No. 5703 as recorded in Volume 37 of Certified Surveys on Page 279 as Document No. 1042122; being a part of Lot 11 of Monarch Development and Certified Survey Map No. 5456, City of Beaver Dam, Dodge County, Wisconsin.	206-1214-3342-135	210 E. Main Street Beaver Dam, WI 53916	Warranty Deed Document No. 1045579	Jesse M. Dretske, a single person



		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		Show Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	04/02/07	2656R67	
<b>SITE LOCATION MAP</b>			
SITE:		PM:	
MALLEABLE IRON RANGE SITE D			
LOCATION:		PE/RC:	
BEAVER DAM, WISCONSIN			
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	1



- LEGEND**
- ⊕ MONITORING WELL
  - ⊙ TEST BORING
  - ⊕ PIEZOMETER
  - ⊕ GROUNDWATER EXTRACTION WELL
  - ⊕ TEST BORINGS (BY OTHERS)

		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		Shaw Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	04/02/07	2656R67	
<b>SOIL BORING/MONITORING WELL/ PIEZOMETER LOCATIONS</b>			
SITE:		MALLEABLE IRON RANGE SITE D	
LOCATION:		BEAVER DAM, WISCONSIN	
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	2

**Table 2 (Continued)**  
**Site Investigation Soil Sample Laboratory Analytical Results**  
**(Samples collected by Shaw Environmental)**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Sample Location	Sample Depth	Sample Date	GRO (ppm)	DRO (ppm)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Lead (ppm)	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Mercury (ppm)	Selenium (ppm)	Silver (ppm)
MW-20	2.5-5'	11/16/92	<10	<10	<50	<50	19	<50	2.8	NA	NA	NA	NA	NA	NA	NA
	5-7.5'	11/16/92	<10	<10	<50	<50	23	<50	3.8	NA	NA	NA	NA	NA	NA	NA
MW-21	5-7.5'	11/16/92	<10	<10	<50	<50	14	<50	0.9	NA	NA	NA	NA	NA	NA	NA
	12.5-15'	11/16/92	<10	<10	<50	2	40	15	2.8	NA	NA	NA	NA	NA	NA	NA
MW-22	10-12.5'	11/16/92	<10	<10	<50	8	61	24	4.5	NA	NA	NA	NA	NA	NA	NA
	12.5-15'	11/16/92	<10	<10	<50	<50	12	4	5.6	NA	NA	NA	NA	NA	NA	NA
MW-23	2.5-5'	11/16/92	<10	<10	<50	<50	25	<50	1.2	NA	NA	NA	NA	NA	NA	NA
	10-12.5'	11/16/92	18	<10	<50	7	69	23	4.8	NA	NA	NA	NA	NA	NA	NA
MW-24	MONITORING WELL WAS NEVER INSTALLED															
MW-25	12.5-15'	11/16/92	<50	<50	<50	<50	19	<50	2.8	NA	NA	NA	NA	NA	NA	NA
	18.5-20'	11/16/92	<50	<50	<50	4	47	14	3.7	NA	NA	NA	NA	NA	NA	NA
MW-26	5-7.5'	11/17/92	<50	<50	<50	<50	50	34	1.2	NA	NA	NA	NA	NA	NA	NA
	7.5-10'	11/17/92	<50	<50	<50	<50	56	25	1.4	NA	NA	NA	NA	NA	NA	NA
MW-27	2.5-5'	11/18/92	<50	<50	<50	<50	97	<50	5.9	NA	NA	NA	NA	NA	NA	NA
	5-7.5'	11/18/92	<50	<50	<50	<50	<50	<50	5.3	NA	NA	NA	NA	NA	NA	NA
MW-28	0-2.5'	11/17/92	<50	<50	<50	<50	17	<50	6.0	NA	NA	NA	NA	NA	NA	NA
	5-7.5'	11/17/92	<50	<50	<50	<50	23	<50	2.5	NA	NA	NA	NA	NA	NA	NA
MW-29	2.5-5'	11/17/92	<50	<50	<50	<50	9	<50	5.2	NA	NA	NA	NA	NA	NA	NA
	7.5-10'	11/17/92	<50	<50	<50	5	42	19	0.8	NA	NA	NA	NA	NA	NA	NA
MW-30	13-15'	11/17/92	44	55	<50	9	62	20	1.6	NA	NA	NA	NA	NA	NA	NA
	18-20'	11/17/92	116	27	9	8	67	<50	1.5	NA	NA	NA	NA	NA	NA	NA
MW-31	2.5-5'	11/18/92	NA	<50	<50	145	1,224	<50	4.5	NA	NA	NA	NA	NA	NA	NA
	7.5-10'	11/18/92	NA	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-32	2.5-5'	11/17/92	<50	<50	<50	<50	11	<50	6.6	3.4	69	<1.0	7	0.04	<0.12	<1.0
	13.5-15'	11/17/92	<50	<50	<50	10	42	25	2.3	NA	NA	NA	NA	NA	NA	NA
MW-33	13.5-15'	11/19/92	<50	<50	<50	<50	<50	<50	6.0	5.5	97	<1.0	14	0.04	<0.12	<1.0
	18.5-20'	11/19/92	<50	<50	180	<50	326	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-34	13.5-15'	11/19/92	<50	<50	<50	<50	<50	<50	3.2	NA	NA	NA	NA	NA	NA	NA
	18.5-20'	11/19/92	<50	<50	<50	<50	<50	<50	4.2	NA	NA	NA	NA	NA	NA	NA
MW-35	2.5-5'	11/18/92	<50	<50	<50	<50	24	11	0.8	NA	NA	NA	NA	NA	NA	NA
	5-7.5'	11/18/92	<50	<50	<50	<50	31	3	3.5	NA	NA	NA	NA	NA	NA	NA
MW-50	8.5-10	08/12/93	<50	<50	<50	<50	<50	<50	2.3	NA	NA	NA	NA	NA	NA	NA
	13.5-15	08/12/93	<50	<50	<50	<50	<50	<50	5.6	NA	NA	NA	NA	NA	NA	NA
MW-51	6-7.5	08/12/93	<50	<50	<50	<50	<50	<50	4.1	NA	NA	NA	NA	NA	NA	NA
	18.5-20	08/12/93	<50	<50	<50	<50	<50	<50	3.8	NA	NA	NA	NA	NA	NA	NA
MW-60	3-5'	01/28/97	NA	NA	<81	<81	<81	<81	NA	NA	NA	NA	NA	NA	NA	NA
	5-7'	01/28/97	NA	NA	<25	<25	<25	<50	NA	NA	NA	NA	NA	NA	NA	NA
MW-71	NO SAMPLES COLLECTED															
PZ-10	8.5-10	12/15/92	NA	NA	NA	NA	NA	NA	10	NA	NA	NA	NA	NA	NA	NA
PZ-12	NO SAMPLES COLLECTED															
NR720 Standards/TCLP Limit*			100	100	5.5	2,900	1,500	4,100	50	5	100	1	5	0.02	1	5
NR 746.06 Table 1 Values			--	--	8,500	4,600	38,000	42,000	--	--	--	--	--	--	--	--
NR 746.06 Table 2 Values			--	--	1,100	--	--	--	--	--	--	--	--	--	--	--

NOTES:

**Bold** indicates value exceeds its respective standard

GRO: Gasoline range organics

NA: Not available

DRO: Diesel range organics

\* A TCLP test typically involves a twenty-fold dilution of the sample with respect to the procedures utilized. Therefore, it is reasonable to assume that only sample concentrations greater than 20 times the TCLP limit are likely to exceed the regulated standard.

Samples collected for metals analysis were all obtained from 0-2.5 feet



**Table 2**  
**Site Investigation Soil Sample Laboratory Analytical Results**  
**(Samples collected by Shaw Environmental)**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Sample Location	Sample Depth	Sample Date	GRO (ppm)	DRO (ppm)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	Lead (ppm)	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Mercury (ppm)	Selenium (ppm)	Silver (ppm)
TB-30	7.5-10'	11/18/92	<10	<10	<50	<50	<50	<50	-	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	11/18/92	<10	<10	<50	<50	<50	<50	4.1	NA	NA	NA	NA	NA	NA	NA
TB-31	7.5-10'	11/19/92	<10	<10	<50	<50	<50	<50	2.7	NA	NA	NA	NA	NA	NA	NA
	10-12.5'	11/19/92	<10	<10	<50	<50	240	<50	4.3	NA	NA	NA	NA	NA	NA	NA
TB-32	8.5-10'	11/19/92	<10	<10	<50	<50	<50	<50	4.4	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	3.0	NA	NA	NA	NA	NA	NA	NA
TB-33	8.5-10'	11/19/92	<10	<10	139	<50	168	<50	3.0	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	3.6	NA	NA	NA	NA	NA	NA	NA
TB-34	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
	18.5-20'	11/19/92	<10	295	125	<50	270	<50	0.9	NA	NA	NA	NA	NA	NA	NA
TB-35	11-12.5'	11/19/92	<10	<10	<50	<50	<50	<50	2.2	2.7	110	<1.0	10	0.01	<0.12	<1.0
	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	4.0	NA	NA	NA	NA	NA	NA	NA
TB-36	2.5-5'	11/19/92	<10	<10	<50	<50	<50	<50	5.2	5.2	110	<1.0	14	0.04	<0.12	<1.0
	5-7.5'	11/19/92	<10	<10	279	224	1,037	793	11.6	NA	NA	NA	NA	NA	NA	NA
TB-37	11-12.5'	11/19/92	83	19	<50	<50	<50	<50	2.3	3.5	85	<1.0	11	0.04	<0.12	<1.0
	13.5-15'	11/19/92	<10	<10	<50	<50	327	<50	3.6	NA	NA	NA	NA	NA	NA	NA
TB-38	7.5-10'	11/19/92	<10	<10	<50	<50	474	<50	18.8	2.7	110	<1.0	7	0.02	<0.12	<1.0
	12.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	2.9	NA	NA	NA	NA	NA	NA	NA
TB-39	11-12.5'	11/19/92	<10	<10	<50	<50	<50	<50	1.7	3.9	95	<1.0	5	0.02	<0.12	<1.0
	12.5-15'	11/19/92	<10	<10	<50	158	456	619	2.5	NA	NA	NA	NA	NA	NA	NA
TB-40	5-7.5'	11/19/92	<10	528	<50	<50	<50	<50	1.2	4.4	87	<1.0	12	0.03	<0.12	<1.0
	12.5-15'	11/19/92	84	1,651	<50	<50	<50	<50	2.6	NA	NA	NA	NA	NA	NA	NA
TB-41	7.5-10'	11/19/92	511	3,715	<50	251	<50	<50	2.5	4.4	74	<1.0	10	0.03	<0.12	<1.0
	10-12.5'	11/19/92	879	5,805	<50	546	<50	611	2.6	NA	NA	NA	NA	NA	NA	NA
TB-42	6-7.5'	11/19/92	<10	88	<50	<50	<50	<50	NA	2.5	100	<1.0	5	<0.01	<0.12	<1.0
	8.5-10'	11/19/92	<10	<10	<50	<50	<50	<50	2.3	NA	NA	NA	NA	NA	NA	NA
TB-43	8.5-10'	11/19/92	<10	<10	115	<50	229	<50	2.2	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	2.8	NA	NA	NA	NA	NA	NA	NA
TB-44	6-7.5'	11/19/92	<10	<10	<50	<50	<50	<50	1.0	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	11/19/92	<10	<10	<50	<50	<50	<50	2.9	NA	NA	NA	NA	NA	NA	NA
TB-45	6-7.5'	11/19/92	<10	37	<50	<50	<50	<50	6.0	NA	NA	NA	NA	NA	NA	NA
	8.5-10'	11/19/92	<10	<10	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA	NA
NR720 Standards/TCLP Limit*			100	100	5.5	2,900	1,500	4,100	50	5	100	1	5	0.02	1	5
NR 746.06 Table 1 Values			--	--	8,500	4,600	38,000	42,000	--	--	--	--	--	--	--	--
NR 746.06 Table 2 Values			--	--	1,100	--	--	--	--	--	--	--	--	--	--	--

**NOTES:**

**Bold** indicates value exceeds its respective standard

GRO: Gasoline range organics

NA: Not available

DRO: Diesel range organics

\* A TCLP test typically involves a twenty-fold dilution of the sample with respect to the procedures utilized. Therefore, it is reasonable to assume that only sample concentrations greater than 20 times the TCLP limit are likely to exceed the regulated standard. Samples collected for metals analysis were all obtained from 0-2.5 feet

**Table 1 (Continued)**  
**Site Investigation Soil Sample Laboratory Analytical Results**  
**(Samples collected by EEA and KEE)**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Sample Location	Sample Depth	Sample Date	GRO (ppm)	DRO (ppm)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	TCE (ppb)	Lead (ppm)	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Mercury (ppm)	Selenium (ppm)	Silver (ppm)	
MW1	7.5-10'	7/22/91	NA	NA	<1.2	<1.2	<1.2	<1.2	<1.2	2.9	14.5	121	0.091	17.1	<0.14	0.025	0.306	
MW2	7.5-10'	7/22/91	1,060	NA	<1,100	91,000	170,000	240,000	<1,100	12,400	NA	NA	NA	NA	NA	NA	NA	
MW3	3.5-5'	7/23/91	NA	NA	NA	NA	NA	NA	NA	19.6	10.3	155	0.426	23.6	0.215	0.131	0.17	
	7.5-10'	7/23/91	<4.5	16	<1.1	<1.1	2.3	2.2	<1.1	NA	NA	NA	NA	NA	NA	NA	NA	
MW4	3.5-5'	7/25/91	NA	NA	<1.1	<1.1	2.3	<1.1	11	3.0	4.01	94.6	<0.057	16.9	<0.123	0.023	1.78	
MW5	5-7.5'	7/23/91	NA	NA	<1.1	<1.1	3.4	2.2	6.9	2.7	3.86	109	0.058	13.4	<0.120	0.017	0.117	
MW6	5-7.5'	7/24/91	NA	NA	<1.2	<1.2	<1.2	<1.2	<1.1	66.7	9.43	150	1.76	29.9	1.46	0.146	1.72	
MW7	NA	7/24/91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
MW8	1-2.5'	8/22/91	NA	NA	NA	NA	NA	NA	NA	9.5	1.19	89.3	<0.118	32	0.069	0.065	1.31	
	7.5-10'	8/22/91	NA	765	16	<11	<11	390	<11	NA	NA	NA	NA	NA	NA	NA	NA	
MW9	1-2.5'	8/22/91	NA	NA	NA	NA	NA	NA	NA	2.3	0.4	62.6	<0.113	19.2	0.064	0.022	2.26	
	13.5-15'	8/22/91	<5.2	<10.4	<10	<10	20	<20	<10	NA	NA	NA	NA	NA	NA	NA	NA	
MW10	1-3'	3/9/92	<6.3	<6.3	<13	<13	<13	<13	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	3.5-5.5'	3/9/92	NA	NA	NA	NA	NA	NA	NA	7.8	NA	NA	NA	NA	NA	NA	NA	
MW11	3.5-5.5'	3/9/92	<5.8	<5.8	<12	<12	<12	<12	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	6-8'	3/9/92	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA	
MW12	6-8'	3/10/92	<5.7	<5.7	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	8.5-10'	3/10/92	NA	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	NA	NA	NA	
MW13	6-8'	3/10/92	<5.7	<5.7	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	8.5-10'	3/10/92	NA	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	NA	NA	NA	
MW14	16-17.5'	3/11/92	12	88	<14	<14	<14	<14	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	13.5-15'	3/11/92	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	NA	NA	NA	NA	
MW15	8.5-10.1'	3/12/92	<5.6	<5.6	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	11-13'	3/12/92	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	NA	
MW16	11-13'	3/12/92	<5.6	<5.6	<11	<11	<11	<11	NA	2.1	NA	NA	NA	NA	NA	NA	NA	
P1	8.5-10.1'	3/11/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
P2	8.5-10.1'	3/11/92	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
NR720 Standards/TCLP Limit*			100	100	5.5	2,900	1,500	4,100	--	50	5	100	1	5	0.02	1	5	
NR 746.06 Table 1 Values			--	--	8,500	4,600	38,000	42,000	--	--	--	--	--	--	--	--	--	--
NR 746.06 Table 2 Values			--	--	1,100	--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:

Bold indicates value exceeds NR 720 standard

NA: Not available

GRO: Gasoline range organics

DRO: Diesel range organics

\* A TCLP test typically involves a twenty-fold dilution of the sample with respect to the procedures utilized. Therefore, it is reasonable to assume that only sample concentrations greater than 20 times the TCLP limit are likely to exceed the regulated standard.

**Table 1**  
**Site Investigation Soil Sample Laboratory Analytical Results**  
**(Samples collected by EEA and KEE)**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Sample Location	Sample Depth	Sample Date	GRO (ppm)	DRO (ppm)	Benzene (ppb)	Ethylbenzene (ppb)	Toluene (ppb)	Xylenes (ppb)	TCE (ppb)	Lead (ppm)	Arsenic (ppm)	Barium (ppm)	Cadmium (ppm)	Chromium (ppm)	Mercury (ppm)	Selenium (ppm)	Silver (ppm)
B1	1-3.5'	7/30/91	NA	NA	<1.3	1.4	6.8	5.6	<1.3	NA	NA	NA	NA	NA	NA	NA	NA
	5-7.5'	7/30/91	NA	NA	NA	NA	NA	NA	NA	7.4	12.3	113	<0.124	33.4	<0.114	0.013	0.805
B2	3.5-5'	7/29/91	NA	98	<1.0	<1.0	1.2	<3.0	<1.0	NA	NA	NA	NA	NA	NA	NA	NA
B3	7.5-10'	7/29/91	<b>261</b>	NA	<7.0	<7.0	<7.0	<21	<7.0	NA	NA	NA	NA	NA	NA	NA	NA
B4	1-3.5'	7/29/91	NA	NA	NA	NA	NA	NA	NA	1.3	13.1	157	<0.130	34.5	<0.117	0.012	1.24
	7.5-10'	7/29/91	NA	NA	<7.0	<7.0	<7.0	<28	<7.0	NA	NA	NA	NA	NA	NA	NA	NA
B5	BORING WAS NEVER INSTALLED																
B6	5-7.5'	7/29/91	NA	NA	NA	NA	NA	NA	NA	1.3	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	7/29/91	NA	NA	<7.0	<7.0	<7.0	<28	<7.0	-	NA	NA	NA	NA	NA	NA	NA
B7	5-7.5'	7/26/91	NA	NA	NA	NA	NA	NA	NA	504	13.7	3.02	467	37.3	504	40.6	2.08
B8	BORING WAS NEVER INSTALLED																
B9	3.5-5'	7/29/91	NA	NA	NA	NA	NA	NA	NA	7.9	10.3	175	<0.131	33.4	<0.136	0.026	1.44
	17.5-20'	7/29/91	NA	NA	<130	390	140	740	<130	NA	NA	NA	NA	NA	NA	NA	NA
B10	5-7.5'	7/29/91	NA	NA	<7.0	<7.0	<7.0	<28	<7.0	<1.16	7	120	<0.116	18.7	<0.106	0.018	2.1
B11	1-3.5'	7/29/91	NA	NA	NA	NA	NA	NA	NA	624	8.8	1,170	4.7	30.5	0.122	0.398	1.52
	5-7.5'	7/29/91	NA	NA	210	160	<7.0	1,170	<7.0	NA	NA	NA	NA	NA	NA	NA	NA
B12	13.5-15'	7/26/91	NA	NA	<7.0	<7.0	<7.0	<28	<7.0	1.8	5.38	113	<0.117	14.6	<0.116	0.018	3.51
B13	BORING WAS NEVER INSTALLED																
B14	3.5-5'	7/26/91	NA	NA	NA	NA	NA	NA	NA	17.6	5.1	45.3	<0.114	19.9	<0.108	0.102	0.793
	5-7.5'	7/26/91	NA	NA	<7.0	<7.0	<7.0	<28	<7.0	NA	NA	NA	NA	NA	NA	NA	NA
B15	5-7.5'	8/21/91	NA	NA	<1.0	<13	<13	<26	<130	NA	NA	NA	NA	NA	NA	NA	NA
B16	13.5-15'	8/21/91	NA	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
B17	1-3.5'	8/22/91	NA	NA	NA	NA	NA	NA	NA	7.8	1.13	133	<0.104	28.2	0.068	0.052	1.1
	11-13.5'	8/22/91	NA	<11.2	<11	<11	20	<22	<11	NA	NA	NA	NA	NA	NA	NA	NA
B18	3.5-5'	8/23/91	NA	NA	NA	NA	NA	NA	NA	3.1	0.679	93	<0.124	22.9	<0.044	0.037	0.803
	11-13.5'	8/23/91	NA	<11.1	<11	<11	19	<22	<11	NA	NA	NA	NA	NA	NA	NA	NA
B19	8.5-10.'	3/12/92	<6.4	<6.4	<13	<13	<13	<26	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11-12.5'	3/12/92	NA	NA	NA	NA	NA	NA	NA	4.6	NA	NA	NA	NA	NA	NA	NA
B20	11-12.5'	3/12/92	<5.9	<5.9	<12	<12	<12	<12	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13.5-14'	3/12/92	NA	NA	NA	NA	NA	NA	NA	3.2	NA	NA	NA	NA	NA	NA	NA
B21	11-12.5'	3/12/92	<5.7	<5.7	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	3/12/92	NA	NA	NA	NA	NA	NA	NA	2.5	NA	NA	NA	NA	NA	NA	NA
B22	11-12.5'	3/12/92	<5.3	<5.3	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	3/12/92	NA	NA	NA	NA	NA	NA	NA	5.2	NA	NA	NA	NA	NA	NA	NA
B23	13.5-15'	3/12/92	<5.6	<5.6	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA
	16-17.5'	3/12/92	NA	NA	NA	NA	NA	NA	NA	3.1	NA	NA	NA	NA	NA	NA	NA
B24	8.5-10.'	3/13/92	<5.7	<5.7	<11	<11	<11	<11	NA	2.1	NA	NA	NA	NA	NA	NA	NA
	11-12.5'	3/13/92	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	NA	NA	NA	NA
B25	11-12.5'	3/13/92	<5.6	<5.6	<11	<11	<11	<11	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13.5-15'	3/13/92	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA
NR720 Standards/TCLP Limit*			100	100	5.5	2,900	1,500	4,100	-	50	5	100	1	5	0.02	1	5
NR 746.06 Table 1 Values			--	--	8,500	4,600	38,000	42,000	--	--	--	--	--	--	--	--	--
NR 746.06 Table 2 Values			--	--	1,100	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:  
**Bold** indicates value exceeds NR 720 standard  
 NA: Not available  
 GRO: Gasoline range organics  
 DRO: Diesel range organics

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Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 RWD-2  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<i>0.4</i>	<0.38	1.3	<1.1	<0.14	<0.65	<0.35	<0.63	<0.63	8.9	2.5	2.2	<0.18	<1.2	0.39	<0.20	0.29	<0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<i>0.28</i>	<0.25	0.15	<0.25	<0.25	<0.20	0.19	1.9	1.9	1.9	0.61	2.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	0.46	<0.38	<0.39	<1.1	<0.14	0.41	0.51	1.5	1.5	4.4	2.1	8.6	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
08/02/99	0.34	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.37	1.6	1.6	<0.79	4.9	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
11/17/99	<i>0.45</i>	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	<i>0.62</i>	2.8	1.4	6.2	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.50	<0.5	<5.0	<5.0	1.24	<0.140	<5.0	<0.60	<0.50	<5.0	<5.0	<5.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	2.9	4.5	2.9	3.9	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	NA	
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	1.8	8.6	8.1	19	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	NA	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<i>0.64</i>	<0.83	<0.89	0.41	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<i>0.91</i>	<0.83	<0.89	0.73	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<0.48	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<i>0.51</i>	1.7	1.1	1.3	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

**Table 8**  
**Postremedial Groundwater Sample Laboratory Analytical Results**  
**RWD-1**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.31	<0.38	<0.71	<1.1	<0.14	<0.65	<0.35	<0.63	9.8	2.0	0.55	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	5.6	0.75	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	12	2.1	0.6	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
08/02/99	0.62	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	1.6	1.6	<0.79	3.2	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
11/17/99	0.27	<0.32	<0.27	<0.67	<0.32	0.56	<0.35	<0.43	3.3	1.3	<0.79	0.71	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.00	<0.500	2.1	<5.0	<5.0	<0.170	<0.140	<5.0	<5.00	<0.500	<5.00	<5.00	<5.00	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	4.48	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.53	<0.68	<0.25	4.0	<1.0	0.32	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	NA	
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	16	5.6	2.7	6.1	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.29	NA	
05/14/03	0.48	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	0.98	<0.83	<0.89	0.29	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	0.82	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	1.2	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	11	1.7	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:  
All results are reported in ppb  
**Bold** indicates value equals or exceeds the NR 140 ES  
*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
PAL: Preventive action limit  
PCE: Tetrachloroethene

TCE: Trichloroethene  
DCE: Dichloroethene  
NS: Not sampled

MTBE: Methyl-t-butyl-ether  
TMB: Trimethylbenzenes  
NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 RWC-1  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.62	<0.76	1.4	<2.2	<0.28	<1.30	<0.70	<1.3	<1.3	37	37	24	<0.36	<2.4	<0.76	<0.40	<0.56	<0.44	<0.70	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	0.6	<0.50	<0.20	<0.50	<0.50	0.28	1.4	<0.50	19	18	13	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	
04/21/98	0.5	<0.25	0.13	<0.25	<0.25	<0.20	0.25	<0.25	67	96	48	120	<0.25	<0.25	<0.25	<0.25	<0.25	0.65	1.1	NA	
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<1.6	<1.9	<2.0	<5.5	<0.70	<3.2	4.2	<3.2	13	14	9.9	140	<0.90	<6.0	<1.9	<1.0	<1.4	<1.1	<1.8	NA	
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	12	47	49	100	<0.35	<0.54	<0.61	<0.30	<0.30	0.54	0.88	NA	
11/17/99	0.6	<0.64	<0.54	<1.34	<0.64	<0.98	<0.70	<0.86	18	20	30	340	<0.70	<1.1	<1.2	<0.60	<0.60	0.94	1.6	NA	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	NS	NS	0.84	<5.0	<5.0	12.6	<0.140	<5.0	NS	NS	NS	NS	NS	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.50	2.88	10.9	16.6	158	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<1.3	<0.6	<1.1	<3.7	<2.7	<2.5	<3.4	<1.3	6.2	14	17	47	<1.6	<1.2	<1.2	<1.1	<1.5	<1.3	<1.5	NA	
06/13/02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA	
05/14/03	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	NA	
06/16/04	<0.41	0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	53	79	61	22	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	1.6	<0.45	<0.48	1.2	3.5	16	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	1.3	<0.45	0.66	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 RWB-3  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<b>8.4</b>	3.1	7.8	14	<0.14	7.13	1.4	<0.63	4.8	1.3	0.52	<0.46	0.22	<1.2	<0.38	<0.20	0.53	<0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<b>2,500</b>	<b>600</b>	<b>1,100</b>	<b>2,000</b>	<2.5	<b>545</b>	<b>81</b>	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA
04/21/98	<b>420</b>	<b>150</b>	<b>210</b>	<b>550</b>	<1.2	<b>230</b>	<b>41</b>	<1.2	<b>13</b>	<b>1.8</b>	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	NA
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<b>1,700</b>	<b>980</b>	<b>1,200</b>	<b>4,000</b>	<3.5	<b>1,110</b>	<b>180</b>	<16	<12	<5.8	<9.8	<12	<4.5	<30	<9.5	<5.0	<7.0	<5.5	<8.8	NA	
08/02/99	<b>1,700</b>	<b>540</b>	<b>500</b>	<b>1,450</b>	<3.2	<b>525</b>	<b>92</b>	<4.3	<b>7.0</b>	<2.8	<7.9	<2.0	<3.5	<5.4	<6.1	<3.0	<3.0	<3.4	<3.0	NA	
11/17/99	<b>1,100</b>	<b>390</b>	<b>290</b>	<b>980</b>	<3.2	<b>279</b>	<b>62</b>	<4.3	<3.7	<2.8	<7.9	<2.0	<3.5	<5.4	<6.1	<3.0	<3.0	<3.4	<3.0	NA	
05/24/00	<b>495</b>	<50	<50	<50	<5.0	<100	<80.0	<5.0	<5.0	<50	<50	<1.70	<1.40	<50	<6.0	<5.0	<50.0	<50.0	<50.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<b>2,380</b>	<b>855</b>	<b>495</b>	<b>2,440</b>	<0.101	<b>811.4</b>	<b>94.1</b>	<0.5	<0.50	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<b>2,000</b>	<b>810</b>	<b>650</b>	<b>3,180</b>	<27	<b>1,600</b>	<b>160</b>	<b>13</b>	<18	<50	<12	<12	<16	<12	<b>37</b>	<11	<1.5	<13	<15	NA	
06/13/02	<b>2,400</b>	<b>550</b>	<b>330</b>	<b>1,740</b>	<25	<b>610</b>	<b>73</b>	<25	<37	<27	<30	<6	<28	<35	<35	<28	<29	<13	<13	NA	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>3.8</b>	<0.83	<0.89	<0.18	0.48	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	<b>370</b>	<b>380</b>	<b>150</b>	<b>940</b>	<6.1	<b>815</b>	<b>100</b>	<4.5	<4.8	<8.3	<8.9	<1.8	<3.7	<9.7	<2.4	<9.7	<0.90	<0.87	<0.95	NA	
05/24/05	<b>750</b>	<b>680</b>	<b>150</b>	<b>1,660</b>	<6.1	<b>838</b>	<b>140</b>	<4.5	<4.8	<8.3	<8.9	<1.8	<3.7	<9.7	<2.4	<9.7	<0.90	<0.87	<0.95	NA	
12/20/06	<b>330</b>	<b>56</b>	<b>72</b>	<b>231</b>	<3.0	<b>205</b>	<b>30</b>	<2.2	<2.4	<4.1	<4.4	<0.90	<1.8	<4.8	<1.2	<2.8	<4.5	<4.4	<4.8	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	NA	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

**Table 8**  
**Postremedial Groundwater Sample Laboratory Analytical Results**  
**RWA-3**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.62	<0.76	<0.78	<2.2	<0.28	<1.30	<0.70	<1.3	<1.3	4.8	1.1	<0.92	<0.36	<2.4	<0.76	<0.40	<0.56	<0.44	<0.70	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	0.21	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	<b>190</b>	<i>10</i>	4.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	
04/21/98	5.3	<0.50	<0.20	<0.50	<0.50	<0.40	<0.20	<0.50	<b>170</b>	<i>12</i>	<i>11</i>	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	NA	
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<0.10	<0.38	<0.39	<1.1	<0.14	<0.65	1.8	<0.63	<b>54</b>	<i>20</i>	<i>21</i>	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
08/02/99	<b>65</b>	0.75	0.47	<0.67	<0.32	<0.49	<0.35	<b>59</b>	<b>59</b>	<i>12</i>	<i>21</i>	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
11/17/99	4.8	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<b>41</b>	<b>41</b>	<i>19</i>	<i>23</i>	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<3.4	<3.0	NA	
05/24/00	<b>24.1</b>	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	<b>31.1</b>	<i>15.4</i>	<i>23.7</i>	<b>3.01</b>	<0.14	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	<b>10</b>	<i>18.2</i>	<i>30.8</i>	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	2.7	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	<b>21</b>	5.8	9.1	<b>0.76</b>	<0.32	<0.24	<i>0.81</i>	<0.21	<0.29	<0.25	<0.29	NA	
06/13/02	<b>6.2</b>	<2.5	<3.2	<7.1	<2.5	<5.7	<7.0	<2.5	<b>22</b>	4.7	8.2	<0.6	<2.8	<3.5	<3.5	<2.8	<2.9	<1.3	<1.3	NA	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>6.7</b>	6.4	8.5	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	1.6	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>3.9</b>	<0.83	0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	1.7	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>1.2</b>	4.5	6.6	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<b>2.0</b>	4.3	8.1	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

**Notes:**

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available



Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 RWA-2  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	0.4	<0.38	0.63	<1.1	<0.14	<0.65	<0.35	<0.63	65	1.7	0.82	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<b>500</b>	<b>380</b>	<b>1,100</b>	<b>1,000</b>	<2.5	314	130	<2.5	9.3	55	24	8.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	NA	
04/21/98	<b>590</b>	<b>570</b>	<b>1,700</b>	<b>1,600</b>	<5.0	422	140	<5.0	67	28	20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	NA	
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<b>1,100</b>	<b>690</b>	<b>1,600</b>	<b>1,800</b>	<3.5	438	120	<16	<12	18	16	<12	<4.5	<30	<9.5	<5.0	<7.0	<5.5	<8.8	NA	
08/02/99	<b>920</b>	<b>900</b>	<b>2,000</b>	<b>2,160</b>	<8.0	730	160	<11	23	<7.0	<20	<5.0	<8.8	<14	<15	<7.5	<7.5	<8.5	7.5	NA	
11/17/99	<b>1,100</b>	<b>960</b>	<b>1,500</b>	<b>2,030</b>	<3.2	613	160	16	16	9.6	12	<2.0	<3.5	<5.4	<0.32	<3.0	<3.0	<3.4	<0.30	NA	
05/24/00	<b>476</b>	<b>161</b>	<b>611</b>	<b>484</b>	<5.0	83.5	<80	<5.0	6.77	<50	<50	3.93	<1.40	<50	<6.0	<5.0	<50.0	<50.0	<50.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<b>1,200</b>	45.9	912	<b>2,510</b>	<0.101	919	186	<0.5	3.91	9.01	5.43	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<b>410</b>	<b>350</b>	<b>220</b>	<b>345</b>	<27	240	<34	<13	<13	<50	<12	<12	<16	<12	<12	<11	<15	<13	<15	NA	
06/13/02	<b>440</b>	<b>280</b>	<b>520</b>	<b>1,280</b>	<10	420	67	<10	<15	<11	<12	<2.4	<11	<14	<14	<11	<11	<5.2	<5.2	NA	
05/14/03	<b>200</b>	<b>330</b>	98	405	<1.2	210	30	<0.90	<0.96	<1.7	<1.8	<0.36	<0.74	<1.9	<0.48	<1.1	<1.8	<1.7	<1.9	NA	
06/16/04	<b>270</b>	<b>620</b>	<b>220</b>	<b>670</b>	<3.0	328	71	<2.2	<2.4	<4.1	<4.4	<0.90	<1.8	<4.8	<1.2	<2.8	<4.5	<4.4	<4.8	NA	
05/24/05	<b>180</b>	<b>700</b>	<b>520</b>	<b>1,530</b>	<6.1	456	110	<4.5	<4.8	<8.3	<8.9	<1.8	<3.7	<9.7	<2.4	<5.6	<9.0	<8.7	<9.5	NA	
12/20/06	<b>140</b>	<b>610</b>	<b>320</b>	<b>1,140</b>	<3.0	308	170	<2.2	<2.4	<4.1	<4.4	<0.90	<1.8	<4.8	<1.2	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
 PAL: Preventive action limit  
 PCE: Tetrachloroethene

TCE: Trichloroethene  
 DCE: Dichloroethene  
 NS: Not sampled

MTBE: Methyl-t-butyl-ether  
 TMB: Trimethylbenzenes  
 NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 RWA-1  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	<b>15</b>	<0.23	<0.39	<b>0.63</b>	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<0.10	<0.25	<0.10	<0.25	<0.25	0.13	0.2	<0.25	4.2	0.58	<0.25	<b>0.28</b>	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	2.2	2.2	0.41	<0.39	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.37	<0.37	<0.28	<0.79	<b>0.24</b>	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
11/17/99	<0.27	<0.32	<0.27	<0.67	NA	NA	NA	NA	2.0	<0.28	<0.79	<b>0.23</b>	<0.35	<0.54	NA	NA	NA	NA	NA	NA	
05/24/00	<0.5	<5.0	<5.0	<5.0	0.654	<10	<8.0	<0.50	<0.5	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	<i>0.98</i>	<5.0	<5.0	<b>0.65</b>	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	<i>0.88</i>	<1.0	<0.23	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	NA	
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	<i>1.3</i>	<0.53	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	NA	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<0.48	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<i>1.4</i>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<i>0.91</i>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<i>1.5</i>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-64  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	90	7.6	0.91	<0.46	<0.18	<0.38	<1.2	<0.20	0.29	0.22	<0.35	NA	
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	0.11	<0.25	0.3	<0.25	<0.25	<0.20	<0.10	<0.25	91	4.7	0.44	1.1	<0.25	<0.25	<0.25	<0.25	0.54	<0.25	<0.25	NA	
04/21/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	35	0.97	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	39	1.2	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA	
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	41	1.7	<0.39	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	NA	
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	24	0.4	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA	
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	71	2.6	<0.79	0.48	<0.35	<0.54	<0.61	<0.30	0.32	<0.34	<0.30	NA	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	7.18	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	NA	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	56.3	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	NA	
05/23/01	<1.3	<0.6	<1.1	<3.7	<2.7	<2.5	<3.4	<1.3	19	<5	<1.2	<1.2	<1.6	<1.2	<1.2	<1.1	<1.5	<1.3	<1.5	NA	
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	37	<0.53	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	NA	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	31	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	43	1.4	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	49	0.99	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	38	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	NA	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-62  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	0.59	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	3.9	0.61	<0.39	<0.46	0.24	<0.38	<0.38	<0.20	0.48	<0.22	<0.35		879.75
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	0.15	<0.25	0.29	<0.25	<0.25	<0.20	<0.10	<0.25	3.6	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	878.41
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	<0.25	<0.25	<0.10	<0.25	<0.25	<0.10	<0.10	<0.25	15	1.6	0.44	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	879.75
11/10/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	13	2.6	1.0	0.59	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30		881.48
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	3.1	<0.28	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30		878.63
05/24/00	<0.5	<5.0	<5.0	<5.0	1.3	<10.0	<8.0	<0.5	1.04	<5.0	<5.0	1.04	<0.140	<5.0	<0.6	<05.0	<5.0	<5.0	<5.0		880.75
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	3.3	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0		878.61
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	2.4	1.4	0.63	2.8	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29		880.93
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	7.8	1.3	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26		NA
05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	1.1	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95		885.66
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	1.0	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95		879.58
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<0.48	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95		880.14
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15		-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75		-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-61  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	3.7	0.45	<0.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	879.70
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<0.10	<0.25	0.23	<0.25	<0.25	<0.20	<0.10	<0.25	15	0.44	<0.25	<0.25	0.41	<0.25	<0.25	<0.25	NS	NS	NS	NS	878.49
04/21/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.10	<0.10	<0.25	28	2.5	1.4	<0.25	0.45	<0.25	<0.25	<0.25	1.5	<0.25	<0.25	<0.25	880.15
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	14	1.5	0.88	<0.25	0.23	<0.25	<0.25	<0.25	2	<0.25	<0.25	<0.25	879.58
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	1.1	<0.63	12	<0.20	<0.39	<0.46	0.37	<1.2	<0.38	<0.20	1.4	<0.22	<0.35	<0.35	878.61
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	21	21	1.4	1.4	<0.20	<0.35	<0.54	<0.61	<0.30	21	<0.34	<0.30	<0.30	881.26
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	18	0.61	<0.79	<0.20	0.42	<0.54	<0.61	<0.30	1.8	<0.34	<0.30	<0.30	878.67
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.00	1.67	1.67	<5.0	<5.0	<0.170	<0.140	<5.0	<0.600	<0.500	<5.00	<5.00	<5.00	<5.00	880.63
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	16.5	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	<5.0	878.70
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	19	1.2	1.3	<0.23	0.34	<0.24	<0.24	<0.21	2	<0.25	<0.29	<0.29	880.78
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	20	1.0	0.66	<0.12	<0.56	<0.69	<0.69	<0.55	1.5	<0.26	<0.26	<0.26	880.25
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	9.7	<0.83	<0.89	<0.18	0.4	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	879.37
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	9.8	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	885.03
05/24/05	<0.41	<0.54	<0.67	<1.8	<0.61	<1.8	<0.74	<0.45	3.9	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	885.14
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	7.6	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	879.93
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
 PAL: Preventive action limit  
 PCE: Tetrachloroethene

TCE: Trichloroethene  
 DCE: Dichloroethene  
 NS: Not sampled

MTBE: Methyl-t-butyl-ether  
 TMB: Trimethylbenzenes  
 NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-60  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.10	<0.10	<0.25	<i>0.88</i>	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	NA
11/10/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.29	<0.35	<0.43	1.3	<0.28	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	882.84
11/17/99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.50	<0.5	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	877.16
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	<0.36	<1.0	<0.23	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	884.38
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	<0.73	<0.53	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	NA
05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/24/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	1.6	1.7	<0.89	0.7	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	881.95
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

**Table 8**  
**Postremedial Groundwater Sample Laboratory Analytical Results**  
**PZ-12**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	24	24	0.7	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	879.49
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	17	17	0.75	<0.39	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	<0.25	878.58
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	38	1.4	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	<0.30	881.24
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	44	1.7	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	<0.30	878.61
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	2.82	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	<5.0	880.68
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	44	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	<5.0	878.71
05/23/01	<1.3	<0.6	<1.1	<3.7	<2.7	<2.4	<3.4	<1.3	33	<5	<1.2	<1.2	<1.6	<1.2	<1.2	<1.1	<1.5	<1.3	<1.5	<1.5	880.84
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	40	<0.53	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	<0.26	882.23
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	46	1.5	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	879.38
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	43	1.5	1.0	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	885.05
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	41	1.4	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	879.60
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	15	1.1	1.8	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	<0.95	880.01
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

**Notes:**

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 PZ-10 (Deep)  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
04/21/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	1.0	0.66	2.8	4.1	<0.14	1.1	0.41	<0.63	4.8	<0.23	<0.39	<0.46	<0.18	<1.2	<0.38	<2.20	<0.28	<0.22	<0.35	875.44	
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	3.7	0.5	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	878.86	
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	23	1.6	<0.79	0.33	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	866.90	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	7.26	7.26	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	877.70	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	6.24	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	875.17	
05/23/01	<0.25	<0.12	<0.22	<0.77	<0.53	<0.50	<0.68	<0.25	4.4	<1.0	<0.23	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	877.86	
06/13/02	<2.2	<2.5	<3.2	<7.1	<2.5	<5.7	<7	<2.5	31	<2.7	<3	<0.6	<2.8	<3.5	<3.5	<2.8	<2.9	<1.3	<1.3	876.61	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	5.3	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	875.62	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	9.2	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	882.31	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	2.9	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	876.56	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	2.7	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	876.98	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb  
**Bold** indicates value equals or exceeds the NR 140 ES  
*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
 PAL: Preventive action limit  
 PCE: Tetrachloroethene

TCE: Trichloroethene  
 DCE: Dichloroethene  
 NS: Not sampled

MTBE: Methyl-t-butyl-ether  
 TMB: Trimethylbenzenes  
 NA: Not analyzed/Not available



Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 PZ-10 (Shallow)  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	100	8.5	1.2	<0.50	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	865.33
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	65	6.3	0.88	<0.46	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	867.40
07/24/97	<0.31	<0.38	<0.39	<1.1	NA	NA	NA	NA	34	3.8	0.49	<0.46	<0.18	<0.38	NA	NA	NA	NA	NA	867.45
12/30/97	<0.10	<0.25	1.6	<0.25	<0.25	<0.10	<0.10	<0.25	14	0.92	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	864.44
04/21/98	<0.10	<0.25	0.59	1.7	<0.25	1.84	1.5	<0.25	70	5.0	0.82	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	869.43
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	68	68	4.4	0.6	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	866.65
11/10/98	0.88	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	3.2	<0.23	<0.39	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	877.05
08/02/99	0.7	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	12	3.3	3.1	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	884.36
11/17/99	11	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	6.4	0.51	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	868.51
05/24/00	29.2	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	0.688	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	NA	NA	870.56
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	15.4	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.50	6.35	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	868.55
05/23/01	0.84	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	19	3.5	1.4	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	870.80
06/13/02	15	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	18	2.3	0.71	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	870.92
05/14/03	110	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	7.4	1.5	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	869.28
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	2.0	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	875.50
05/24/05	400	<1.4	<1.7	<6.7	<1.5	<5.5	<1.8	<1.1	2.0	<2.1	<2.2	<0.45	<0.92	<2.4	<0.60	<1.4	<2.2	<2.2	<2.4	869.53
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<0.48	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	871.90
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:  
 All results are reported in ppb  
**Bold** indicates value equals or exceeds the NR 140 ES  
*italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
 PAL: Preventive action limit  
 PCE: Tetrachloroethene

TCE: Trichloroethene  
 DCE: Dichloroethene  
 NS: Not sampled

MTBE: Methyl-t-butyl-ether  
 TMB: Trimethylbenzenes  
 NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 PZ-1  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)	
10/28/96	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	<b>58</b>	4.6	3.2	<b>2.9</b>	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	879.84	
07/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	<b>44</b>	4.1	37	<b>4.0</b>	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	880.23	
12/30/97	0.29	<0.25	0.2	<0.25	<0.25	0.22	<0.10	<0.25	<b>54</b>	4.9	3.5	<b>2.7</b>	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	878.46	
04/21/98	<0.10	<0.25	0.34	<0.25	<0.25	<0.20	<0.10	<0.25	<b>92</b>	2.4	1.3	<b>0.97</b>	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	882.75	
07/23/98	<0.20	<0.50	<0.20	0.78	<0.50	<0.40	0.7	<0.50	<b>150</b>	2.8	1.7	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	880.65	
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	<b>27</b>	2.7	2.6	<b>2.6</b>	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	878.77	
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<b>86</b>	<b>86</b>	3.8	2.1	<b>1.1</b>	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	883.3	
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<b>54</b>	<b>54</b>	2.5	2.9	<b>1.5</b>	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	880.09	
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	<b>70.7</b>	<5.0	<5.0	<b>3.03</b>	<0.14	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	882.21	
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	<b>75.4</b>	<5.0	<5.0	<b>1.76</b>	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	880.17	
05/23/01	<1.3	<0.6	<1.1	<3.7	<2.7	<2.4	<3.4	<1.3	<b>46</b>	<5	1.5	<1.2	<1.6	<1.2	<1.2	<1.1	<1.5	<1.3	<1.5	882.02	
06/13/02	<4.3	<4.9	<6.3	<14.5	<4.9	<11.4	<14	<4.9	<b>100</b>	<5.3	<5.9	<1.2	<5.6	<6.9	<6.9	<5.5	<5.7	<2.6	<2.6	881.25	
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>27</b>	2.3	1.8	<b>0.57</b>	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	880.90	
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>40</b>	1.3	0.98	<b>0.27</b>	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	887.70	
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>39</b>	1.6	<0.89	<b>0.51</b>	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	881.70	
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<b>35</b>	1.1	<0.89	<b>0.19</b>	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	882.14	
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-	
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-	

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-33  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	<1.0	2.6	15	18	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	880.51
03/24/97	0.38	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	1.7	1.7	19	12	29	<0.18	<0.38	<0.38	<0.20	<0.11	<0.22	<0.35	881.86
07/24/06	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	<0.63	1.6	1.4	8.0	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	881.86
12/30/97	0.55	<0.25	0.2	<0.25	<0.25	<0.20	<0.10	1.2	1.2	13	6.8	15	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	882.33
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	881.08
07/23/98	0.55	2.0	6.3	12	<0.25	6.8	3.0	<0.25	0.51	6.7	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	879.77
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.37	<0.37	0.57	<0.79	4.0	<0.35	<0.54	<0.61	<0.30	<0.30	>0.34	<0.30	NA
11/17/99	0.32	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	<0.37	6.3	4.0	17	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	881.42
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	<0.5	<5.0	<5.0	5.05	<0.140	<5.0	<0.6	<0.5	<0.5	<5.0	<5.0	878.67
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	880.85
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	<0.50	<5.0	<5.0	1.66	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	NS	NA
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	<0.36	2.0	2.1	21	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	877.86
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	<0.73	2.3	2.0	16	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	881.13
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<0.48	<0.83	<0.89	1.5	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	880.25
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	4.2	3.6	1.6	1.9	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.47
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<0.48	<0.83	<0.89	4.9	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	885.68
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<0.48	<0.83	<0.89	4.3	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.69
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-32  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	NA	<1.0	NA	3.9	<1.0	NA	0.6	NA	NA	NA	NA	NA	NA	NA	NA
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	1.4	1.0	<0.23	<0.39	<0.46	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.325	881.44
07/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	1.2	<0.49	<0.23	<0.39	<0.46	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	880.69
12/30/97	<0.10	<0.25	0.29	<0.25	<0.25	<0.35	<0.10	1.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	878.45
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	5.7	5.7	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	879.72
11/10/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	1.6	<0.37	<0.28	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	881.42
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	36	36	0.51	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	878.65
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	2.15	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	880.81
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	84.5	<5.0	<5.0	<0.214	<0.237	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	878.66
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	0.61	1.1	<1.0	<0.23	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	881.21
06/13/02	<2.2	<2.5	<3.2	<7.1	<2.5	<5.7	<7	<2.5	25	<2.7	<3	<0.6	<2.8	<3.5	<3.5	<2.8	<2.9	<1.3	<1.3	881.26
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	3.2	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.50
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<0.24	<0.74	<0.45	19	1.7	0.94	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	881.91
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	8.9	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.70
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	8.7	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	880.06
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-26  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	4.9	<1.0	<1.0	<0.50	1.5	<4.0	<4.0	1.0	<1.0	<1.0	<1.0	884.65
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	3.7	0.28	<0.39	<0.46	1.4	<0.38	<0.38	0.46	<0.28	<0.20	<0.22	885.94
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	<0.10	<0.25	0.37	<0.25	<0.25	<0.20	<0.10	<0.25	4.4	<0.25	<0.25	<0.25	1.4	<0.25	<0.25	0.44	<0.25	<0.25	<0.25	884.61
04/21/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	4.2	0.42	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	888.81
07/23/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
11/10/98	<0.20	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	3.5	<0.20	<0.39	<0.46	1.8	<1.2	<0.38	0.23	<0.28	<0.22	<0.35	884.75
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	3.6	<0.28	<0.79	<0.20	<0.35	<0.54	<0.61	<0.30	0.3	<0.34	<0.30	NA
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	4.0	<0.28	<0.79	<0.20	1.3	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	2.31	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	886.96
12/19/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	2.8	<1.0	<0.23	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	887.07
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	3.5	<0.53	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	886.32
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	2.7	<0.83	<0.89	<0.18	1.5	<0.97	<0.24	0.7	<0.90	<0.87	<0.95	885.57
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	0.87	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	891.82
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	1.5	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	885.81
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	0.95	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	886.21
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-25  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	2.5	<1.0	<1.0	<0.50	1.1	<4.0	<4.0	<1.0	2.5	<1.0	<1.0	878.54
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	2.1	<0.23	<0.39	<0.46	0.69	<0.38	<0.38	0.27	0.28	<0.22	<0.35	879.80
07/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	1.1	<0.23	<0.39	<0.46	1.1	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	880.27
12/30/97	<0.10	<0.25	0.62	<0.25	<0.25	<0.20	<0.10	1.4	1.4	<0.25	<0.25	<0.25	1.1	<0.25	<0.25	0.32	<0.25	<0.25	<0.25	878.49
04/21/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
07/23/98	<0.10	<0.25	<0.120	<0.25	<0.25	<0.20	<0.10	<0.25	0.76	<0.25	<0.25	<0.25	0.87	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	882.62
11/10/98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
08/02/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	0.64	<0.28	<0.79	<0.20	1.0	<0.54	<0.61	0.31	<0.30	NA	NA	881.35
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	0.88	0.88	<0.28	<0.79	<0.20	1.1	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	878.66
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	<0.5	<5.0	<5.0	<0.170	1.62	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	880.77
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	<0.50	<5.0	<5.0	<0.214	2.32	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	878.72
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	0.5	<1.0	<0.23	<0.23	1.9	<0.24	<0.24	0.24	<0.29	<0.25	<0.29	880.86
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	<0.73	<0.53	<0.59	<0.12	1.2	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	881.56
05/14/03	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
06/16/04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
05/24/05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/20/06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available

**Table 8**  
**Postremedial Groundwater Sample Laboratory Analytical Results**  
**MW-20**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	2.2	<1.0	<1.0	<b>35</b>	1.4	1.5	<b>0.89</b>	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	878.68
03/24/97	<0.31	0.44	<0.39	<1.1	<0.14	0.78	<0.35	<b>17</b>	<b>17</b>	0.95	0.55	<0.46	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	879.63
07/24/97	<0.31	0.84	<0.39	1.8	<0.14	0.65	<0.35	<0.63	<b>3.0</b>	0.38	<0.39	<0.46	<0.18	0.46	0.46	<0.20	<0.28	<0.22	<0.35	880.05
12/30/97	0.19	<0.25	0.58	0.96	<0.25	0.39	0.47	<0.25	<b>5.1</b>	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	878.47
04/21/98	<b>0.56</b>	90	4.6	230	<0.25	5.48	0.66	<0.25	<b>9.2</b>	0.82	0.57	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	881.82
07/23/98	<0.10	3.6	0.66	12	<0.25	5.48	0.66	<0.25	<b>21</b>	1.5	1.5	<2.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	879.47
11/10/98	<b>2.8</b>	3.2	15	20	<0.14	6.8	1.3	<0.63	<b>2.8</b>	<0.23	<0.39	<0.46	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	878.60
08/02/99	<0.27	11	1.0	24.8	<0.32	5.92	1.1	<0.43	<b>18</b>	1.2	1.5	<b>0.28</b>	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	880.97
11/17/99	<0.27	<0.32	<0.27	0.52	<0.32	<0.49	<0.35	<0.43	<b>4.3</b>	<0.28	<0.79	<b>0.29</b>	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	878.62
05/24/00	<0.5	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.5	<b>8.16</b>	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	880.42
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.50	<b>5.64</b>	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	878.71
05/23/01	0.37	15	1.1	37.1	<0.53	9.5	1.0	<0.25	<b>16</b>	<1.0	0.56	<b>0.36</b>	1.2	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	880.60
06/13/02	<0.43	5.7	4.1	23.3	<0.49	6.07	1.5	<0.49	<b>20</b>	1.6	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	882.01
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	<b>1.3</b>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.28
06/16/04	<0.41	14	<0.67	32.3	<0.61	25.6	6.2	<0.45	<b>1.2</b>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	884.00
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<0.97	<0.74	<0.45	<b>11</b>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	873.84
12/20/06	<0.41	0.73	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	<b>8.8</b>	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.83
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

**Notes:**

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
PAL: Preventive action limit  
PCE: Tetrachloroethene

TCE: Trichloroethene  
DCE: Dichloroethene  
NS: Not sampled

MTBE: Methyl-t-butyl-ether  
TMB: Trimethylbenzenes  
NA: Not analyzed/Not available

Table 8  
 Postremedial Groundwater Sample Laboratory Analytical Results  
 MW-15  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

Date	Benzene	Ethylbenzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<0.50	<1.0	<1.0	<3.0	<1.0	<2.0	<1.0	<1.0	4.2	<1.0	<1.0	<0.50	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	878.45
03/24/97	<0.31	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	2.2	<0.23	<0.39	<0.46	0.39	<0.38	<0.38	<0.20	0.5	<0.22	<0.35	879.77
07/24/97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/30/97	0.1	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	5.0	0.3	<0.25	1.5	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	878.40
04/21/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	6.5	1.0	0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	882.67
07/23/98	<0.10	<0.25	<0.10	<0.25	<0.25	<0.20	<0.10	<0.25	4.7	0.72	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	879.58
11/10/98	<0.20	<0.38	<0.39	<2.2	<0.14	<0.65	<0.35	<0.63	4.1	<0.23	<0.39	<0.46	0.23	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	878.57
08/02/99	1.2	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	11	5.4	1.7	0.7	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	NA
11/17/99	<0.27	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	5.7	2.7	0.8	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	887.40
05/24/00	2.47	<5.0	<5.0	<5.0	<0.5	<10.0	<8.0	<0.43	4.72	<5.0	<5.0	<0.170	<0.140	<5.0	<0.6	<0.5	<5.0	<5.0	<5.0	880.70
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<0.50	<5.0	<5.0	<5.0	<0.101	<10.0	<8.0	<0.5	4.04	<5.0	<5.0	<0.214	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	878.64
05/23/01	<0.25	<0.12	<0.22	<0.74	<0.53	<0.50	<0.68	<0.25	6.6	1.3	0.52	<0.23	<0.32	<0.24	<0.24	<0.21	<0.29	<0.25	<0.29	880.88
06/13/02	<0.43	<0.49	<0.63	<1.45	<0.49	<1.14	<1.4	<0.49	8.4	0.87	<0.59	<0.12	<0.56	<0.69	<0.69	<0.55	<0.57	<0.26	<0.26	NA
05/14/03	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	3.9	<0.83	<0.89	<0.18	1.0	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.41
06/16/04	<0.41	<0.54	<0.67	<2.63	<0.61	<0.24	<0.74	<0.87	1.4	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	885.63
05/24/05	<0.41	<0.54	<0.67	<2.63	<0.61	<1.8	<0.74	<0.45	1.6	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	879.69
12/20/06	<0.41	<0.54	<0.67	<2.63	<0.61	<1.80	<0.74	<0.45	1.1	<0.83	<0.89	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	880.03
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

Notes:

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard

PAL: Preventive action limit

PCE: Tetrachloroethene

TCE: Trichloroethene

DCE: Dichloroethene

NS: Not sampled

MTBE: Methyl-t-butyl-ether

TMB: Trimethylbenzenes

NA: Not analyzed/Not available



**Table 8**  
**Postremedial Groundwater Sample Laboratory Analytical Results**  
**MW-7**  
**Malleable Iron Range Site D**  
**Beaver Dam, Wisconsin**

Date	Benzene	Ethyl-benzene	Toluene	Total Xylenes	MTBE	TMBs	Naphthalene	PCE	TCE	cis-1,2-DCE	trans-1,2-DCE	Vinyl Chloride	Chloroform	Chloroethane	Chloromethane	Bromodichloromethane	1,1,1-Trichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Groundwater Elevations (MSL)
10/28/96	<b>63</b>	54	9.6	21	<1.0	26.3	9.6	<1.0	170	37	<1.0	<5.0	<1.0	<4.0	<4.0	<1.0	<1.0	<1.0	<1.0	875.70
03/24/97	<b>9</b>	14	9.2	16	<0.14	7.8	2.6	300	300	2.5	4	<0.46	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	877.05
07/24/97	2.4	<0.38	<0.39	<1.1	<0.14	<0.65	<0.35	<0.63	370	25	9.1	0.56	<0.18	<0.38	<0.38	<0.20	<0.28	<0.22	<0.35	877.43
12/30/97	<b>38</b>	29	2.4	2.5	<0.25	0.31	0.18	<0.25	79	210	98	1.4	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	875.57
04/21/98	<b>100</b>	<b>180</b>	64	170	<1.2	51.2	18	<1.2	77	84	41	2.9	<0.25	<0.25	<1.2	<1.2	<1.2	<1.2	<1.2	879.95
07/23/98	<b>180</b>	<b>200</b>	57	140	<1.2	51.2	18	<1.2	49	69	42	16	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2	876.79
11/10/98	56	58	2.9	65.6	<0.14	39.5	13	<0.63	18	53	35	8.2	<0.18	<1.2	<0.38	<0.20	<0.28	<0.22	<0.35	875.86
08/02/99	2.9	<0.32	<0.27	<0.67	<0.32	<0.49	<0.35	<0.43	<0.27	3.8	2.5	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	881.05
11/17/99	140	200	14	36.4	<0.32	41.4	8.4	13	13	33	24	<0.20	<0.35	<0.54	<0.61	<0.30	<0.30	<0.34	<0.30	878.61
05/24/00	<b>64.4</b>	134	69.7	296	<5.0	86.8	<80.0	<5.0	8.13	<50	<50	7.27	<1.40	<50	<6.0	<5.0	<5.0	<5.0	<5.0	880.44
08/03/00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NA
12/19/00	<b>53.5</b>	121	8.86	70.3	<0.101	174.9	30.6	<0.5	5.64	41.2	14	11.3	<0.196	<5.0	<0.237	<0.48	<5.0	<5.0	<5.0	877.86
05/23/01	79	510	100	600	<27	1,030	150	<13	<18	<50	<12	<12	<16	<12	<12	<11	<15	<13	<15	881.65
06/13/02	120	230	32	254	<4.9	253	36	<4.9	19	<5.3	<5.9	<1.2	<5.6	<6.9	<6.9	<5.5	<5.7	<2.6	<2.6	880.38
05/14/03	30	290	47	390	<3.0	920	150	<2.2	2.5	9.3	<4.4	<0.90	<1.8	<4.8	<1.2	<2.8	<4.5	<4.4	<4.8	877.42
06/16/04	21	590	170	1,070	<4.3	1,210	270	<4.5	<4.5	<8.3	<8.9	<0.90	<3.7	<9.7	<2.4	<5.6	<9.0	<8.7	<9.5	885.62
05/24/05	25	20	4.3	55.8	<1.2	138	14	<0.9	3.3	<1.7	<1.8	<0.36	<0.74	<1.9	<0.48	<1.1	<1.8	<1.7	<1.9	879.61
12/20/06	22	13	2.3	20.8	<0.61	26	6.2	<0.45	11	1.8	2.3	<0.18	<0.37	<0.97	<0.24	<0.56	<0.90	<0.87	<0.95	880.08
NR 140 PAL	0.5	140	200	1,000	12	96	8	0.5	0.5	7	20	0.02	0.6	80	0.3	0.06	40	125	15	-
NR 140 ES	5	700	1,000	10,000	60	480	40	5	5	70	100	0.2	6	400	3	0.6	200	1,250	75	-

**Notes:**

All results are reported in ppb

**Bold** indicates value equals or exceeds the NR 140 ES

*Italic* indicates value equals or exceeds the NR 140 PAL

ES: Enforcement standard  
 PAL: Preventive action limit  
 PCE: Tetrachloroethene

TCE: Trichloroethene  
 DCE: Dichloroethene  
 NS: Not sampled

MTBE: Methyl-t-butyl-ether  
 TMB: Trimethylbenzenes  
 NA: Not analyzed/Not available

Table 5  
Remedial Excavation Soil Sample Laboratory Analytical Results  
Malleable Iron Range Site D  
Beaver Dam, Wisconsin

SAMPLE ID	GRO (ppm)	DRO (ppm)	Benzene	Ethylbenzene	Toluene	Xylenes
NORTHERN EXCAVATION AREA						
N-B-2.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
N-BC-2-16	<5.0	<100	<5.0	<5.0	<5.0	<15
N-BC-2.5-20	<5.0	<100	<5.0	<5.0	<5.0	<15
N-BC-3-16	<5.0	<100	<5.0	<5.0	<5.0	<15
N-BC-2.5-15	NA	710	NA	NA	NA	NA
N-C-2.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
N-G-2.5-15	NA	670	NA	NA	NA	NA
N-G-2.5-18	<5.0	<100	<5.0	<5.0	<5.0	<15
N-GH-2.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
N-FG-2.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
N-G-3-15	<5.0	<100	<5.0	<5.0	<5.0	<15
N-G-2-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SOUTHERN EXCAVATION AREA						
S-A-2-7	<5.0	<100	<5.0	<5.0	<5.0	<15
S-AB-1-7	<5.0	<100	<5.0	<5.0	<5.0	<15
S-B-1-6	<5.0	<100	<5.0	<5.0	<5.0	<15
S-B-1-11	<5.0	<100	<5.0	<5.0	<5.0	<15
S-B-1.5-7	21	<100	<5.0	<5.0	<5.0	<15
S-BC-1-7	<5.0	<100	<5.0	<5.0	<5.0	<15
S-C-2-6	<5.0	<100	<5.0	<5.0	<5.0	<15
SOUTH-CENTRAL EXCAVATION AREA						
SC-AB-2-15	<5.0	<100	<5.0	<5.0	<5.0	<25
SC-B-2-19	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-B-2-18	NA	410	NA	NA	NA	NA
SC-B-2-15	<5.0	140	<5.0	<5.0	<5.0	<15
SC-B-6-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-BC-0-15	<5.0	<100	<5.0	<5.0	<5.0	<5
SC-BC-1-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-BC-3-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-BC-7.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-BC-6.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-BC-7-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-0-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-2-9	NA	11,000	NA	NA	NA	NA
SC-C-0-13	NA	1,200	NA	NA	NA	NA
SC-C-4-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-3-15	NA	660	NA	NA	NA	NA
SC-C-3-18	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-(-1)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-2-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-7.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-6.5-8	NA	890	NA	NA	NA	NA
SC-C-6.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-C-5.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-6-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-3-18	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-1-15	32	<100	<25	<25	<25	<25
SC-CD-1-9	NA	470	NA	NA	NA	NA
SC-CD-3-15	NA	140	NA	NA	NA	NA
SC-CD-(-1)-9	NA	130	NA	NA	NA	NA
SC-CD-(-1.5)-14	6.5	<100	<25	<25	<25	<25
SC-CD-(-1)-13	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-3-8	NA	550	NA	NA	NA	NA
SC-CD-(-2)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-CD-4.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
NR 720 Standard	100	100	6	2,900	1,500	4,100

Notes:

Bold indicates value equals or exceeds the NR720 standard

Samples collected between 6/23/95 and 7/24/95

Sample ID notation: Example SC-D-5-15 where SC=South-central excavation, D=row, 5=column, and 15=depth of sample

GRO: Gasoline range organics

DRO: Diesel range organics

Table 3 (Continued)  
Remedial Excavation Soil Sample Laboratory Analytical Results  
Malleable Iron Range Site D  
Beaver Dam, Wisconsin

SAMPLE ID	GRO (ppm)	DRO (ppm)	Benzene	Ethylbenzene	Toluene	Xylenes
SOUTH-CENTRAL EXCAVATION AREA						
SC-D-6.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-6.5-18	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-0-18	<5.0	<100	<5.0	<5.0	<5.0	46
SC-D-2-5	NA	220	NA	NA	NA	NA
SC-D-(-0.5)-14	<5.0	<100	<25	<25	<25	<75
SC-D-(-0.5)-8	NA	360	NA	NA	NA	NA
CS-D-(-0.5)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
CS-D-5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-(-1)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-7.5-6	NA	410	NA	NA	NA	NA
SC-D-7.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-8-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-4-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-6.5-9	NA	630	NA	NA	NA	NA
SC-D-(0.5)-5	NA	170	NA	NA	NA	NA
SC-D-2-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-3-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-D-6.5-18	<5.0	<100	NA	NA	NA	NA
SC-DE-7-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-DE-1-8	NA	1,200	NA	NA	NA	NA
SC-DE-(0.5)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-DE-0-15	<5.0	<100	<5.0	<5.0	<5.0	<22
SC-DE-1-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-2-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-6-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-6-6	NA	1,200	NA	NA	NA	NA
SC-E-4-6	NA	980	NA	NA	NA	NA
SC-E-5-6	NA	1,400	NA	NA	NA	NA
SC-E-3-6	NA	100	NA	NA	NA	NA
SC-E-(-0.5)-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-4-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-3-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-8-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-E-8-12	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-EF-1.5-15	<5.0	<100	<5.0	<5.0	<5.0	<5
SC-EF-1-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-EF-7-6	NA	150	NA	NA	NA	NA
SC-EF-7-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-6-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-3-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-4-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-7.5-6	NA	280	NA	NA	NA	NA
SC-F-7.5-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-F-8-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-FG-7.5-6	NA	180	NA	NA	NA	NA
SC-FG-7.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-FG-7-16	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-FG-7.5-6	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-G-1.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
SC-G-7.5-15	<5.0	<100	<5.0	<5.0	<5.0	<15
NR 720 Standard	100	100	6	2,900	1,500	4,100

Notes:

**Bold** indicates value equals or exceeds the NR720 standard

GRO: Gasoline range organics

Samples collected between 6/23/95 and 7/24/95

DRO: Diesel range organics

Sample ID notation: Example SC-D-5-15 where SC=South-central excavation, D=row, 5=column, and 15=depth of sample

Table 5 (Continued)  
 Remedial Excavation Soil Sample Laboratory Analytical Results  
 Malleable Iron Range Site D  
 Beaver Dam, Wisconsin

SAMPLE ID	GRO (ppm)	DRO (ppm)	Benzene	Ethylbenzene	Toluene	Xylenes
CENTRAL EXCAVATION AREA						
C-AB-6.5-9	NA	2,900	NA	NA	NA	NA
C-AB-7-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-A-0-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-0-15	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-(0.5)-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-A-6.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-BC-7-12.5	<5.0	<100	<5.0	<5.0	<5.0	<15
C-B-5-12	NA	240	NA	NA	NA	NA
C-AB-6-12	NA	<100	NA	NA	NA	NA
C-BC-6.5-12	NA	<100	NA	NA	NA	NA
C-CD-6.5-10	NA	800	NA	NA	NA	NA
C-HI-6-12	NA	<100	NA	NA	NA	NA
C-FG-6-8	NA	1,900	NA	NA	NA	NA
C-I-6-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-H-6-6	NA	2,000	NA	NA	NA	NA
C-EF-7-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-DE-7-12	NA	330	NA	NA	NA	NA
C-FG-7-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-G-6.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-H-5-12	NA	<100	NA	NA	NA	NA
C-A-4.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-DE-6-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-EF-6-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-A-5.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-H-6.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-A-1.5-12	NA	<100	NA	NA	NA	NA
C-BC-4-12	NA	<100	NA	NA	NA	NA
C-AB-4-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-1.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-BC-1.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-BC-3.5-12	26	<100	<5.0	<5.0	<5.0	<15
C-BC-2.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-3.5-12	NA	2,000	NA	NA	NA	NA
C-A-3.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-CD-3.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-CD-4-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-2.5-9	NA	1,300	NA	NA	NA	NA
C-A-2.5-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-AB-0.5-12	<5.0	<100	<5.5	<25	<25	<75
C-DE-0-12	NA	<100	NA	NA	NA	NA
C-EF-0-12	<5.0	<100	<5.5	<25	<25	<75
C-F-0.5-12	<5.0	<100	<5.5	<25	<25	<75
C-EF-0.5-12	NA	300	NA	NA	NA	NA
C-CD-1-12	NA	<100	NA	NA	NA	NA
C-A-0.5-12	NA	<100	NA	NA	NA	NA
C-DE-0.5-12	<5.0	<100	<5.5	<25	<25	<75
C-BC-0.5-12	NA	<100	NA	NA	NA	NA
C-CD-0.5-12	<5.0	<100	<5.5	<25	<25	<75
C-AB-0-12	NA	2,000	NA	NA	NA	NA
C-BC-0-12	<5.0	<100	<5.5	<25	<25	<75
C-AB-1-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-BC-1-12	<5.0	<100	<5.0	<5.0	<5.0	<15
C-CD-1-12	<5.0	<100	<5.0	<5.0	<5.0	<15
NR 720 Standard	100	100	6	2,900	1,500	4,100

Notes:

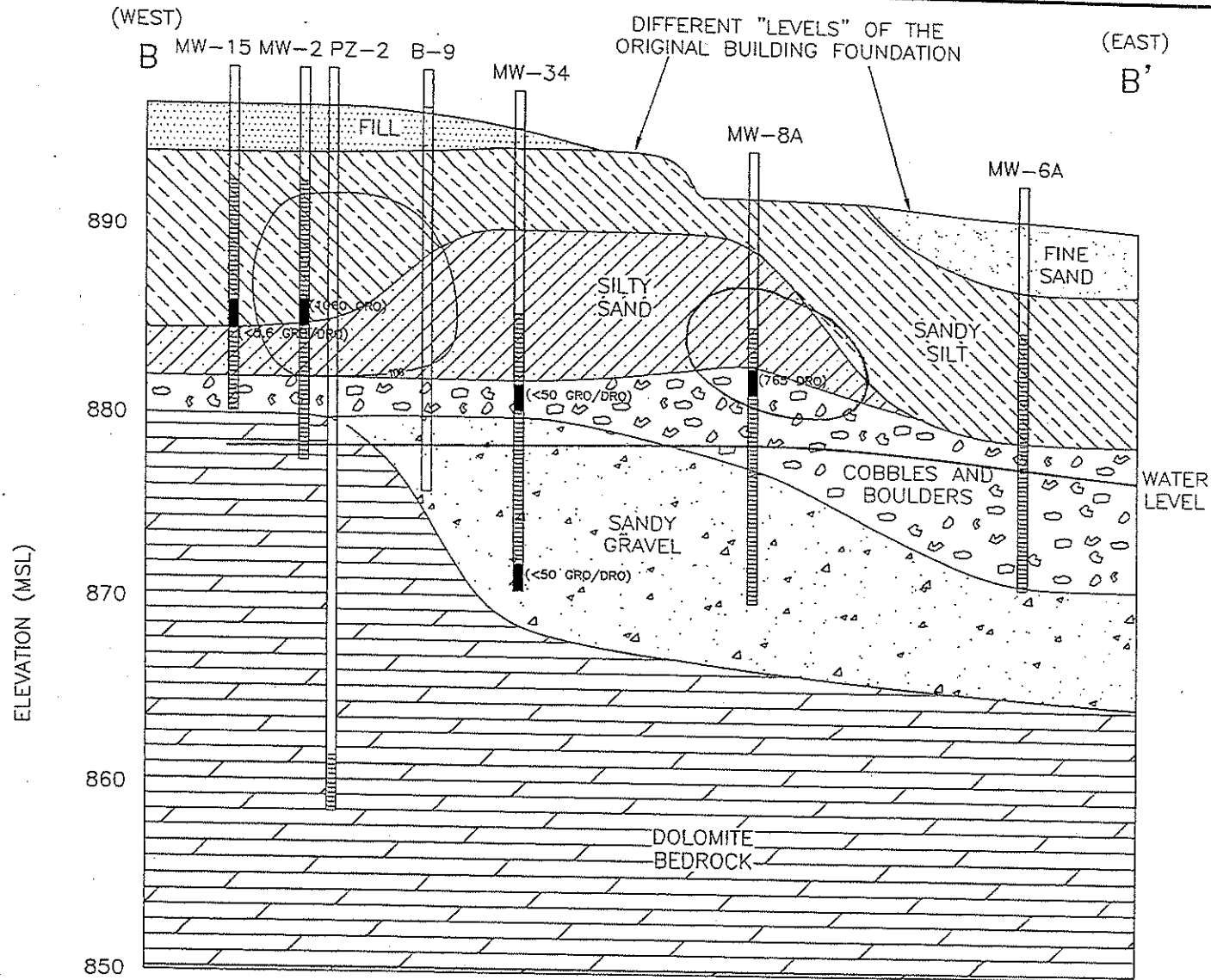
Bold indicates value equals or exceeds the NR720 standard

GRO: Gasoline range organics


Samples collected between 6/23/95 and 7/24/95

DRO: Diesel range organics

Sample ID notation: Example SC-D-5-15 where SC=South-central excavation, D=row, 5=column, and 15=depth of sample



- NOTES:
- NOT TO SCALE
  - CONCRETE AND PAVEMENT HAVE BEEN OMITTED FROM THE FIGURE
  - 100— NR720 STANDARD ISOCONTOUR
  - (100) GRO/DRO CONCENTRATION IN PPM
  - █ SAMPLE INTERVAL

		850 Highway 153, Suite F Madison, WI 53445 (715) 683-1750	
		Shaw Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	03/28/07	2656R43a	
<b>PREREMEDIAL SOIL GRO/DRO DISTRIBUTION/GEOLOGIC CROSS-SECTION B-B'</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	JRD	92.656	9

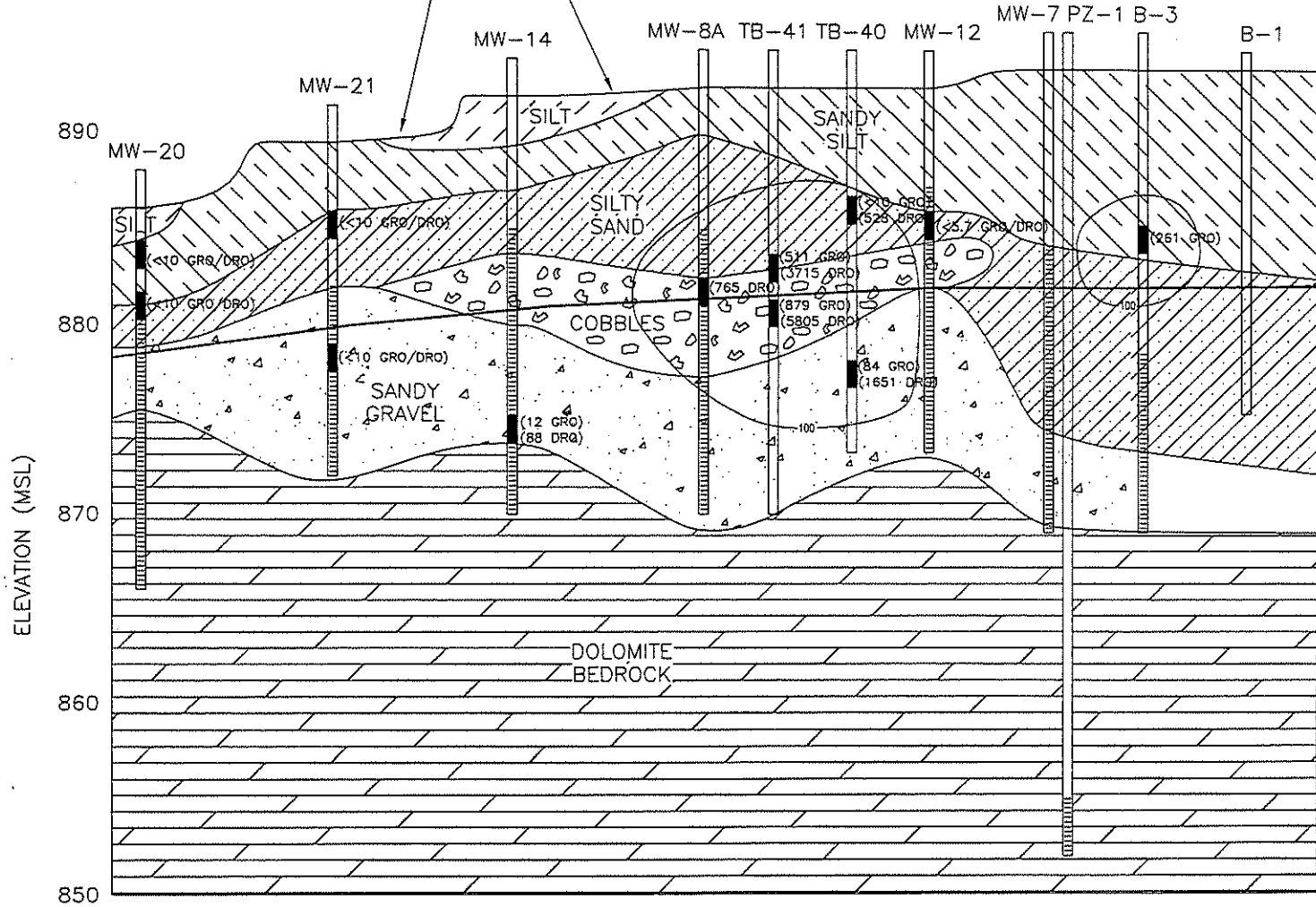
(SOUTH)

(NORTH)

A

A'


DIFFERENT "LEVELS" OF THE ORIGINAL BUILDING FOUNDATION

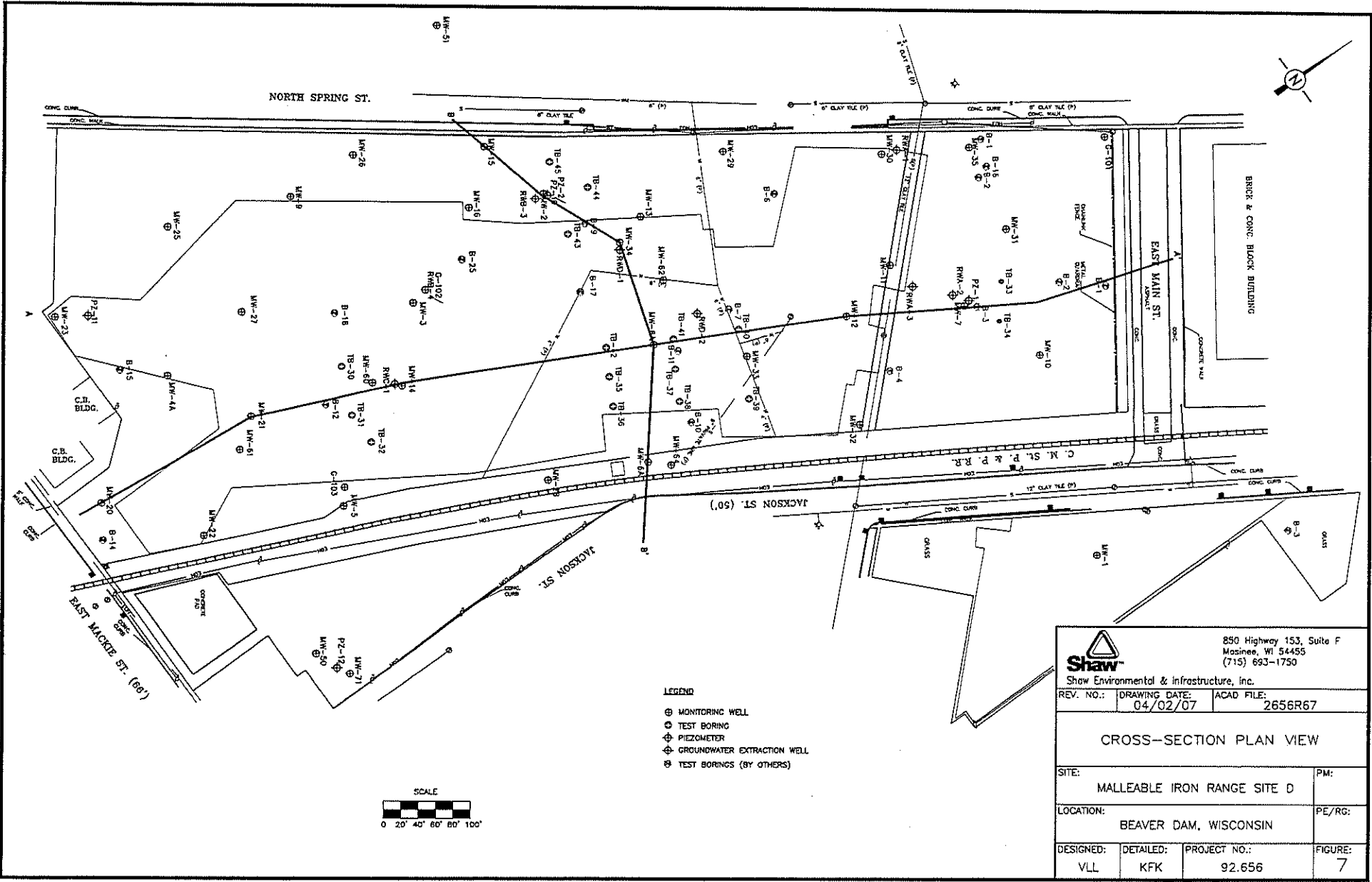


WATER LEVEL

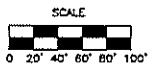
NOTES:

- NOT TO SCALE
- CONCRETE AND PAVEMENT HAVE BEEN OMITTED FROM THE FIGURE
- NR720 STANDARD ISOCONTOUR
- (100) GRO/DRO CONCENTRATION IN PPM
- █ SAMPLE INTERVAL

 <b>Shaw</b> Show Environmental & Infrastructure, Inc.		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		REV. NO.:	DRAWING DATE: 03/28/07
<b>PREREMEDIAL SOIL GRO/DRO          DISTRIBUTION/GEOLOGIC          CROSS-SECTION A-A'</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	JRD	92.656	8



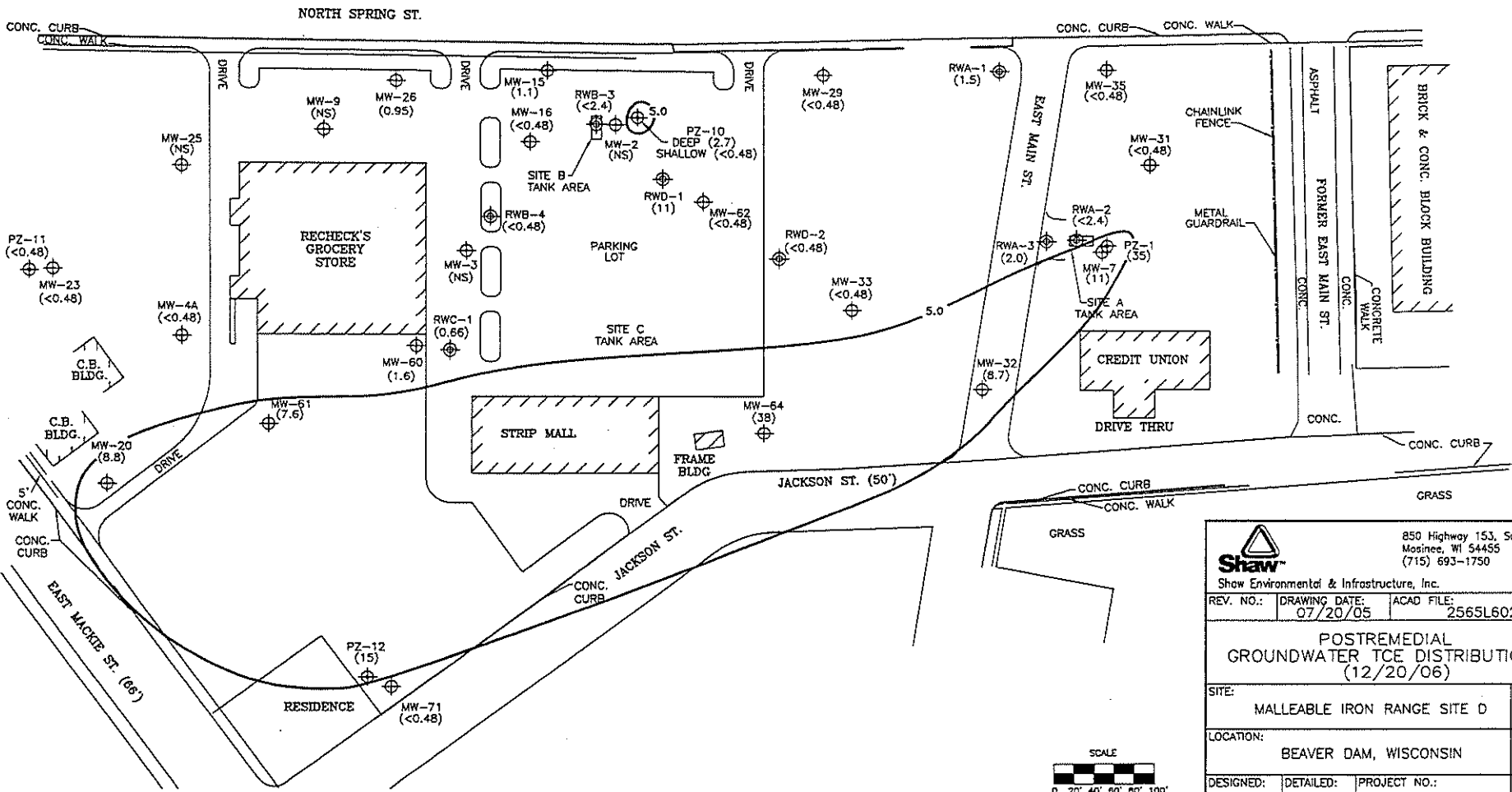
- LEGEND**
- ⊕ MONITORING WELL
  - ⊙ TEST BORING
  - ⊕ PIEZOMETER
  - ⊕ GROUNDWATER EXTRACTION WELL
  - ⊕ TEST BORINGS (BY OTHERS)



		850 Highway 153, Suite F Masinee, WI 54455 (715) 693-1750	
		Show Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	04/02/07	2656R67	
<b>CROSS-SECTION PLAN VIEW</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	7

**LEGEND**







MONITORING WELL  
 PIEZOMETER  
 RECOVERY WELL  
 5.0 ISOCONCENTRATION CONTOUR  
( ) TCE CONCENTRATION IN ppb  
NS NOT SAMPLED  
NOTE: THE NR140 ENFORCEMENT STANDARD FOR TCE IS 5.0 ppb

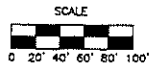
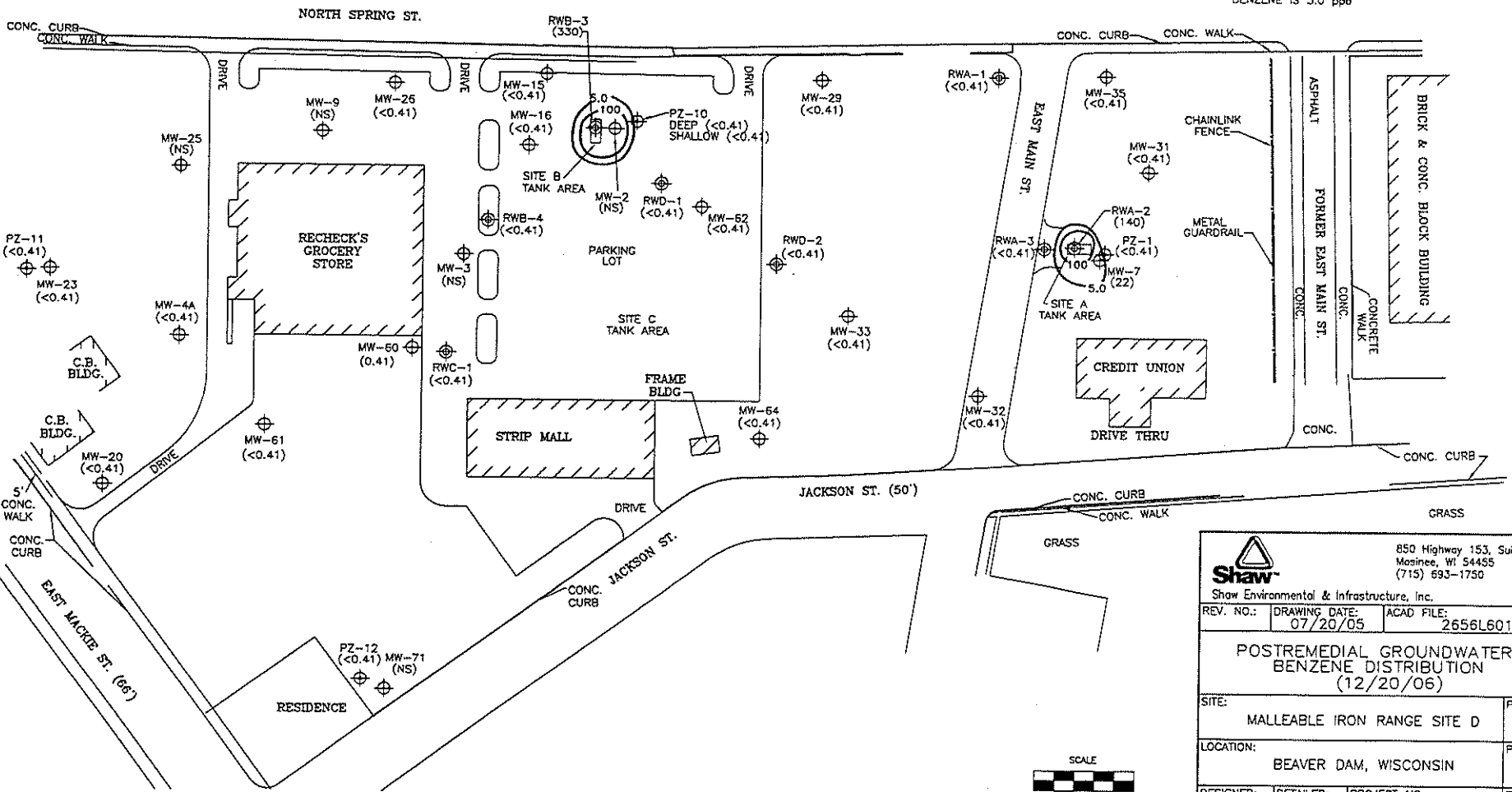



 850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750		
REV. NO.:	DRAWING DATE: 07/20/05	ACAD FILE: 2565L602
<b>POSTREMEDIATION GROUNDWATER TCE DISTRIBUTION</b> (12/20/06)		
SITE:	MALLEABLE IRON RANGE SITE D	PM:
LOCATION:	BEAVER DAM, WISCONSIN	PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:
VLL	KFK	92.656
SCALE 0 20' 40' 60' 80' 100'		FIGURE: 20

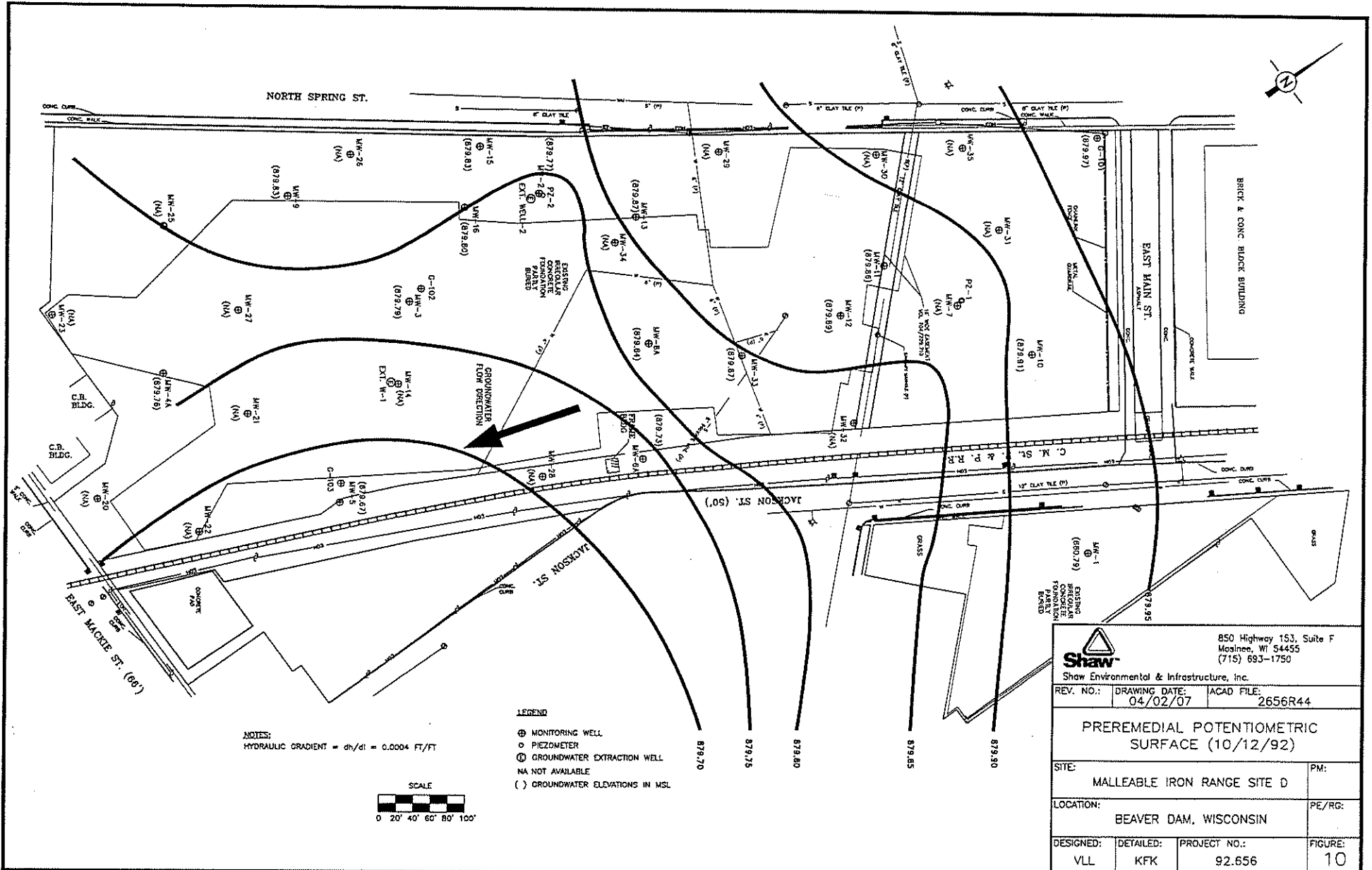
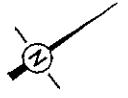


**LEGEND**

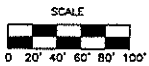
-  MONITORING WELL
-  PIEZOMETER
-  RECOVERY WELL
-  ISOCENTRATION CONTOUR
-  BENZENE CONCENTRATION IN ppb
-  NS NOT SAMPLED
- NOTE: THE NR140 ENFORCEMENT STANDARD FOR BENZENE IS 5.0 ppb




		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		Shaw Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	07/20/05	2656L601	
<b>POSTREMEDIATION GROUNDWATER BENZENE DISTRIBUTION (12/20/06)</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	19

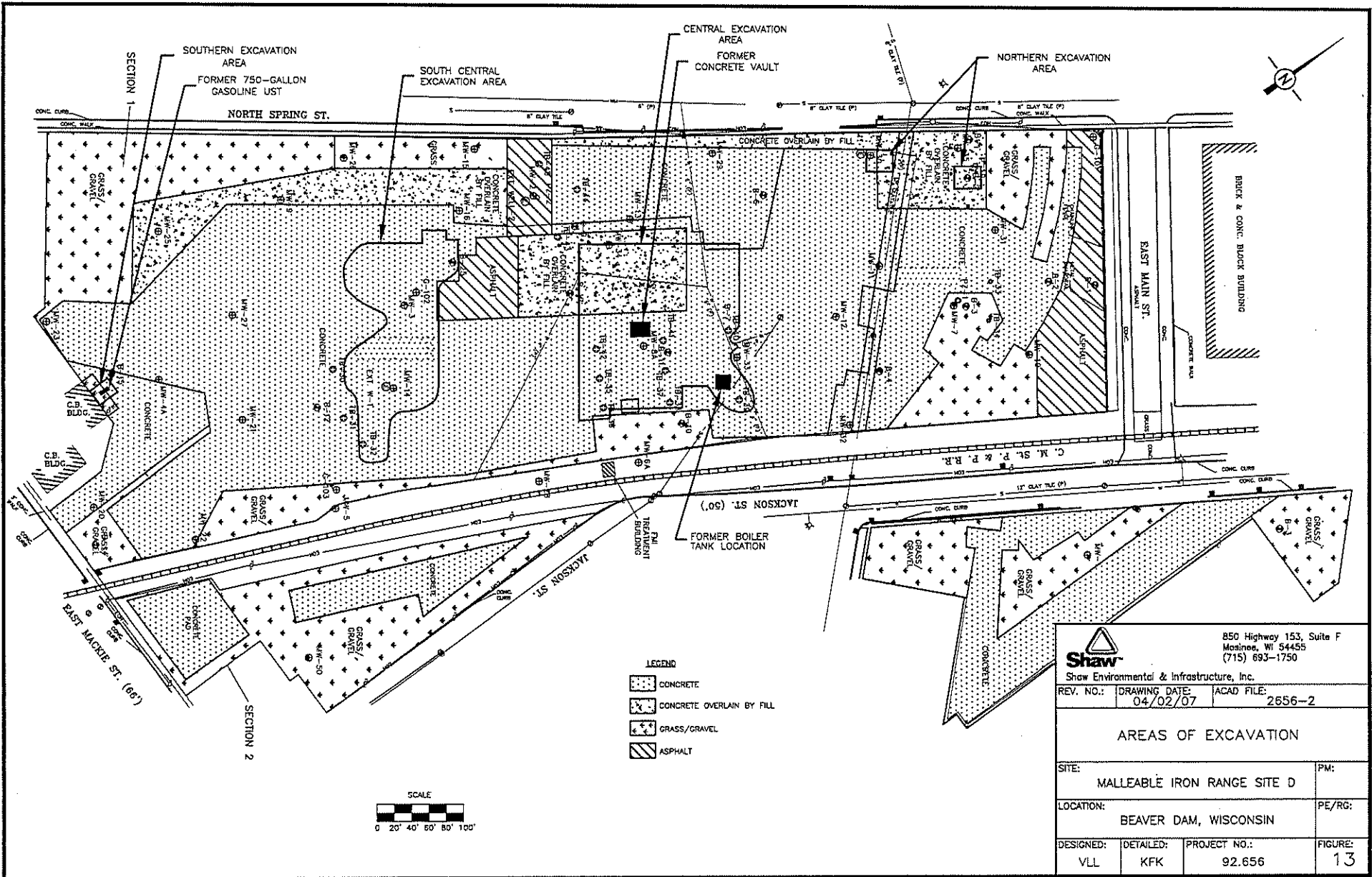


NOTES:  
 HYDRAULIC GRADIENT =  $dh/dl = 0.0004$  FT/FT

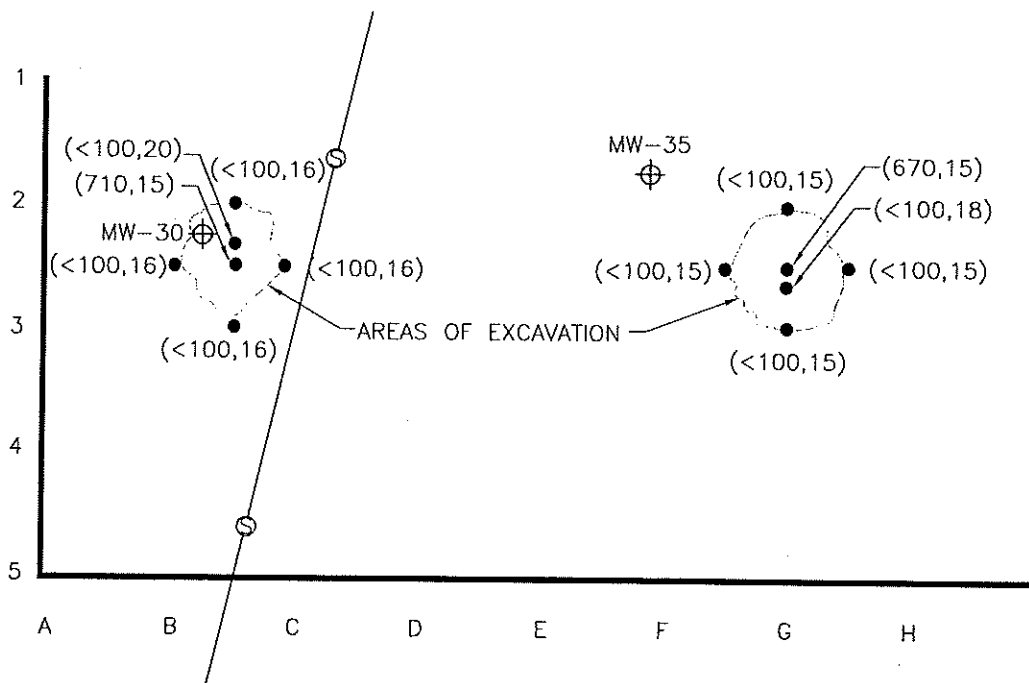


- LEGEND
- ⊕ MONITORING WELL
  - PIEZOMETER
  - ⊖ GROUNDWATER EXTRACTION WELL
  - NA NOT AVAILABLE
  - ( ) GROUNDWATER ELEVATIONS IN MSL

 Shaw Environmental & Infrastructure, Inc. 850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750		REV. NO.:		DRAWING DATE:		ACAD FILE:	
				04/02/07		2656R44	
<b>PREREMEDIAL POTENTIOMETRIC SURFACE (10/12/92)</b>							
SITE:		MALLEABLE IRON RANGE SITE D				PM:	
LOCATION:		BEAVER DAM, WISCONSIN				PE/RG:	
DESIGNED:	DETAILED:	PROJECT NO.:		FIGURE:			
VLL	KFK	92.656		10			



		850 Highway 153, Suite F Menomonie, WI 54455 (715) 693-1750	
		Show Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE: 04/02/07	ACAD FILE:	2656-2
<b>AREAS OF EXCAVATION</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	13




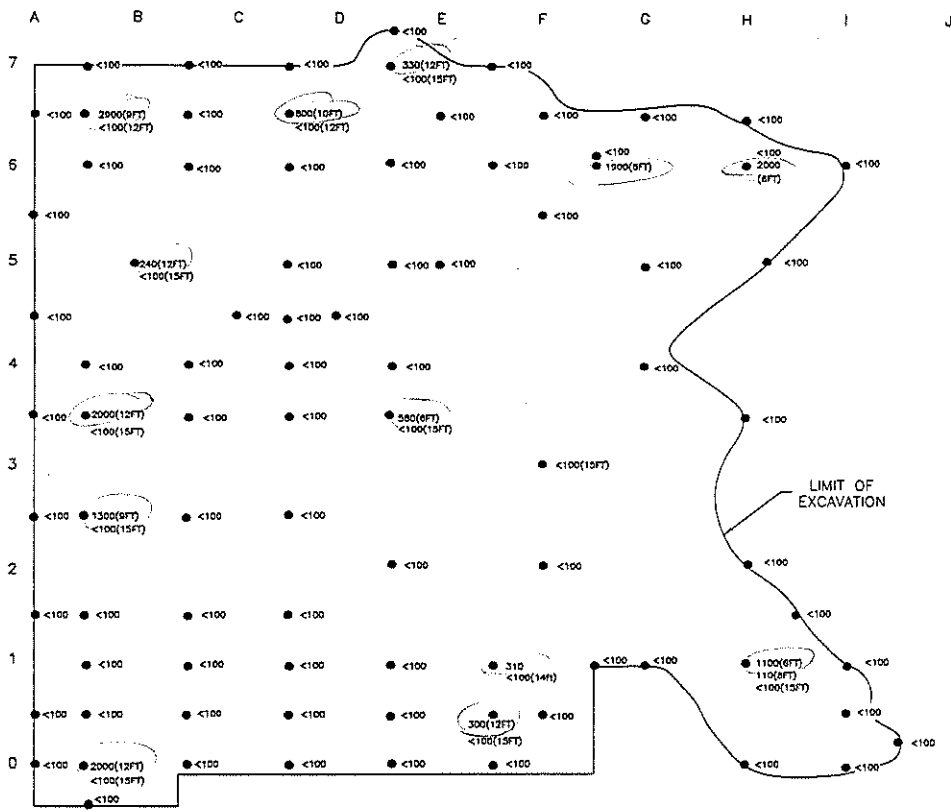
**LEGEND**

- SAMPLE LOCATION
- ⊕ MONITORING WELL
- ⊗ SANITARY SEWER LINE

(710,15) SOIL DRO CONCENTRATION IN ppm AND SAMPLE DEPTH

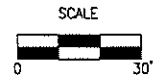



		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		Shaw Environmental & Infrastructure, Inc.	
REV. NO.:	DRAWING DATE:	ACAD FILE:	
	04/02/07	2656-3	
<b>NORTHERN EXCAVATION AREA</b>			
SITE:		PM:	
MALLEABLE IRON RANGE SITE D			
LOCATION:		PE/RG:	
BEAVER DAM, WISCONSIN			
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	14

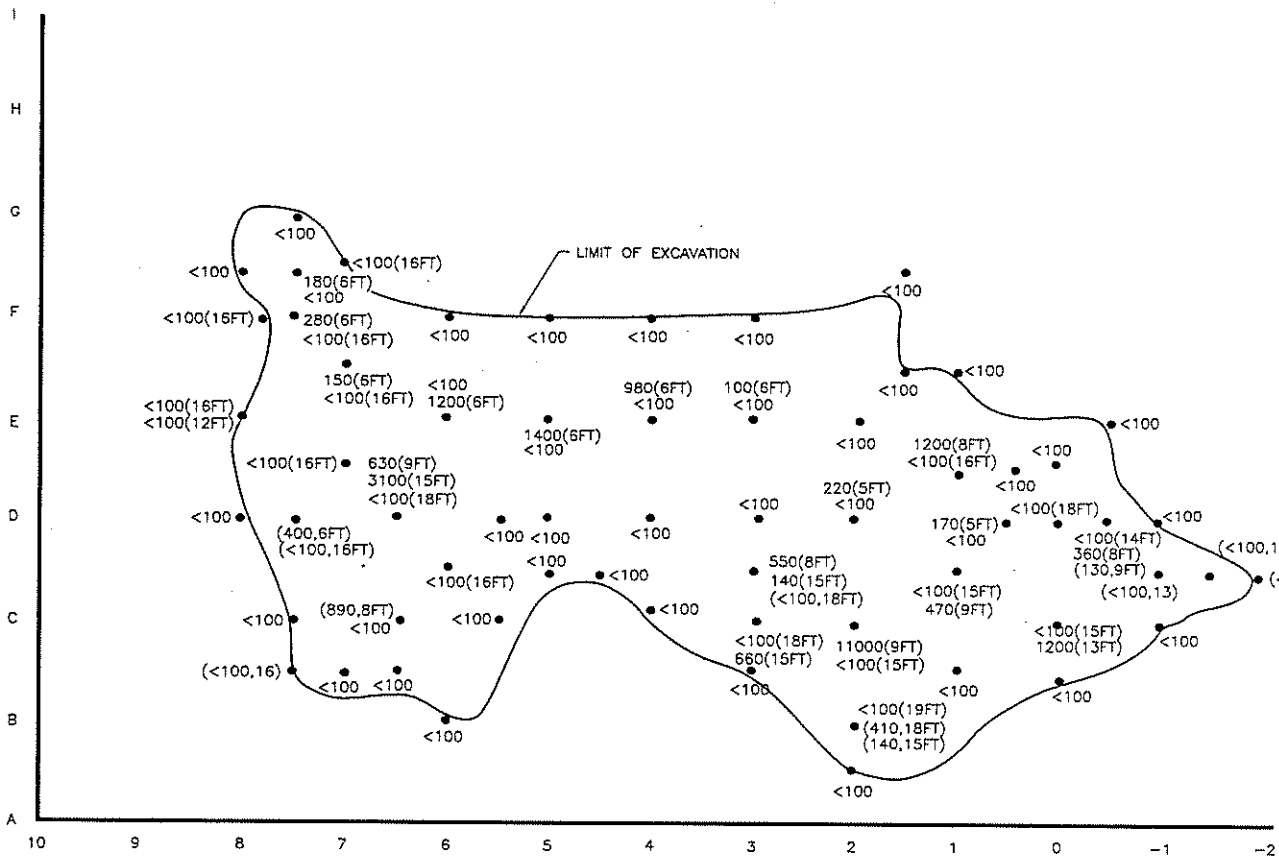



**LEGEND**

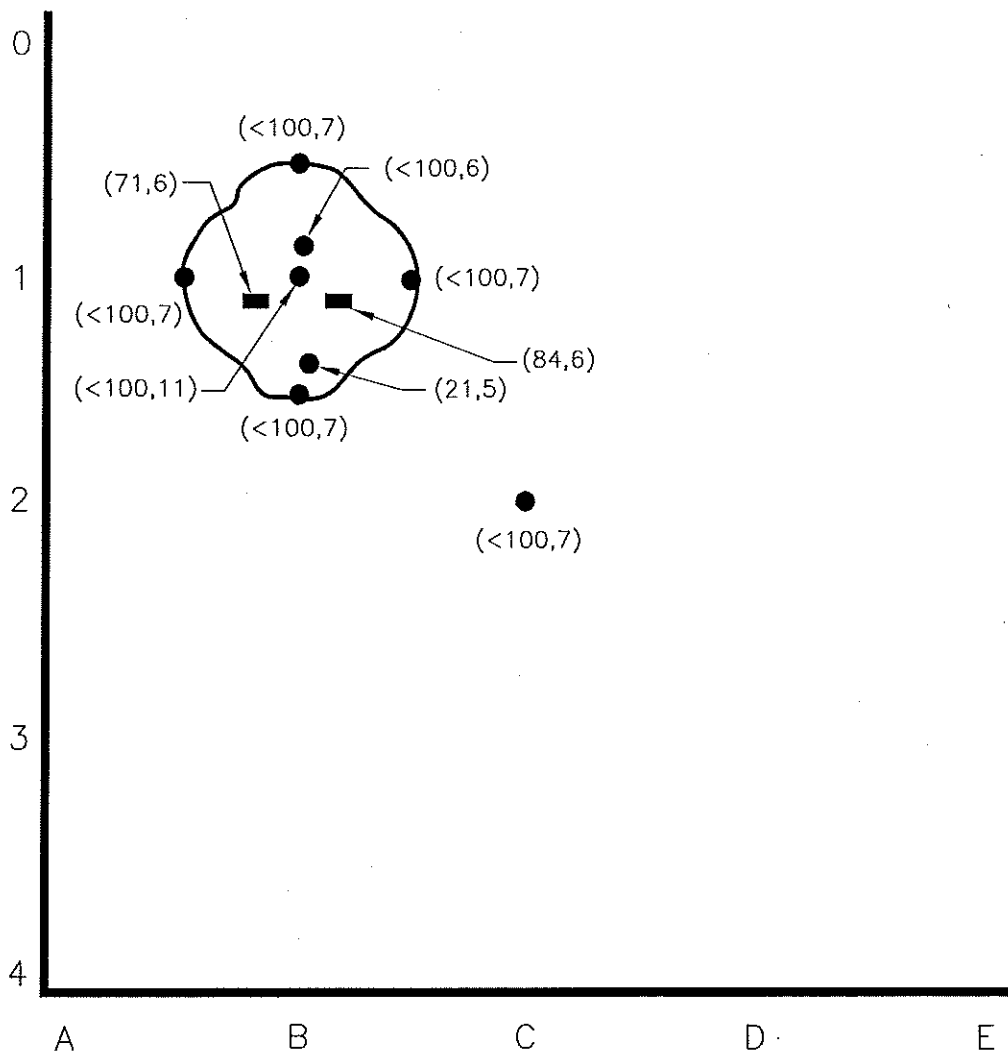
- SAMPLE LOCATION
- 300 (15) SOIL DRO CONCENTRATION IN ppm AND SAMPLE DEPTH
- SAMPLES WERE ACQUIRED FROM A DEPTH OF 12FT UNLESS OTHERWISE STATED



 Shaw Environmental & Infrastructure, Inc.		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		REV. NO.:	DRAWING DATE: 04/02/07
CENTRAL EXCAVATION AREA			
SITE: MALLEABLE IRON RANGE SITE D		PM:	
LOCATION: BEAVER DAM, WISCONSIN		PE/RG:	
DESIGNED: VLL	DETAILED: KFK	PROJECT NO.: 92.656	FIGURE: 15



 Shaw Environmental & Infrastructure, Inc.		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		REV. NO.:	DRAWING DATE:
	04/02/07	2856-5	
<b>SOUTH CENTRAL EXCAVATION AREA</b>			
SITE:	MALLEABLE IRON RANGE SITE D		PM:
LOCATION:	BEAVER DAM, WISCONSIN		PE/RG:
DESIGNED:	DETAILED:	PROJECT NO.:	FIGURE:
VLL	KFK	92.656	16

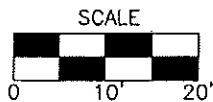



**LEGEND**

■ SAMPLES TAKEN DURING TANK REMOVAL

● SAMPLE LOCATION

(71,15) SOIL GRO CONCENTRATION IN ppm AND SAMPLE DEPTH



 <b>Shaw</b> Shaw Environmental & Infrastructure, Inc.		850 Highway 153, Suite F Mosinee, WI 54455 (715) 693-1750	
		REV. NO.:	DRAWING DATE: 04/02/07
<b>SOUTHERN EXCAVATION AREA</b>			
SITE: MALLEABLE IRON RANGE SITE D		PM:	
LOCATION: BEAVER DAM, WISCONSIN		PE/RG:	
DESIGNED: VLL	DETAILED: KFK	PROJECT NO.: 92.656	FIGURE: 17

March 9, 2007

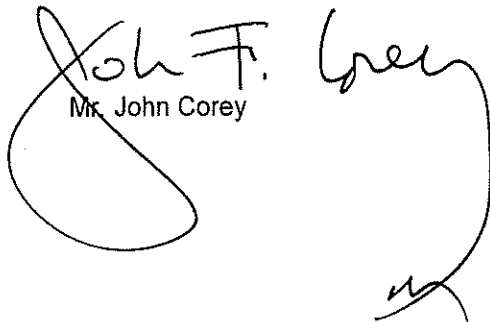
Ms. Denise Nettesheim  
Wisconsin Department of Natural Resources  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711

**Re: GIS Registry RP Legal Description Signed Statement for the  
Malleable Iron Range Site D, Beaver Dam, WI  
WDNR No. 03-14-0001263  
Shaw Environmental Project No. 124584**

Dear Ms. Nettesheim:

Please be advised that the legal description for the Malleable Iron Range Site D located in Beaver Dam, Wisconsin, has been attached and is located within the contaminated site boundaries.

Sincerely,

  
Mr. John Corey

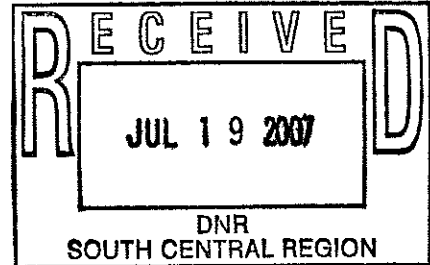




July 16, 2007

Mr. and Mrs. Daniel and Kathleen Wackett  
143 East Mackie Street  
Beaver Dam, Wisconsin 53916

**RE: Notice of Residual Groundwater Contamination at the  
Malleable Iron Range Property, Beaver Dam, Wisconsin**



Dear Mr. and Mrs. Wackett:

Groundwater petroleum contamination, in excess of Wisconsin Administrative Code (WAC) NR 140 groundwater enforcement standards (ESs) from the above-referenced property, is present in monitoring wells located on its property boundary and there is the potential that groundwater contamination has migrated onto the rights-of-way of East Mackie Street and Jackson Street, south and east of the site, respectively. Additionally, there is the potential that contamination has migrated onto properties, owned by you, located at 143 East Mackie Street and 138 East Mackie Street. Contamination in the form of trichloroethene exists at concentrations exceeding NR 140 ESs. However, the contaminant plume is receding and trends are decreasing. Conditional case closure from the Wisconsin Department of Natural Resources (WDNR) has been requested. If closure is granted with no additional investigation or cleanup activities required, WDNR reserves the right to reopen the investigation if, in the future, site conditions indicate that any contamination that remains may pose a threat to human health or the environment.

Since the source of groundwater contamination potentially on your property was not caused by your actions, neither you nor any subsequent owner of your property will be held responsible for additional investigation or cleanup of the contamination, if deemed necessary by WDNR, as long as you and any subsequent owners comply with the requirements of Section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of Section 292.13, Wisconsin Statutes, you may call 1-800-367-6076, to obtain a copy of the Wisconsin Department of Natural Resources' (WDNR) publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination.

If conditional case closure is granted with groundwater contamination present in excess of an NR 140 ES, the site will be listed on the WDNR's Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 ESs was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources' Internet web site.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to call Diggers Hotline (1-800-242-8511) if your property is located outside of the service area of a municipally owned water system, or contact the Drinking Water program within the Department of Natural Resources if your property is located within the designated service area of a municipally owned water system, to determine if there is a need for special well construction standards.

If the site is granted closure, the WDNR will not add this property to the GIS Registry of Closed Remediation Sites for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the WDNR to provide any technical information that you may have that indicates that this site should not be added to the GIS Registry of Closed Remediation Sites. If you would like to submit any relevant

Mr. and Mrs. Wackett  
July 16, 2007, Page 2

information to the WDNR, you should mail that information to: Ms. Denise Nettesheim, 3911 Fish Hatchery Road, Fitchburg, Wisconsin 53711.

Once the site is closed, you may obtain a copy of the conditional case closure letter by requesting a copy from me, by writing to the agency address given above, or by accessing the WDNR GIS Registry of Closed Remediation Sites on the Internet at [www.dnr.state.wi.us/org/at/et/geo/gwur](http://www.dnr.state.wi.us/org/at/et/geo/gwur). A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information or have any questions regarding this notification, you may contact me at (715) 849-8986.

Sincerely,  
**Shaw Environmental, Inc.**



Victoria L. Loveland  
Engineer 3

cc: Ms. Denise Nettesheim, WDNR, 3911 Fish Hatchery Road, Fitchburg, WI 53711  
Mr. John Corey, Dodge County Corporate Counsel, 127 East Oak Grove Street, Juneau, WI 53039  
File copy

DOCUMENT NO

STATE BAR OF WISCONSIN FORM 3 - 1982  
QUIT CLAIM DEED FEE

THIS SPACE RESERVED FOR RECORDING DATA

\$ 13  
EXEMPT

COUNTY OF DODGE,

Office of Register of Deeds  
Dodge County, WI  
RECEIVED FOR RECORD  
NOV 28 1990  
at 9:20 o'clock A.M.  
DORIS WESTRA - Registrar

quit-claims to DANIEL J. WACKETT and KATHLEEN E. WACKETT, husband and wife, as survivor-ship marital property,

the following described real estate in Dodge State of Wisconsin: County:

Atty Steve Hannan  
Es Sec 695  
Beaver Dam, W. 53916-0695

The North 24.00 feet of the South 130.00 feet of Lot 11, EXCEPT the East 54.00 feet thereof, also the East 4.00 feet of the North 24.00 feet of the South 130.00 feet of Lot 12, all in Block 1 of Mackie's Addition to Beaver Dam, City of Beaver Dam, Dodge County, Wisconsin.

Tax Parcel No:

1/41

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

Dated this 8 day of November, 1990

June Harkins (SEAL) by Charles E. Swain, County Board Chairman  
Linda J. Niles (SEAL) by Dorothy E. Ebert, County Clerk

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s)

STATE OF WISCONSIN

authenticated this day of 19

DODGE County, Wis.  
Personally came before me this 8 day of November, 1990, the above named County of Dodge by Charles E. Swain, its County Board Chairman, and Dorothy E. Ebert, County Clerk.

TITLE: MEMBER STATE BAR OF WISCONSIN

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

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

THIS INSTRUMENT WAS DRAFTED BY Stephen J. Hannan

Attorney at Law

June L. Harkins

Notary Public, State of Wisconsin  
My Commission is permanent. (If not, state expiration date.)  
date: September 19

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

DOCUMENT NO. **FEE**  
**13**  
**EXEMPT**

VOL. **704** PAGE **674**  
STATE BAR OF WISCONSIN FORM 3--1982  
QUIT CLAIM DEED  
**705** PAGE **388**

738400

THIS SPACE RESERVED FOR RECORDING DATA

COUNTY OF DODGE,

quit-claims to **DANIEL J. WACKETT**

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

The North 12.00 feet of the South 130.00 feet of the East 54.00 feet of Lot 11, Block 1 of Mackie's Addition to Beaver Dam, City Beaver Dam, Dodge County, Wisconsin.

Office of Register of Deeds  
Dodge County, WI  
RECEIVED FOR RECORD

NOV 28 1990  
at **9:20** o'clock **A. M.**  
*Doris Westra*  
DORIS WESTRA - Registrar

RETURN TO  
Atty. Steve Hannan  
P.O. Box 698  
Beaver Dam, WI 53916-0698

Tax Parcel No: **738780**

Office of Register of Deeds  
Dodge County, WI  
RECEIVED FOR RECORD

DEC 12 1990  
at **9:21** o'clock **A. M.**  
*Doris Westra*  
DORIS WESTRA - Registrar

This Deed is being re-recorded to correct the names of the Grantee herein.

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

Dated this **8** day of **November**, 19**90**

COUNTY OF DODGE

*June Harkins* (SEAL BY)  
June Harkins  
*Linda J. Niles* (SEAL BY)  
Linda J. Niles

*Chas. E. Swain* (SEAL)  
Charles E. Swain, County Board Chairman  
*Dorothy E. Ebert* (SEAL)  
Dorothy E. Ebert, County Clerk

AUTHENTICATION

ACKNOWLEDGMENT

Signature(s) .....

STATE OF WISCONSIN

authenticated this .....day of ....., 19.....

DODGE.....County.

TITLE: MEMBER STATE BAR OF WISCONSIN

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

Personally came before me this **8** day of **November**, 19**90** the above named County of Dodge, by **Charles E. Swain**, its County Board Chairman, and **Dorothy E. Ebert**, its County Clerk,

THIS INSTRUMENT WAS DRAFTED BY  
**Stephen J. Hannan**  
Attorney at Law

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

*June L. Harkins*  
June L. Harkins  
Notary Public, State of **Wisconsin**, Wis.  
My Commission is permanent. (If not, state expiration date: **September 19** 19**93**)

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

*page 204 of 206  
674*

*738780*

FEE  
EXEMPT

# 8

DANIEL J. WACKETT and KATHEEN E. WACKETT, husband and wife, and each individually, quit-claims to DANIEL J. WACKETT and KATHLEEN E. WACKETT, husband and wife, as survivorship marital property,

Office of Registrar of Deeds  
Dodge County, WI  
RECEIVED FOR RECORD

JUL 22 1991  
at 9:24 o'clock A.M.  
DORIS WESTRA - Registrar

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

Parcel 1:

Beginning at the South East corner of Lot Eleven (11), Block One (1) of Mackie's Addition to Beaver Dam; thence running North on the East line of said lot, a distance of 118 feet; thence West, parallel with South boundary line of said lot, a distance of 54 feet; thence South, parallel with the East boundary line of said lot, a distance of 118 feet to the South boundary line of said lot; thence East, on the South boundary line of said lot, a distance of 54 feet to the place of beginning.

Steve Hannan, Atty.  
P.O. Box 698  
Beaver Dam, WI

Tax Parcel No: .....

Parcel 2:

The North 12.00 feet of the South 130.00 feet of the East 54.00 feet of Lot 11, Block 1 of Mackie's Addition to Beaver Dam, City of Beaver Dam, Dodge County, Wisconsin.

This Deed is given for the purpose of creating a survivorship marital interest between the grantees herein.

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

Dated this 16<sup>th</sup> day of July, 1991

(SEAL) Daniel J. Wackett (SEAL)  
Daniel J. Wackett  
(SEAL) Kathleen E. Wackett (SEAL)  
Kathleen E. Wackett

AUTHENTICATION

Signature(s) of Daniel J. Wackett and Kathleen E. Wackett, husband and wife, and each individually, authenticates this deed as of JULY, 1991.

Stephen J. Hannan  
TITLE: MEMBER STATE BAR OF WISCONSIN

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

THIS INSTRUMENT WAS DRAFTED BY  
Stephen J. Hannan  
Attorney at Law

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

ACKNOWLEDGMENT

STATE OF WISCONSIN

ss. \_\_\_\_\_ County.  
Personally came before me this \_\_\_\_\_ day of \_\_\_\_\_, 19\_\_\_\_ the above named

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

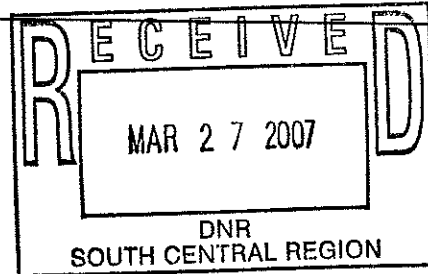
Notary Public \_\_\_\_\_ County, Wis.  
My Commission is permanent. (If not, state expiration date: \_\_\_\_\_, 19\_\_\_\_.)

Handwritten note: Parcel 11, Block 1, Dodge County, Wisconsin



March 21, 2007

Dodge Central Credit Union  
106 East Main Street  
Beaver Dam, Wisconsin 53916



**RE: Notice of Residual Groundwater Contamination at the  
Malleable Iron Range Property, 715 North Spring Street, Beaver Dam, Wisconsin**

Dear Sir or Madam:

Groundwater petroleum contamination, in excess of Wisconsin Administrative Code (WAC) NR 140 groundwater enforcement standards (ESs) from the above-referenced property, is present in monitoring wells located on its property boundary and there is the potential that groundwater contamination has migrated onto your property or the rights-of-way of East Mackie Street and Jackson Street, south and east of the site, respectively. Contamination in the form of trichloroethene exists at concentrations exceeding NR 140 ESs in several wells (please see the attached figure). However, the contaminant plume is receding and trends are decreasing. Conditional case closure from the Wisconsin Department of Natural Resources (WDNR) will soon be requested. If closure is granted with no additional investigation or cleanup activities required, WDNR reserves the right to reopen the investigation if, in the future, site conditions indicate that any contamination that remains may pose a threat to human health or the environment.

Since the source of groundwater contamination potentially on your property was not caused by your actions, neither you nor any subsequent owner of your property will be held responsible for additional investigation or cleanup of the contamination, if deemed necessary by WDNR, as long as you and any subsequent owners comply with the requirements of Section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of Section 292.13, Wisconsin Statutes, you may call 1-800-367-6076, to obtain a copy of the Wisconsin Department of Natural Resources' (WDNR) publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination.

If conditional case closure is granted with groundwater contamination present in excess of an NR 140 ES, the site will be listed on the WDNR's Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 ESs was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources' Internet web site.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to call Diggers Hotline (1-800-242-8511) if your property is located outside of the service area of a municipally owned water system, or contact the Drinking Water program within the Department of Natural Resources if your property is located within the designated service area of a municipally owned water system, to determine if there is a need for special well construction standards.

If the site is granted closure, the WDNR will not add this property to the GIS Registry of Closed Remediation Sites for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the WDNR to provide any technical information that you may have that indicates that this site should not be added to the GIS Registry of Closed Remediation Sites. If you would like to submit any relevant

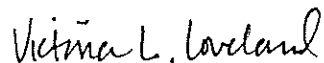
Dodge Central Credit Union  
March 21, 2007, Page 2

information to the WDNR, you should mail that information to: Ms. Denise Nettesheim, 3911 Fish Hatchery Road, Fitchburg, Wisconsin 53711.

Once the site is closed, you may obtain a copy of the conditional case closure letter by requesting a copy from me, by writing to the agency address given above, or by accessing the WDNR GIS Registry of Closed Remediation Sites on the Internet at [www.dnr.state.wi.us/org/at/et/geo/gwur](http://www.dnr.state.wi.us/org/at/et/geo/gwur). A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at Shaw Environmental, Inc., 3708 Hilltop Avenue, Wausau, Wisconsin 54401, at (715) 849-8986.

Sincerely,  
**Shaw Environmental, Inc.**



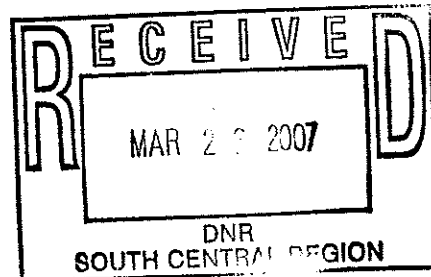
Victoria L. Loveland  
Engineer 3

cc: Ms. Denise Nettesheim, WDNR, 3911 Fish Hatchery Road, Fitchburg, WI 53711  
Mr. John Corey, Dodge County Corporate Counsel, 127 East Oak Grove Street, Juneau, WI 53039



March 21, 2007

Mr. Mike Laue  
Consulting City Engineer  
City of Beaver Dam Engineering Department  
205 South Lincoln Avenue  
Beaver Dam, Wisconsin 53916



**RE: Notice of Residual Groundwater Contamination at the  
Malleable Iron Range Property, 715 North Spring Street, Beaver Dam, Wisconsin**

Dear Mr. Laue:

Groundwater petroleum contamination, in excess of Wisconsin Administrative Code (WAC) NR 140 groundwater enforcement standards (ESs) from the above-referenced property, is present in monitoring wells located on its property boundary and there is the potential that groundwater contamination has migrated onto the rights-of-way of East Mackie Street and Jackson Street, south and east of the site, respectively. Contamination in the form of trichloroethene exists at concentrations exceeding NR 140 ESs. However, the contaminant plume is receding and trends are decreasing. Conditional case closure from the Wisconsin Department of Natural Resources (WDNR) will soon be requested. If closure is granted with no additional investigation or cleanup activities required, WDNR reserves the right to reopen the investigation if, in the future, site conditions indicate that any contamination that remains may pose a threat to human health or the environment.

Since the source of groundwater contamination potentially on your property was not caused by your actions, neither you nor any subsequent owner of your property will be held responsible for additional investigation or cleanup of the contamination, if deemed necessary by WDNR, as long as you and any subsequent owners comply with the requirements of Section 292.13, Wisconsin Statutes, including allowing access to your property for environmental investigation or cleanup if access is required. For further information on the requirements of Section 292.13, Wisconsin Statutes, you may call 1-800-367-6076, to obtain a copy of the Wisconsin Department of Natural Resources' (WDNR) publication #RR-589, Fact Sheet 10: Guidance for Dealing with Properties Affected by Off-Site Contamination.

If conditional case closure is granted with groundwater contamination present in excess of an NR 140 ES, the site will be listed on the WDNR's Geographic Information System (GIS) Registry of Closed Remediation Sites. The information on the GIS Registry includes maps showing the location of properties in Wisconsin where groundwater contamination above chapter NR 140 ESs was found at the time that the case was closed. This GIS Registry will be available to the general public on the Department of Natural Resources' Internet web site.

Should you or any subsequent property owner wish to construct or reconstruct a well on your property, special well construction standards may be necessary to protect the well from the residual groundwater contamination. Any well driller who proposes to construct a well on your property in the future will first need to call Diggers Hotline (1-800-242-8511) if your property is located outside of the service area of a municipally owned water system, or contact the Drinking Water program within the Department of Natural Resources if your property is located within the designated service area of a municipally owned water system, to determine if there is a need for special well construction standards.

If the site is granted closure, the WDNR will not add this property to the GIS Registry of Closed Remediation Sites for at least 30 days after the date of this letter. As an affected property owner, you have a right to contact the WDNR to provide any technical information that you may have that indicates that this site should



Mr. Mike Laue  
March 21, 2007, Page 2

not be added to the GIS Registry of Closed Remediation Sites. If you would like to submit any relevant information to the WDNR, you should mail that information to: Ms. Denise Nettesheim, 3911 Fish Hatchery Road, Fitchburg, Wisconsin 53711.

Once the site is closed, you may obtain a copy of the conditional case closure letter by requesting a copy from me, by writing to the agency address given above, or by accessing the WDNR GIS Registry of Closed Remediation Sites on the Internet at [www.dnr.state.wi.us/org/at/et/qeo/gwur](http://www.dnr.state.wi.us/org/at/et/qeo/gwur). A copy of the closure letter is included as part of the site file on the GIS Registry of Closed Remediation Sites.

If you need more information, you may contact me at Shaw Environmental, Inc., 3708 Hilltop Avenue, Wausau, Wisconsin 54401, at (715) 849-8986.

Sincerely,  
**Shaw Environmental, Inc.**



Victoria L. Loveland  
Engineer 3

cc: Ms. Denise Nettesheim, WDNR, 3911 Fish Hatchery Road, Fitchburg, WI 53711  
Mr. John Corey, Dodge County Corporate Counsel, 127 East Oak Grove Street, Juneau, WI 53039



February 22, 2008

Dodge Central Credit Union  
106 E. Main Street  
Beaver Dam, Wisconsin 53916

**RE: Notice of Lost Monitoring Well at the  
Malleable Iron Range Property, 715 North Spring Street, Beaver Dam, Wisconsin**

Dear Sir or Madam:

On behalf of Dodge County, Shaw Environmental, Inc. (Shaw) has requested closure from the Wisconsin Department of Natural Resources (WDNR) for an environmental site investigation and remediation at the Former Malleable Iron Range Property located in Beaver Dam, Wisconsin. Conditional closure of the site was granted by the WDNR. One of the conditions of closure was to provide documentation to the WDNR that all wells located at the site were properly abandoned. However, due to the age of some of the site monitoring wells and the fact that much of the site has undergone redevelopment, several monitoring wells were not able to be located and subsequently abandoned by Shaw. Therefore, Shaw is notifying you monitoring well G101 may still exist on the parcel owned by you (northern corner of Lot 9 on the attached map). You may be held liable for any problems associated with the lost well if a conduit for contaminants to enter groundwater is created. If, at any time the well is located, the WDNR must be notified, the well must be properly abandoned, and abandonment documentation must be forwarded to the WDNR. A partially completed abandonment form specific to the well located on your property has been attached for submittal to the WDNR in the event the well is located and abandoned. Only the yellow high-lighted portions need to be completed.

If you need more information or have any questions regarding the wells, you may contact me at 715-849-8986 or Denise Nettesheim, WDNR, at 608-275-3209 within thirty days from the date of this letter.

Sincerely,  
**Shaw Environmental, Inc.**

Victoria L. Loveland  
Engineer 3

cc: Ms. Denise Nettesheim, WDNR, 3911 Fish Hatchery Road, Fitchburg, WI 53711  
Mr. John Corey, Dodge County Corporate Counsel, 127 East Oak Grove Street, Juneau, WI 53039

NOTES:

1. Monitoring wells G101, G103, MW-27, and MW28 were not able to be located during well abandonment activities. If these wells are located at a later date, they need to be properly abandoned. All other wells have been abandoned.

2. Lot 9 is currently (2/19/08) owned by Dodge Central Credit Union, 106 East Main Street, Beaver Dam, WI 53916.

3. Lots 2 and 6 are currently owned by Castle Monarch, 609 North Spring Street, Beaver Dam, WI 53916.



NOTES:

1. Monitoring wells G101, G103, MW-27, and MW28 were not able to be located during well abandonment activities. If these wells are located at a later date, they need to be properly abandoned. All other wells have been abandoned.

2. Lot 9 is currently (2/19/08) owned by Dodge Central Credit Union, 106 East Main Street, Beaver Dam, WI 53916.

3. Lots 2 and 6 are currently owned by Castle Monarch, 609 North Spring Street, Beaver Dam, WI 53916.



WELL DETAIL INFORMATION SHEET

JOB NO. 1858

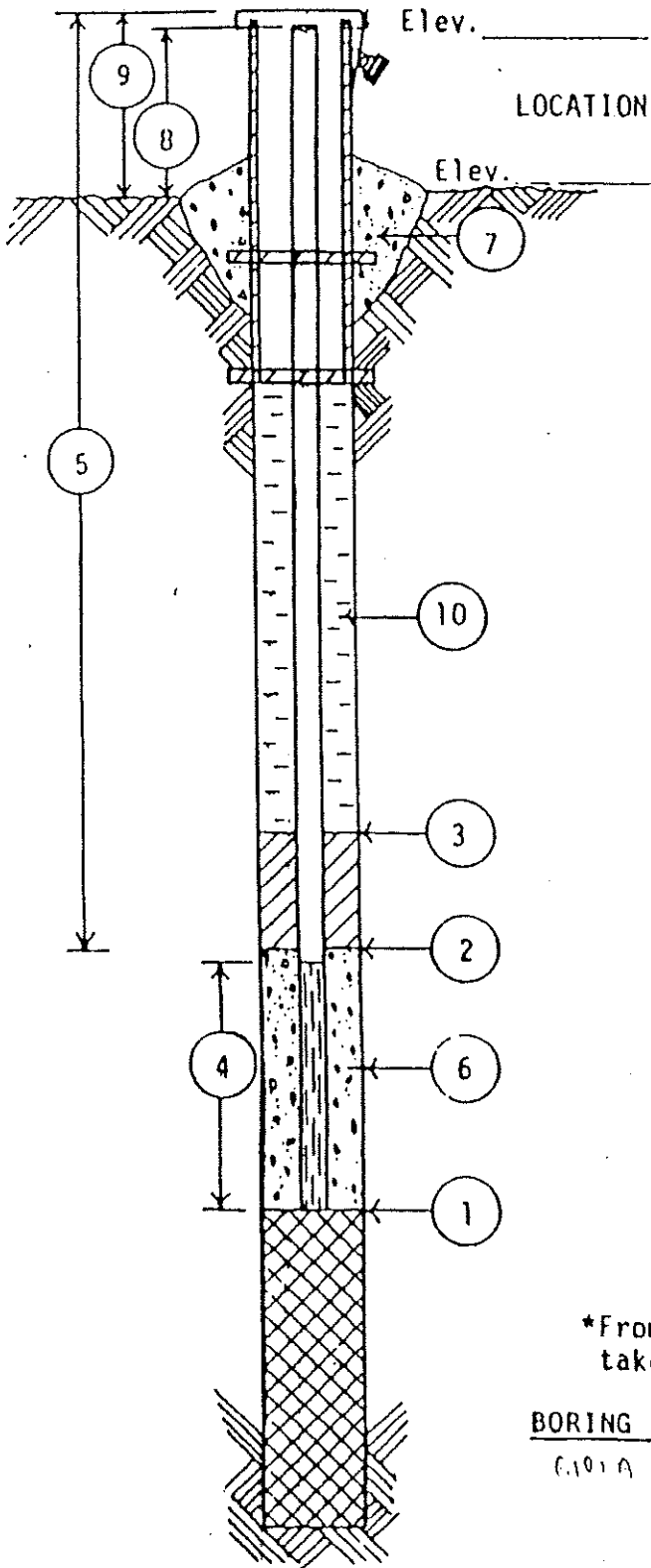
BORING NO. G101

DATE 8-15-89

CHIEF C.B.

LOCATION Monarch Plating - Beaver Dam, WI

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



- ① DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 18.8 18' 8" FEET.
- ② DEPTH OF BOTTOM OF SEAL (if installed) 9.8 9' 8" FEET.
- ③ DEPTH TO TOP OF SEAL (if installed) 7.8 7' 8" FEET.
- ④ LENGTH OF WELL POINT, PVC WELL SCREEN OR SLOTTED PIPE 5.0 FEET. (Circle One)
- ⑤ TOTAL LENGTH OF PIPE 14.8 FEET @ 2 IN. DIAMETER.
- ⑥ TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE #30 Flint Sand.
- ⑦ CONCRETE CAP,  YES  NO (Circle One)
- ⑧ HEIGHT OF WELL CASING ABOVE GROUND 1.0 FEET.
- ⑨ PROTECTIVE CASING?  YES  NO (Circle One)  
HEIGHT ABOVE GROUND 1.2  
LOCKING CAP?  YES  NO (Circle One)
- ⑩ TYPE OF BACKFILL: Hole Plug  
Quick Set Mortar Grout

WATER LEVEL CHECKS

\*From top of casing, if protective casing higher, take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS
G101A	8-15-89	-		

WELL DETAIL INFORMATION SHEET

JOB NO. 1858

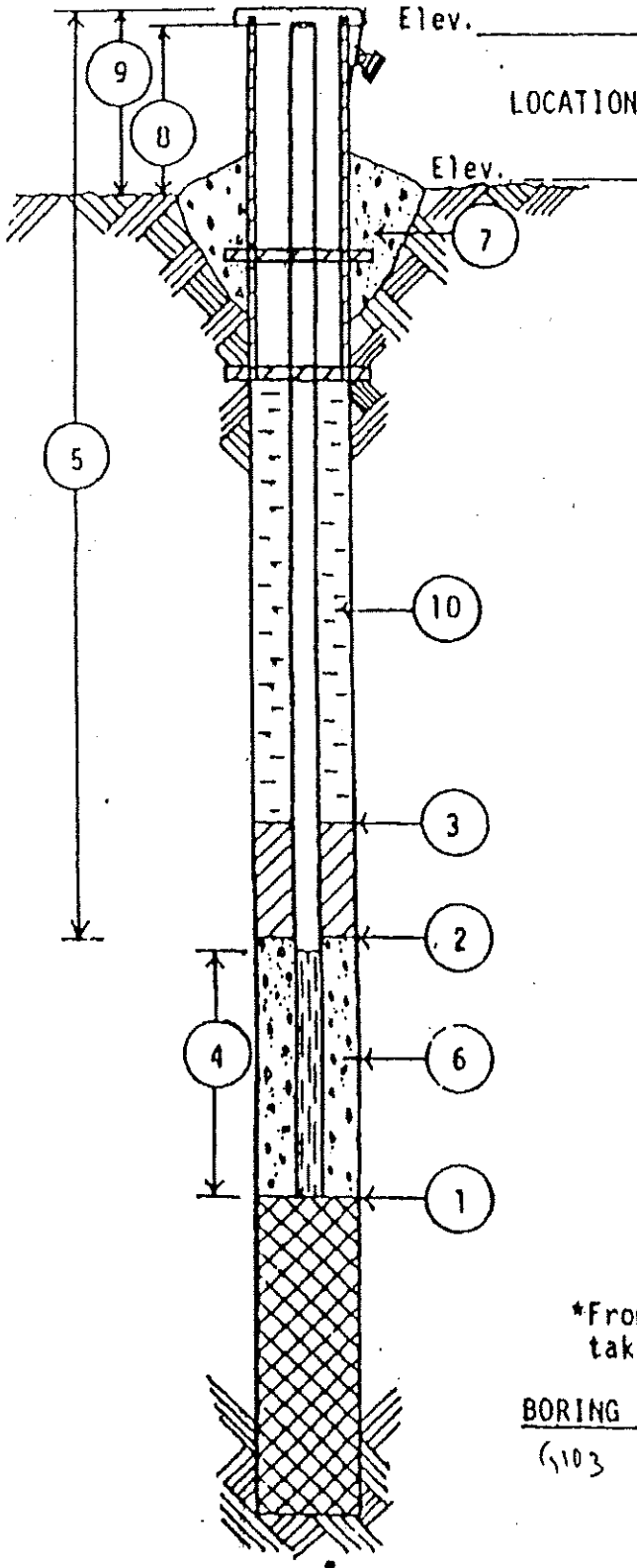
BORING NO. G103

DATE 8-15-89

CHIEF C.B.

LOCATION Monarch Plating - Beaver Dam, WI

All depth measurements of well detail assumed to be from ground surface unless otherwise indicated.



- ① DEPTH TO BOTTOM OF WELL POINT OR SLOTTED PIPE 17.8 FEET.
- ② DEPTH OF BOTTOM OF SEAL (if installed) 10.0 FEET.
- ③ DEPTH TO TOP OF SEAL (if installed) 8.5 8'6" FEET.
- ④ LENGTH OF WELL POINT, PVC WELL SCREEN, OR SLOTTED PIPE 5.0 FEET. (Circle One)
- ⑤ TOTAL LENGTH OF PIPE 13.8 FEET @ 2 IN. DIAMETER.
- ⑥ TYPE OF FILTER MATERIAL AROUND WELL POINT OR SLOTTED PIPE #30 Flint Sand.
- ⑦ CONCRETE CAP,  YES  NO (Circle One)
- ⑧ HEIGHT OF WELL CASING ABOVE GROUND 1.0 FEET.
- ⑨ PROTECTIVE CASING?  YES  NO (Circle One)  
HEIGHT ABOVE GROUND 1.3  
LOCKING CAP?  YES  NO (Circle One)
- ⑩ TYPE OF BACKFILL: Hole Plug

WATER LEVEL CHECKS

\*From top of casing, if protective casing higher, take measurement from top of protective casing.

BORING #	DATE	TIME	DEPTH TO WATER	REMARKS
G103	8-15-89	-	13'4"	

Facility/Project Name <u>M. I. R.</u>	Local Gnd Location of well <u>5000 ft</u> <input checked="" type="checkbox"/> N <input type="checkbox"/> S <input type="checkbox"/> E <input type="checkbox"/> W	Well Name <u>MW-27</u>
Facility License, Permit or Monitoring Number	Gnd Origin Location Lat. <u>43 27 52</u> Long. <u>88 50 00</u> or	Wis. Unique Well Number DNR Well Number
Type of Well Water Table Observation Well <input checked="" type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	St. Plane <u>4807.93</u> ft. N. <u>4729.56</u> ft. E.	Date Well Installed <u>11/17/92</u> m m d d y y
Distance Well Is From Waste/Source Boundary <u>UNKNOWN</u> ft.	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 33, T. 12 N., R. 14</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W.	Well Installed By: (Person's Name and Firm) <u>Chip Johnson</u> <u>Fluid Management, Inc.</u>
Is Well A Point of Enforcement Sta. Application? <u>UNKNOWN</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient: s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient: n <input checked="" type="checkbox"/> Not Known	

A. Protective pipe, top elevation	ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation	<u>826.40</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: <u>6.0</u> in. b. Length: <u>3.0</u> ft. c. Material: <u>Steel</u> <input checked="" type="checkbox"/> 04 <u>Other</u> <input type="checkbox"/>
C. Land surface elevation	<u>823.66</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal, bottom	ft. MSL or <u>5</u> ft.	3. Surface seal: <u>Bentonite</u> <input type="checkbox"/> 30 <u>Concrete</u> <input checked="" type="checkbox"/> 01 <u>Other</u> <input type="checkbox"/>
12. USCS classification of soil near screen: GP <input checked="" type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>		4. Material between well casing and protective pipe: <u>Bentonite</u> <input checked="" type="checkbox"/> 30 <u>Annular space seal</u> <input type="checkbox"/> <u>Other</u> <input type="checkbox"/>
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. <u>    </u> Lbs/gal mud weight... Bentonite-sand slurry <input type="checkbox"/> 35 c. <u>    </u> Lbs/gal mud weight... Bentonite slurry <input type="checkbox"/> 31 d. <u>    </u> % Bentonite... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1.3</u> Ft <sup>3</sup> volume added for any of the above f. How installed: <u>Tremie</u> <input type="checkbox"/> 01 <u>Tremie pumped</u> <input type="checkbox"/> 02 <u>Gravity</u> <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/>		6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input checked="" type="checkbox"/> 32 c. <u>    </u> Other <input type="checkbox"/>
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99		7. Fine sand material: Manufacturer, product name & mesh size a. <u>BEST -50</u> b. Volume added <u>.64</u> ft <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u>		8. Filter pack material: Manufacturer, product name and mesh size a. <u>BEST -20</u> b. Volume added <u>3.8</u> ft <sup>3</sup>
17. Source of water (attach analysis): <u>NA</u>		9. Well casing: <u>Flush threaded PVC schedule 40</u> <input checked="" type="checkbox"/> 23 <u>Flush threaded PVC schedule 30</u> <input type="checkbox"/> 24 <u>Other</u> <input type="checkbox"/>
E. Bentonite seal, top	ft. MSL or <u>4.0</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: <u>Factory cut</u> <input checked="" type="checkbox"/> 11 <u>Continuous slot</u> <input type="checkbox"/> 01 <u>Other</u> <input type="checkbox"/>
F. Fine sand, top	ft. MSL or <u>6.0</u> ft.	b. Manufacturer <u>Monoflex</u> c. Slot size: <u>0.010</u> in. d. Slotted length: <u>10.0</u> ft.
G. Filter pack, top	ft. MSL or <u>8.0</u> ft.	11. Backfill material (below filter pack): <u>None</u> <input checked="" type="checkbox"/> 14 <u>Other</u> <input type="checkbox"/>
H. Screen joint, top	ft. MSL or <u>10.0</u> ft.	
I. Well bottom	ft. MSL or <u>20.0</u> ft.	
J. Filter pack, bottom	ft. MSL or <u>20.0</u> ft.	
K. Borehole, bottom	ft. MSL or <u>20.2</u> ft.	
L. Borehole, diameter	<u>8 1/4</u> in.	
M. O.D. well casing	<u>2.38</u> in.	
N. I.D. well casing	<u>2.00</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.  
Signature: David Chip Johnson Firm: Fluid Management, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats. and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5,000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.

Facility/Project Name <u>M.I.R.</u>	Local Grid Location of well <u>5020</u> ft. <input checked="" type="checkbox"/> N <input type="checkbox"/> E <input type="checkbox"/> W	RELATIVE STATION <u>5000</u> ft. <input type="checkbox"/> E <input type="checkbox"/> W	Well Name <u>MW-24</u>
Facility License, Permit or Monitoring Number	Grid Origin Location Lat <u>43 27 52</u> Long. <u>86 50 00</u> or	St. Plane <u>4976.75</u> ft. N. <u>5095.46</u> ft. E.	Wis. Unique Well Number _____ DNR Well Number _____
Type of Well Water Table Observation Well <input type="checkbox"/> 11 Piezometer <input type="checkbox"/> 12	Section Location of Waste/Source <u>SE 1/4 of SW 1/4 of Sec. 33, T. 12 N., R. 12 W.</u> <input checked="" type="checkbox"/> E <input type="checkbox"/> W	Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input checked="" type="checkbox"/> Not Known	Date Well Installed <u>11/17/92</u> m m d d v v
Distance Well Is From Waste/Source Boundary <u>UNKNOWN</u> ft.	Is Well A Point of Enforcement Sta. Application? <u>UNKNOWN</u> <input type="checkbox"/> Yes <input type="checkbox"/> No	Well Installed By: (Person's Name and Firm) <u>Chip Johnson</u> <u>Fluid Management, Inc</u>	

A. Protective pipe, top elevation _____ ft. MSL	1. Cap and lock? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
B. Well casing, top elevation <u>892.69</u> ft. MSL	2. Protective cover pipe: a. Inside diameter: _____ <u>6.0</u> in. b. Length: _____ <u>2.0</u> ft. c. Material: _____ Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/> _____
C. Land surface elevation <u>899.98</u> ft. MSL	d. Additional protection? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If yes, describe: _____
D. Surface seal bottom _____ ft. MSL or <u>5</u> ft.	3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/> _____
12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input checked="" type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input type="checkbox"/> MH <input type="checkbox"/> CL <input type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/>	4. Material between well casing and protective pipe: Bentonite <input type="checkbox"/> 30 Annular space seal <input type="checkbox"/> _____ Other <input type="checkbox"/> _____
13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	5. Annular space seal: a. Granular Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight ... Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight ... Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite ... Bentonite-cement grout <input type="checkbox"/> 50 e. <u>1.5</u> Ft. <sup>3</sup> volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08
14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/> _____	6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input checked="" type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite pellets <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/> _____
15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99	7. Fine sand material: Manufacturer, product name & mesh size a. <u>BEST</u> b. Volume added <u>1.0</u> ft. <sup>3</sup>
16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Describe <u>NA</u>	8. Filter pack material: Manufacturer, product name and mesh size a. <u>BEST</u> b. Volume added <u>4.0</u> ft. <sup>3</sup>
17. Source of water (attach analysis): <u>NA</u>	9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/> _____
E. Bentonite seal, top _____ ft. MSL or <u>20</u> ft.	10. Screen material: <u>PVC</u> a. Screen type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> _____
F. Fine sand, top _____ ft. MSL or <u>30</u> ft.	b. Manufacturer <u>Mono Flex</u> c. Slot size: _____ <u>0.010</u> in. d. Slotted length: _____ <u>10.0</u> ft.
G. Filter pack, top _____ ft. MSL or <u>40</u> ft.	11. Backfill material (below filter pack): None <input type="checkbox"/> 14 Other <input type="checkbox"/> _____
H. Screen joint, top _____ ft. MSL or <u>50</u> ft.	
I. Well bottom _____ ft. MSL or <u>150</u> ft.	
J. Filter pack bottom _____ ft. MSL or <u>150</u> ft.	
K. Borehole, bottom _____ ft. MSL or <u>155</u> ft.	
L. Borehole, diameter <u>8 1/4</u> in.	
M. O.D. well casing <u>2.38</u> in.	
N. I.D. well casing <u>2.00</u> in.	

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature: David "Chip" N. Johnson Firm: Fluid Management, Inc.

Please complete both sides of this form and return to the appropriate DNR office listed at the top of this form as required by chs. 144, 147 and 160, Wis. Stats., and ch. NR 141, Wis. Ad. Code. In accordance with ch. 144, Wis. Stats., failure to file this form may result in a forfeiture of not less than \$10, nor more than \$5000 for each day of violation. In accordance with ch. 147, Wis. Stats., failure to file this form may result in a forfeiture of not more than \$10,000 for each day of violation. NOTE: Shaded areas are for DNR use only. See instructions for more information including where the completed form should be sent.