

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

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

BRRTS #: (No Dashes) PARCEL ID #: 020 0121272534B
ACTIVITY NAME: Door Co. Cooperative - Fertilizer Plant (99407080301) WTM COORDINATES: X: 44.793 Y: -87.47

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

- Closure Letter**
- Maintenance Plan** (if activity is closed with a land use limitation or condition (land use control) under s. 292.12, Wis. Stats.)
- Continuing Obligation Cover Letter** (for property owners affected by residual contamination and/or continuing obligations)
- Conditional Closure Letter**
- Certificate of Completion (COC)** (for VPLE sites)

SOURCE LEGAL DOCUMENTS

- Deed:** The most recent deed as well as legal descriptions, for the **Source Property** (where the contamination originated). Deeds for other, off-source (off-site) properties are located in the **Notification** section.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).
Figure #: N/A Title: Survey in the SE 1/4 of the SW 1/4 of Section 21, T27N, R25E, Town of Nasewaupée
- Signed Statement:** A statement signed by the Responsible Party (RP), which states that he or she believes that the attached legal description accurately describes the correct contaminated property.

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

Maps must be no larger than 11 x 17 inches unless the map is submitted electronically.

- Location Map:** A map outlining all properties within the contaminated site boundaries on a U.S.G.S. topographic map or plat map in sufficient detail to permit easy location of all parcels. If groundwater standards are exceeded, include the location of all potable wells within 1200 feet of the site.
Note: Due to security reasons municipal wells are not identified on GIS Packet maps. However, the locations of these municipal wells must be identified on Case Closure Request maps.
Figure #: 1 Title: Site Location Diagram (nearby potable well locations attached)
- Detailed Site Map:** A map that shows all relevant features (buildings, roads, individual property boundaries, contaminant sources, utility lines, monitoring wells and potable wells) within the contaminated area. This map is to show the location of all contaminated public streets, and highway and railroad rights-of-way in relation to the source property and in relation to the boundaries of groundwater contamination exceeding a ch. NR 140 Enforcement Standard (ES), and/or in relation to the boundaries of soil contamination exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Levels (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 2 Title: Site Diagram/Monitoring Well Locations
- Soil Contamination Contour Map:** For sites closing with residual soil contamination, this map is to show the location of all contaminated soil and a single contour showing the horizontal extent of each area of contiguous residual soil contamination that exceeds a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL) as determined under s. NR 720.09, 720.11 and 720.19.
Figure #: 2 Title: Groundwater Monitoring Well Location and Soil Excavation Area

BRRTS #:

ACTIVITY NAME: Door Co. Cooperative - Fertilizer Plant (99407080301)

MAPS (continued)

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

Figure #: 8 Title: Estimated Historical Metolachlor Vertical Extent Geologic Cross-Section A-A'

Figure #: Title:

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

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

Figure #: 6 Title: Groundwater Iso-Concentration Map (June 2011)

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

Figure #: 2A Title: Groundwater Contour Map (11/08/06)

Figure #: 2B Title: Groundwater Contour Map (05/23/07)

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

Tables must be no larger than 11 x 17 inches unless the table is submitted electronically. Tables must not contain shading and/or cross-hatching. The use of **BOLD** or *ITALICS* is acceptable.

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

Table #: 1 Title: Soil Remediation Closure Sampling

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

Table #: 2A Title: Groundwater Analytical Results

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

Table #: 1 & 2 Title: Groundwater Field Sampling Summary

IMPROPERLY ABANDONED MONITORING WELLS

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

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

- Not Applicable**

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

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

Figure #: Title:

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

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

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

BRRTS #:

ACTIVITY NAME: Door Co. Cooperative - Fertilizer Plant (99407080301)

NOTIFICATIONS

Source Property

Not Applicable

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

Off-Source Property

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

Not Applicable

- Letter To "Off-Source" Property Owners:** Copies of all letters sent by the Responsible Party (RP) to owners of properties with groundwater exceeding an Enforcement Standard (ES), and to owners of properties that will be affected by a land use control under s. 292.12, Wis. Stats.
Note: Letters sent to off-source properties regarding residual contamination must contain standard provisions in Appendix A of ch. NR 726.

Number of "Off-Source" Letters:

- Return Receipt/Signature Confirmation:** Written proof of date on which confirmation was received for notifying any off-source property owner.
- Deed of "Off-Source" Property:** The most recent deed(s) as well as legal descriptions, for all affected deeded **off-source** property(ies). This does not apply to right-of-ways.
Note: If a property has been purchased with a land contract and the purchaser has not yet received a deed, a copy of the land contract which includes the legal description shall be submitted instead of the most recent deed. If the property has been inherited, written documentation of the property transfer should be submitted along with the most recent deed.
- Certified Survey Map:** A copy of the certified survey map or the relevant section of the recorded plat map for those properties where the legal description in the most recent deed refers to a certified survey map or a recorded plat map. (lots on subdivided or platted property (e.g. lot 2 of xyz subdivision)).

Figure #:

Title:

- Letter To "Governmental Unit/Right-Of-Way" Owners:** Copies of all letters sent by the Responsible Party (RP) to a city, village, municipality, state agency or any other entity responsible for maintenance of a public street, highway, or railroad right-of-way, within or partially within the contaminated area, for contamination exceeding a groundwater Enforcement Standard (ES) and/or soil exceeding a Residual Contaminant Level (RCL) or a Site Specific Residual Contaminant Level (SSRCL).

Number of "Governmental Unit/Right-Of-Way Owner" Letters:



CORRESPONDENCE/MEMORANDUM

STATE OF WISCONSIN

Department of Agriculture, Trade and Consumer Protection

Bureau of Agrichemical Management
Environmental Quality Unit

Date: 8/3/2018
To: Wisconsin Department of Natural Resources
From: Mark McColloch, DATCP EQ Unit Supervisor
Re: Continuing Obligation Packet Processing – Off-Source Property Notification Clarification
Case Name: Door County Cooperative – Sturgeon Bay
DATCP Case Number: 99407080301
BRRTS Case Number: 02-15-547155

This memorandum has been prepared to clarify off-source property notification for the above referenced site at the request of WDNR staff processing the case closure package. The case was closed on March 6, 2014 with continuing obligations for 1) residual groundwater contamination, 2) residual soil contamination, and 3) structural impediments for existing building. The closure package reviewed by the Department of Agriculture, Trade and Consumer Protection (DATCP) included a completed GIS Registry Checklist (Form 4400-245 (R 8/11)) and attachments prepared by GEI Consultants (GEI) on behalf of Door County Cooperative (DCC).

The lateral extent of residual soil contamination shown on Figure 2 prepared by STS Consultants extends onto the adjacent parcel (7464 Y Inn Road) to the west. Off-site soil contamination shown on this figure was prepared based on results for sample #44 collected by DATCP in 1999 and a sample collected from on-site boring B-7 in 2000. Sample #44 was collected from the gravel road at an approximate depth of 4-inches below grade. Metolachlor (0.578 ppm) and pendimethalin (0.629 ppm) were detected at low concentrations in this off-site sample. Pesticides (simazine, metolachlor, and pendimethalin) were also detected at low concentrations in the sample collected within the upper one-foot at B-7. Total pesticide concentrations exceeded the generic site specific cleanup standard of 1.0 ppm in both shallow soil samples. However, off-source property notification for soil contamination was not included with the case closure package.

DATCP agrees with the professional judgement used by the consultant to prepare Figure 2. Off-site pesticide concentrations present in shallow soil at the time of closure may reflect field use rather than off-site migration. Additional investigation would be needed to document field use concentrations of pesticides present in soil. Because pesticides are likely used at the large agricultural field west of the road and the DCC property, off-site notification and additional investigation is not warranted.

The lateral extent of metolachlor and total nitrogen (nitrate/nitrite) exceeding the Enforcement Standard (ES) in groundwater is shown on Figure 6 (prepared by GEI). Monitoring results show that at the time of closure metolachlor exceeded the ES at on-site well MW-1. Perimeter wells indicate that metolachlor, is below the ES at the property line. The extent of nitrate/nitrite concentrations exceeding the ES was not identified during the investigation. Using dashed isoconcentration contours, GEI inferred that nitrate/nitrite exceeds the ES at off-site properties to the east (7400 STH 42/57), and at adjacent parcels to the west (7464 and 7482 Y Inn Road). However, off-source property notification for groundwater contamination was not included with the case closure package prepared by GEI.

The isoconcentration contour for nitrate/nitrite shown on Figure 6 seems reasonable, and DATCP agrees with the consultant's interpretation. In the absence of off-site wells, the lateral extent of nitrate/nitrite exceeding the ES cannot be verified. Additional investigation would be needed to verify off-site migration of nitrate/nitrite from the DCC property. Because the DCC property is adjacent to agricultural fields, and the use of fertilizers may contribute to the presence of nitrate/nitrate in groundwater beneath off-site properties, additional investigation in this agricultural use area is not warranted. DATCP is satisfied that the lateral extent of pesticides near the mix/load pad was identified following removal of contaminated soil from the source area. The DCC site will be listed on DNR's groundwater registry, which will provide notice to the public regarding residual groundwater contamination at the DCC property. Though off-site notification to adjacent property owners was not provided at the time of closure, the lateral extent of on and off-site groundwater contamination listed at the groundwater registry is currently available to all nearby property owners.



State of Wisconsin
Governor Scott Walker

Department of Agriculture, Trade and Consumer Protection

Ben Brancel, Secretary

March 6, 2014

Mr. Trent Allen
Door County Cooperative
317 Green Bay Rd
Sturgeon Bay, WI 54235

KEEP THIS DOCUMENT WITH YOUR PROPERTY RECORDS

Re: *Final Case Closure with Continuing Obligations*
Door County Cooperative, State Road 42/57, Sturgeon Bay, Wisconsin
DATCP Case #99407080301; BRRTS No. 02-15-547155

Dear Mr. Allen:

The Department of Agriculture, Trade and Consumer Protection (DATCP) considers the case referenced above closed with continuing obligations. No further investigation or remediation is required at this time. However, you and future property owners must comply with the continuing obligations as explained in this letter. Please read this letter closely to ensure that you understand the continuing obligations.

This final closure decision is based on the correspondence and data provided and is issued under ch. NR 726, Wis. Adm. Code. The DATCP Closure Committee reviewed the request for closure on June 13, 2013. The Closure Committee reviews environmental remediation cases for compliance with state laws and standards to maintain consistency in the closure of these cases. DATCP sent you a letter on June 19, 2013, notifying you of the committee's decision to grant closure with continuing obligations and requesting that you abandon the site monitoring wells. Documentation of the proper abandonment of the site monitoring wells was received by DATCP on January 29, 2014.

GIS Registry

This site will be listed on the Department of Natural Resources (DNR) Remediation and Redevelopment Program's internet accessible Geographic Information System (GIS) Registry. The GIS provides notice to the public of residual contamination and of any continuing obligations. This letter and information that was submitted with your closure request application will be included on the GIS in a PDF attachment. To review the case information on the GIS web page, visit the RR Sites Map page at <http://dnrmads.wi.gov/sl/?Viewer=RR Sites>

All case information is also on file in the DATCP office, located at 2811 Agriculture Drive, Madison, Wisconsin.

Closure Conditions and Continuing Obligations

1. Residual Groundwater Contamination (ch. NR 140, 812, Wis. Adm. Code) - Groundwater contamination greater than enforcement standards is present on this property, as shown on **Figure 6 of the GIS documents**.

DNR approval prior to well construction or reconstruction is required for all sites shown on the GIS, in accordance with s. NR 812.09(4) (w), Wis. Adm. Code. To obtain approval, submit Form

3300-254 to the DNR Drinking and Groundwater program's regional water supply specialist. This form can be obtained on-line at <http://dnr.wi.gov/topic/wells/documents/3300254.pdf>.

2. Residual Soil Contamination (ch. NR 718, chs. 500 to 536, Wis. Adm. Code or ch. 289, Wis. Stats.) - Soil contamination that exceeds the site-specific limits for nitrogen (100 mg/kg) is present at several locations as indicated on **Figure 2 of the GIS documents**. If soil in the locations indicated in these figures as exceeding site-specific standards will be excavated, prior to excavation the property owner must sample and analyze the soil to determine if nitrogen or pesticides are present. If present, the property owner must provide the sample results to DATCP and properly handle and dispose of the impacted soil in compliance with applicable standards and rules.
3. Structural Impediments (s. 292.12 (2) (b), Wis. Stats.) The presence of buildings and structures including the fertilizer and pesticide storage and handling structures, as shown on **Figure 2 of the GIS documents**, made complete investigation and remediation of the soil contamination on this area of the property impracticable. If these structural impediments are to be removed, the property owner shall notify DATCP before removal and conduct an investigation of the degree and extent of nitrogen and pesticide contamination below the structural impediments. If contamination is found at that time, the contamination shall be properly remediated in accordance with applicable statutes and rules.

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 nitrogen and/or pesticides or other contaminants on or from the site poses a threat to public health, safety, or welfare or to the environment.

If the case is re-opened, Agricultural Chemical Cleanup Program (ACCP) reimbursement may still be available. Determination of the ACCP eligibility of any future corrective action costs incurred at this site should be made before the corrective action is performed. It is in your best interest to keep all documentation related to the cleanup project and ACCP reimbursement applications.

DATCP 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 me at 608-224-4520.

Sincerely



Trevor Bannister
Hydrogeologist

cc: Paul Garvey, GEI
Chris Lettau, DATCP



State of Wisconsin
Governor Scott Walker

Department of Agriculture, Trade and Consumer Protection

Ben Brancel, Secretary

June 19, 2013

Mr. Trent Allen
Door County Cooperative
317 Green Bay Rd
Sturgeon Bay, WI 54235

Re: *Request for Monitoring Well Abandonment and GIS Document Preparation*
Door County Cooperative, State Road 42/57, Sturgeon Bay, Wisconsin
DATCP Case #99407080301

Dear Mr. Allen:

On June 13, 2013 our 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. In reviewing this case the committee determined that the case can be closed by listing it on the Department of Natural Resources (DNR) Geographic Information Systems Registry (GIS Registry) for closed remediation sites, due to residual soil and groundwater contamination. However, before the case can be closed, the following conditions must be met:

- Existing groundwater monitoring wells (MW-1, MW-2A & 2B, MW-3A & 3B, MW-4A & 4B & 4C, MW-5A & 5B, and MW-6A & 6B) must be abandoned, in accordance with ch. NR 141, Wis. Adm. Code, and appropriate documentation (DNR Form 3300-005) submitted to DATCP.
- Prepare a GIS Registry package that meets DNR requirements. Submit one paper copy and one electronic copy (PDF) to DATCP; and
- Submit GIS Registry fees. Payment of \$200 for soil listing and \$250 for groundwater listing (\$450 total) should be sent to Diane Hansen, Green Bay DNR Office, 2984 Shawano Ave, Green Bay, Wisconsin 54313.

Once these conditions have been met, we will issue a final closure letter. If you have any questions, please call me at (608) 224-4514.

Sincerely,

Trevor Bannister
Hydrogeologist

cc: Paul Garvey, GEI
Chris Lettau, DATCP

DOCUMENT NO.
398513

VOL **304** PAGE **330**

STATE BAR OF WISCONSIN—FORM 1
WARRANTY DEED
THIS SPACE RESERVED FOR RECORDING DATA
398513

REGISTER'S OFFICE }
DOOR COUNTY, WIS. } ss.

Received for Record the 2 day
of November A. D., 1977 at 9:00
o'clock A.M. and recorded in Vol. 304
of RECORDS Page 330
By Russell Meyer Reg. Dep.

THIS DEED, made between William Kipp, Jr. and
Carol Kipp, his wife
and Door County Cooperative
Grantor
Grantee,
Witnesseth, That the said Grantor for a valuable consideration

conveys to Grantee the following described real estate in Door County,
State of Wisconsin: A tract of land located in the South-
east Quarter of the Southwest Quarter (SE $\frac{1}{4}$ SW $\frac{1}{4}$) of
Section Twenty-One, Township Twenty-Seven (27)
North, Range Twenty-Five (25) East, Town of
Nasewaupsee, and described as follows:

Commencing at the South quarter corner of said Section 21, thence west
along the south line of said Section 21, 256.13 feet to its intersection
with the northerly right-of-way line of S.T.H. 42 & 57 and the point of
real beginning, thence continue west along said south line of Section 21,
43.87 feet, thence North 00 degrees 18 minutes 55 seconds West 1000.00
feet, thence east 300.00 feet to the east line of said SE $\frac{1}{4}$ of the SW $\frac{1}{4}$,
thence South 00 degrees 18 minutes 55 seconds East along said east line
of the SE $\frac{1}{4}$ of the SW $\frac{1}{4}$ 799.21 feet to the northerly right-of-way of S.T.H.
42 & 57, thence South 51 degrees 47 minutes 15 seconds West along said
northerly right-of-way line of S.T.H. 42 & 57 324.58 feet to the point
of real beginning.

Said tract contains 6.30 acres of land.

Together with all and singular the hereditaments and appurtenances thereto belonging or in any wise appertaining;
And William Kipp, Jr. and Carol Kipp, his wife
warrants that the title is good, indefeasible in fee simple and free and clear of encumbrances except

and will warrant and defend the same.

Executed at Sturgeon Bay, WI. this 7th day of November, 1977

SIGNED AND SEALED IN PRESENCE OF

William Kipp Jr (SEAL)
WILLIAM-KIPP, JR.
Carol Kipp (SEAL)
CAROL KIPP
(SEAL)
(SEAL)

Signatures of

authenticated this _____ day of _____, 19____.

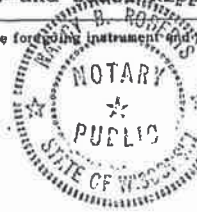
Title: Member State Bar of Wisconsin or Other Party
Authorized under Sec. 706.06 v.z.

STATE OF WISCONSIN
Door County, } ss.

Personally came before me, this 7th day of November, 1977,
the above named William Kipp, Jr. and Carol Kipp, his wife

to me known to be the person(s) who executed the foregoing instrument and acknowledged the same.

This instrument was drafted by
JAMES O. EBBESON
ATTORNEY AT LAW



Nancy B. Roberts
Nancy B. Roberts
Notary Public, Door County, Wis.

The use of witnesses is optional.

My Commission (Expires) 77 July 13, 1980

Names of persons signing in any capacity should be typed or printed below their signatures.

6457

Nearby Wells

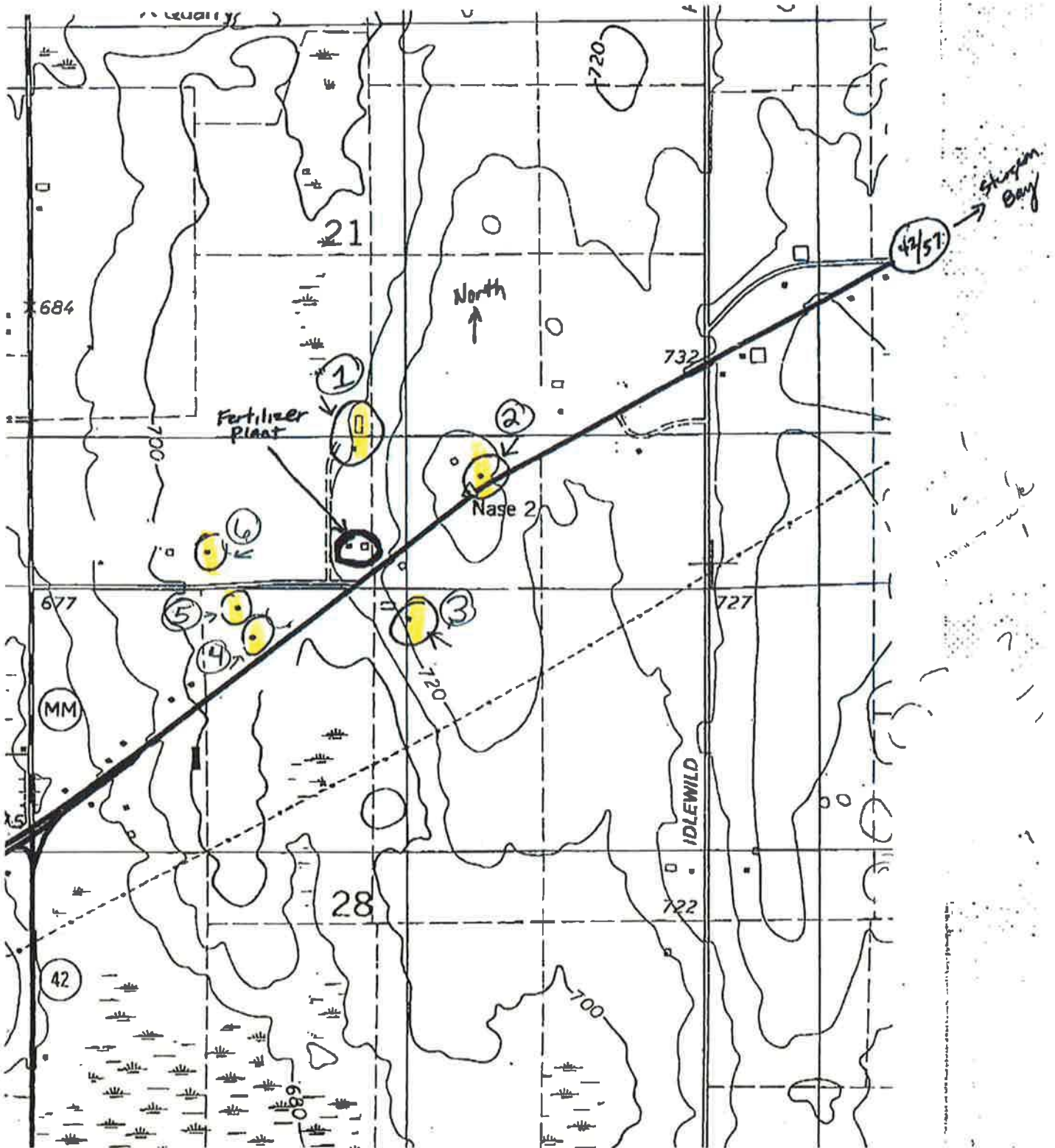
Paul -

Here is what I could gather regarding ownership of the properties surrounding our agronomy plant:

Site #

- * 1 - Karen Schultz 7464 Y - Inn Road, active well on site 600' N
- 2 - Orville Doell 7400 HWY 42 / 57, active well on site 900' NE
- 3 - Arlene Johnson (Lives in Illinois, camper on property) not known if well was removed or still in use. (Her son lives in Green Bay, Bob Rezik?) 700' SE
- 4 - Sherwood Weckler 7486 HWY 42 / 57, active well on site 900' SW
- * 5 - Lyon (do not have first name) 7501 Y - Inn Road, active well on site 850' SW
- 6 - Northeast Asphalt 7518 Y - Inn Road, house was removed last year but well still there with the pump in it but no power to it. Northeast originally bought the property to use as a quarry but the county will not allow it, so I don't know the future plans for the property. 1000' W

Faxed to
Paul Gandy
6/9/04



STATEMENT OF PROPERTY LEGAL DESCRIPTION

As required by s.NR 726.07(4)(f) of the Wisconsin Administrative Code, I am providing this signed statement that to the best of my knowledge the legal description(s) that are included in this submittal are complete and accurate for all the properties within or partially within the contaminated site's or facility's boundaries where inclusion on a Wisconsin Department of Natural Resources database is required as a condition of closure.

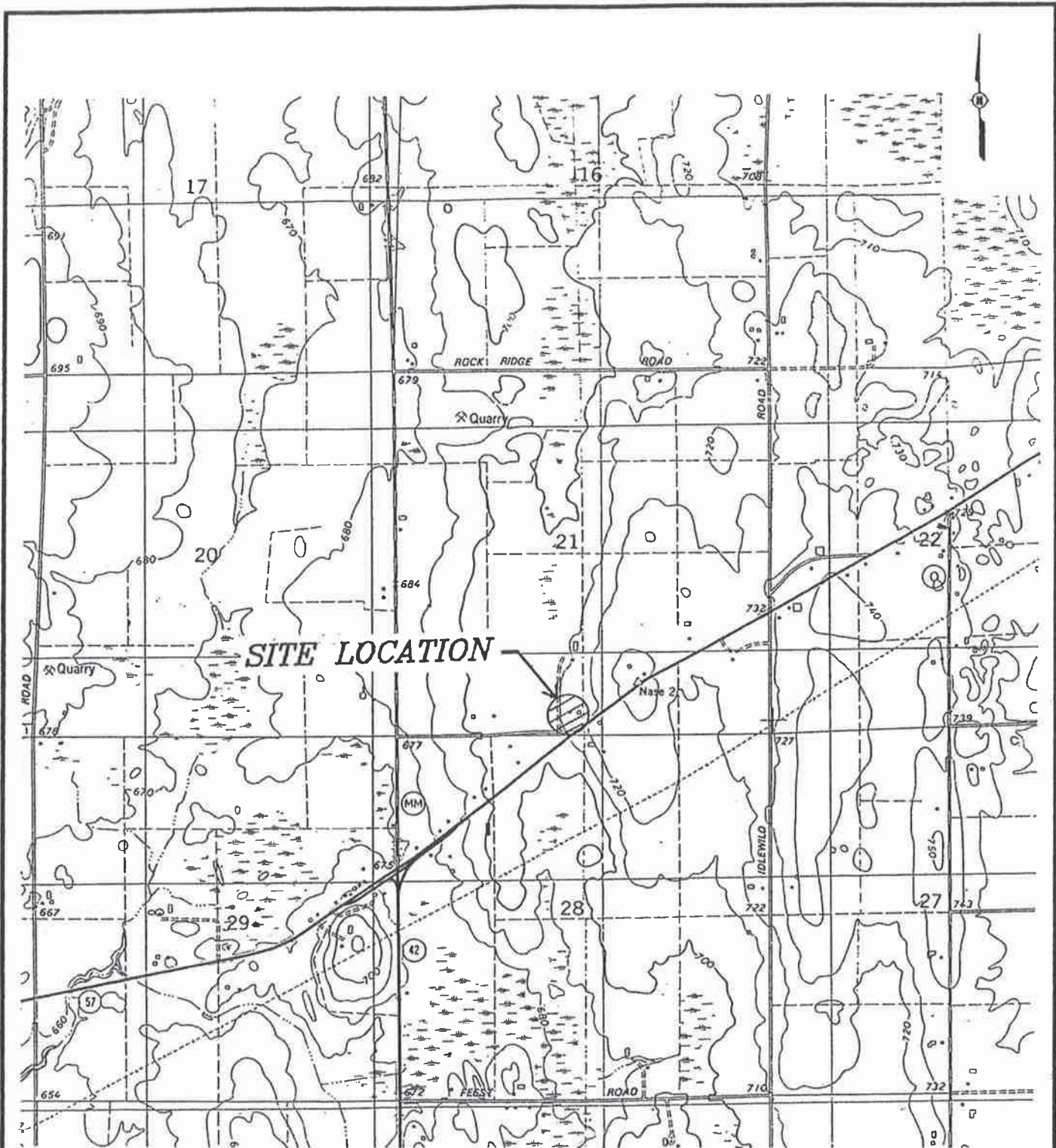
Sincerely,



President



*317 Green Bay Road
Sturgeon Bay, WI 54235
Ph. # 920-743-6555
Fax # 920-743-6743
Cell # 920-493-7458*



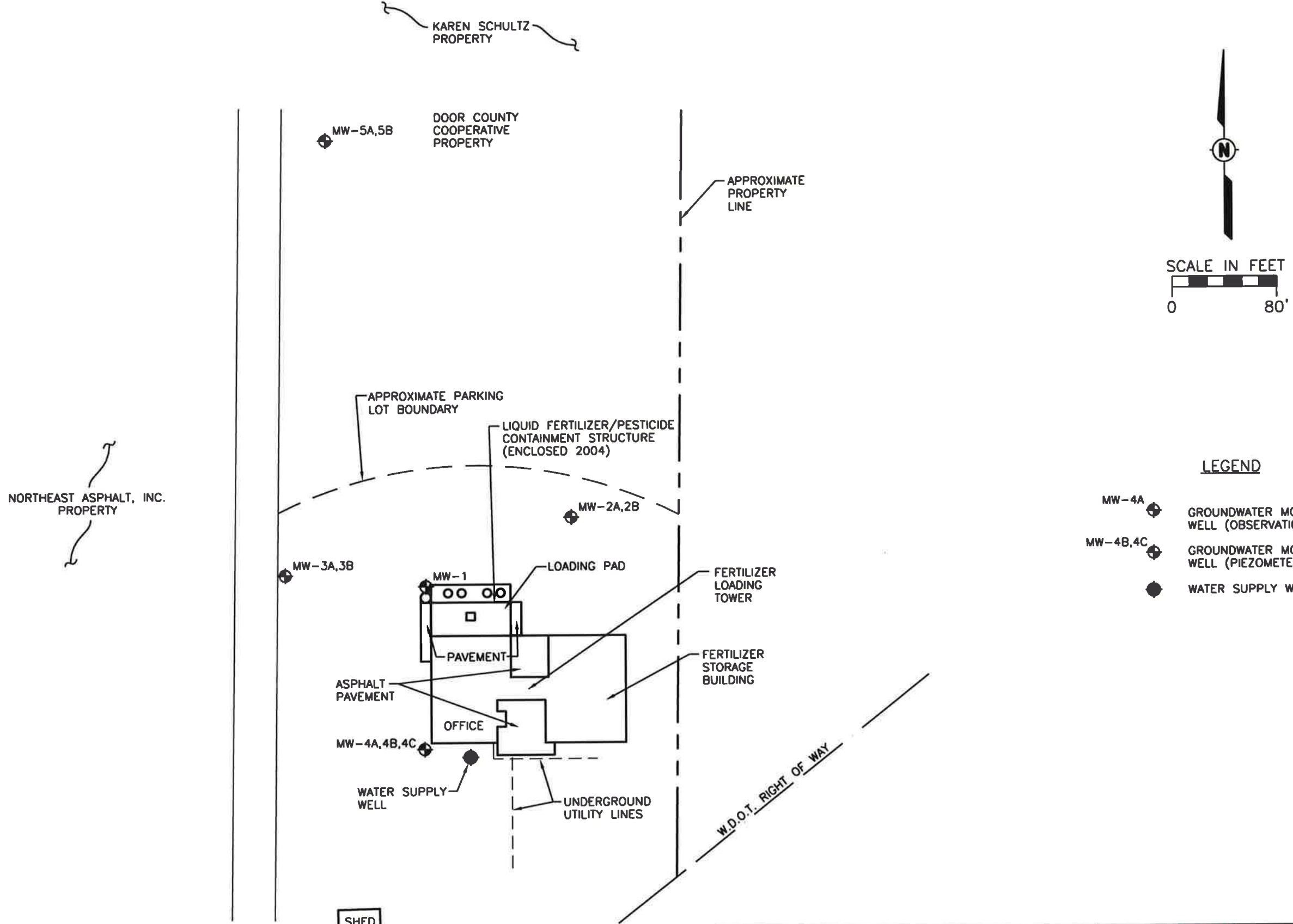
MAP SOURCE: MAP TAKEN FROM SURGEON BAY WEST, WIS. U.S.G.S. QUADRANGLE MAP DATED 1981.



STS Consultants Ltd
Consulting Engineers

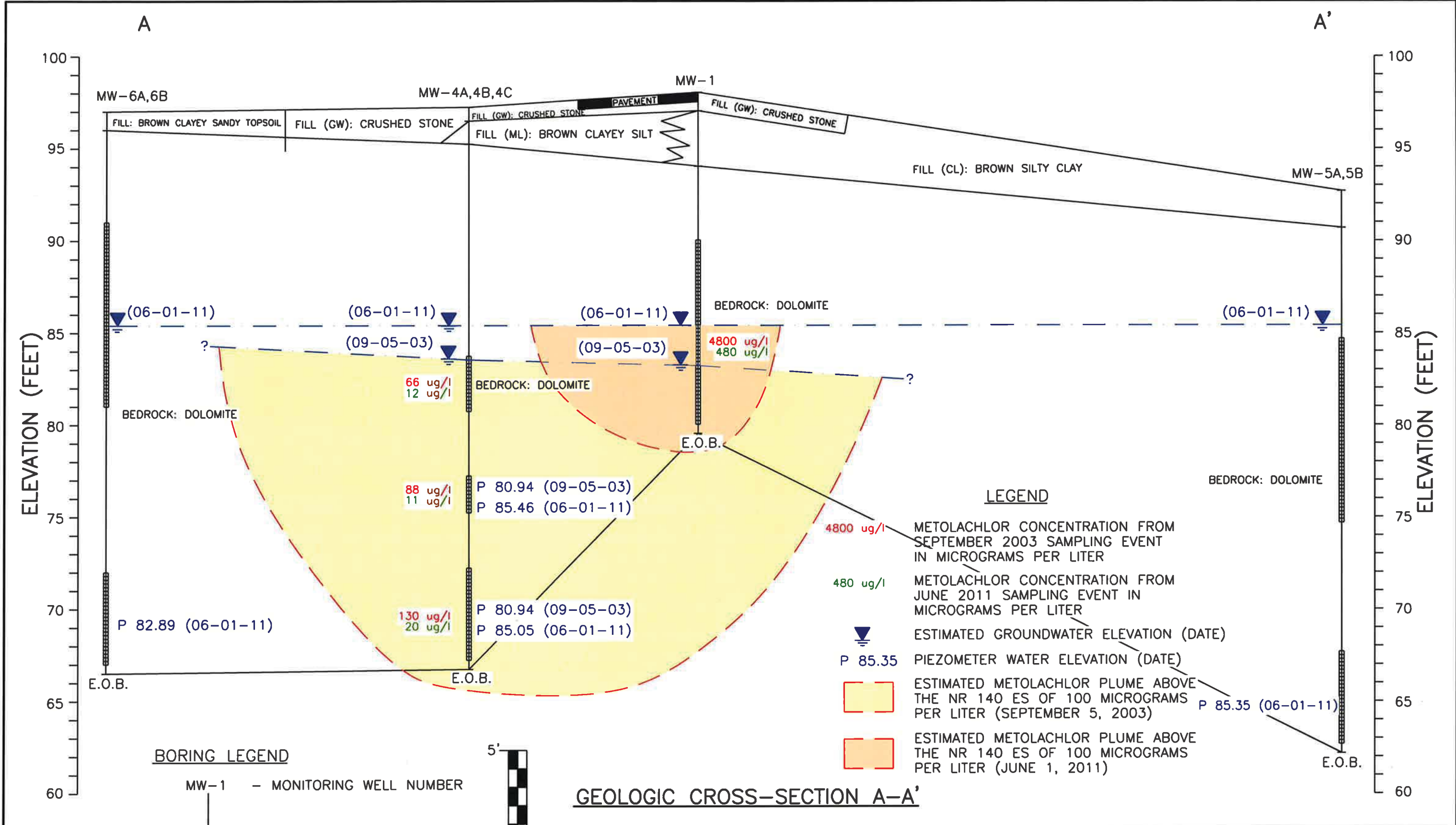
SITE LOCATION DIAGRAM
DOOR COUNTY COOPERATIVE
AGRICULTURAL SUPPLY FACILITY
SURGEON BAY, WISCONSIN

DRAWN BY	D.J.M.	1-20-00
CHECKED BY	P.M.G.	1-20-00
APPROVED BY		
CADFILE	SCALE	
...g4648001.dgn	1" = 2000'	
STS PROJECT NO.	FIGURE NO.	
25648AC	1	



- LEGEND**
- MW-4A GROUNDWATER MONITORING WELL (OBSERVATION WELL)
 - MW-4B,4C GROUNDWATER MONITORING WELL (PIEZOMETER WELL)
 - WATER SUPPLY WELL

Door County Cooperative 7460 STH 42 & 57 Sturgeon Bay, Wisconsin		SITE DIAGRAM/MONITORING WELL LOCATIONS	
		Project 111800	August 2011 Fig. 2



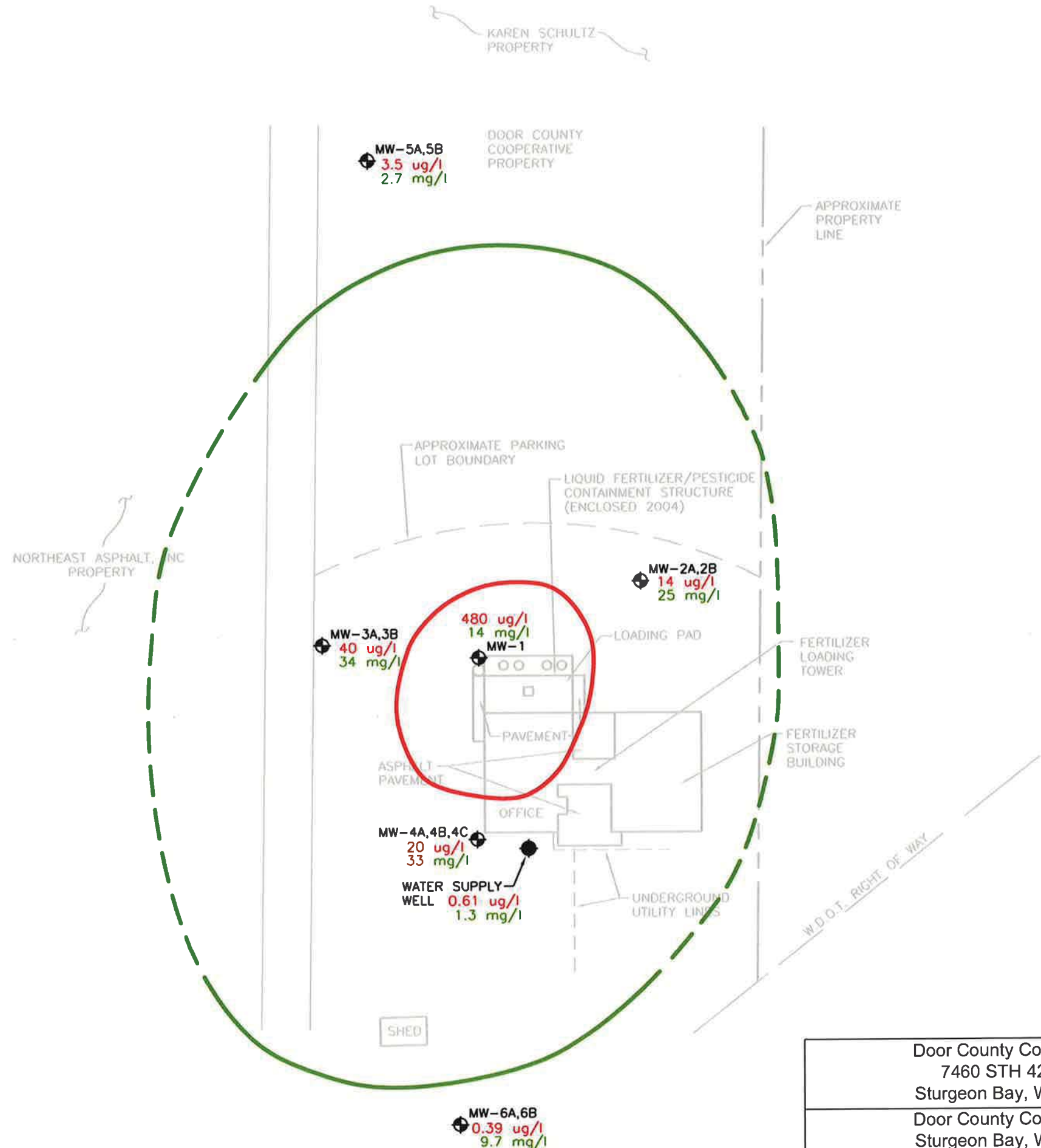
GEOLOGIC CROSS-SECTION A-A'

Door County Cooperative
 7460 STH 42 & 57
 Sturgeon Bay, Wisconsin
 Door County Cooperative
 Sturgeon Bay, Wisconsin



ESTIMATED HISTORICAL
 METOLACHLOR VERTICAL EXTENT
 GEOLOGIC CROSS-SECTION
 A-A'

Project 111800 September 2013 Fig. 8



MW-5A,5B
3.5 ug/l
2.7 mg/l

MW-3A,3B
40 ug/l
34 mg/l

MW-2A,2B
14 ug/l
25 mg/l

MW-1
480 ug/l
14 mg/l

MW-4A,4B,4C
20 ug/l
33 mg/l

WATER SUPPLY WELL
0.61 ug/l
1.3 mg/l

MW-6A,6B
0.39 ug/l
9.7 mg/l



LEGEND

- MW-4A ◈ GROUNDWATER MONITORING WELL (OBSERVATION WELL)
- MW-4B,4C ◈ GROUNDWATER MONITORING WELL (PIEZOMETER WELL)
- WATER SUPPLY WELL
- ESTIMATED METOLACHLOR CONCENTRATIONS IN EXCEEDANCE OF NR 140 WIS. ADM. CODE ENFORCEMENT STANDARD (NR 140 ES) OF 100 MICROGRAMS PER LITER
- ESTIMATED NITRATE/NITRITE NITROGEN (N+N) CONCENTRATIONS IN EXCEEDANCE OF NR 140 WIS. ADM. CODE ENFORCEMENT STANDARD (NR 140 ES) OF 10 MILLIGRAMS PER LITER
- 480 ug/l 14 mg/l METOLACHLOR AND N+N CONCENTRATION FROM JUNE 2011 SAMPLING EVENT (RED DENOTES METOLACHLOR CONCENTRATION IN MICROGRAMS PER LITER; GREEN DENOTES N+N IN MILLIGRAMS PER LITER)

Door County Cooperative
7460 STH 42 & 57
Sturgeon Bay, Wisconsin
Door County Cooperative
Sturgeon Bay, Wisconsin



GROUNDWATER
ISO-CONCENTRATION
MAP (JUNE 2011)

Project 111800 August 2011 Fig. 6

X:\PROJECTS\200606214\200606214_GW_Elev_fig-002B_06-07.dwg: 6/21/2007 10:09:42 AM; LEMMENS, JERRY R.

KAREN SCHULTZ PROPERTY

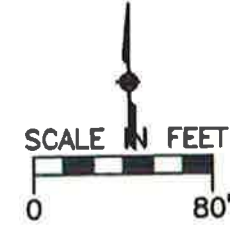
MW-5A (81.62)
MW-5B

DOOR COUNTY COOPERATIVE PROPERTY

APPROX. PROPERTY LINE

~ GRASS ~

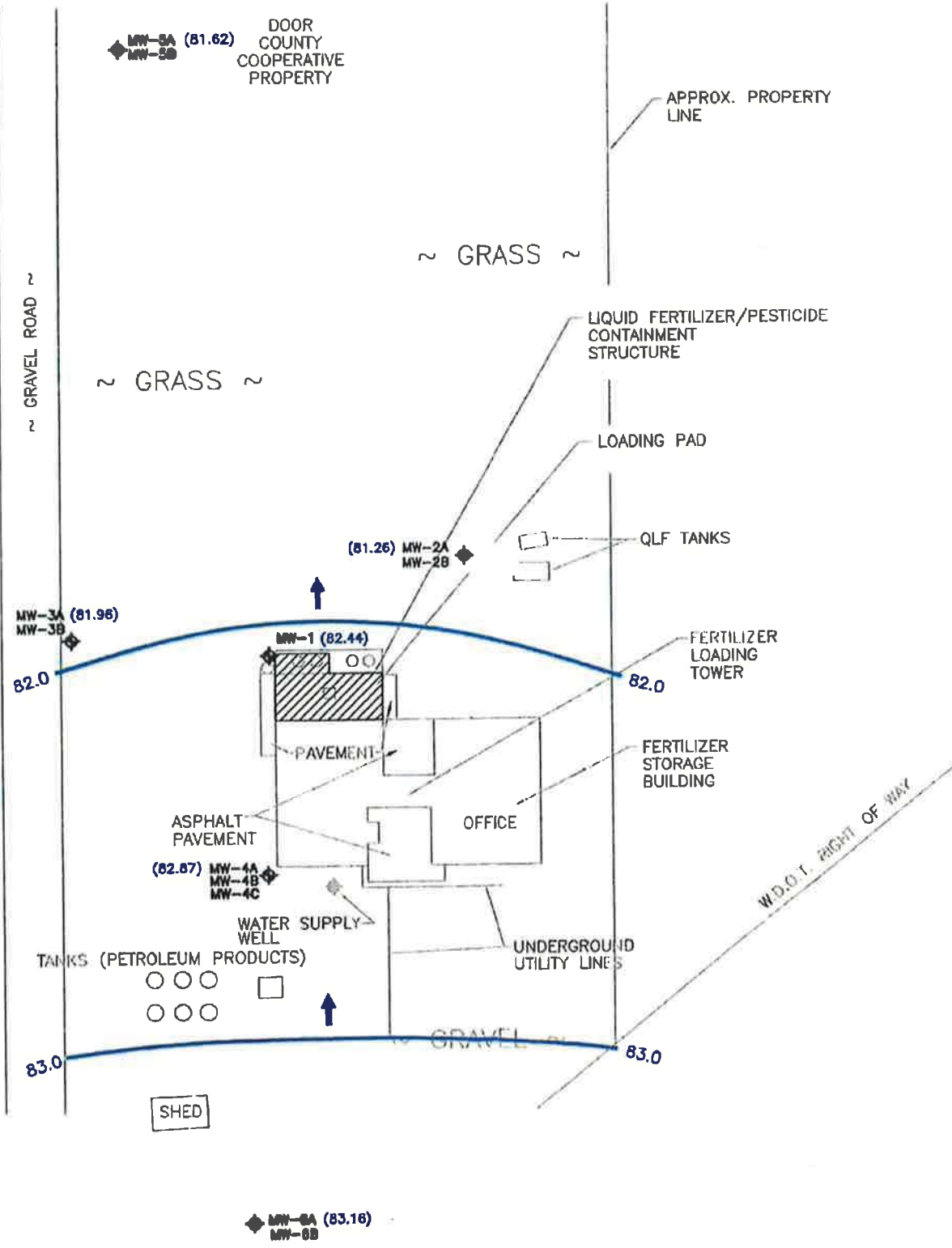
~ GRASS ~



LEGEND

- MW-4A ◆ GROUNDWATER MONITORING WELL (OBSERVATION WELL)
- MW-4B, 4C ◆ GROUNDWATER MONITORING WELL (PIEZOMETER WELL)
- (82.48) GROUNDWATER ELEVATION (FT.)
- 81 — ESTIMATED GROUNDWATER ELEVATION CONTOUR (FT.)
- ➔ ESTIMATED GROUNDWATER FLOW DIRECTION
- ▨ ENCLOSED LOADING/CONTAINMENT AREA (FALL 2004)
- ◆ WATER SUPPLY WELL

NORTHEAST ASPHALT, INC. PROPERTY



STC
STB CONSULTANTS
 1035 Kepler Drive
 Green Bay, Wisconsin 54311
 920-466-1978
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TB
1311
1, Ltd.

GROUNDWATER CONTOUR MAP (05/23/07)
 DOOR COUNTY COOPERATIVE
 7460 STH 42 & 57
 STURGEON BAY, WISCONSIN

Drawn:	JRL 06/28/2007
Checked:	PMG 08/28/2007
Approved:	
PROJECT NUMBER	200606214
FIGURE NUMBER	2B

37
37

Table 1
Soil Remediation Closure Sampling
Door County Cooperative, Sturgeon Bay, Wisconsin

Sample No.	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-13	S-14	SA-1	SA-2	SA-3	Suggested Regulatory Guideline	
Approximate Sample Depth - ft	1.0	1.0	1.0	1.0	2.5	2.0	1.5	2.5	1.5	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5		
Date Sampled	12/17/01	12/17/01	12/17/01	12/17/01	12/18/01	12/18/01	12/18/01	12/19/01	12/19/01	12/19/01	12/19/01	12/19/01	12/19/01	12/19/01	12/19/01	5/23/02	5/23/02	5/23/02	
Analyte	Units																		
Nitrogen-Nitrate/Nitrite	mg/kg	230	200	23	720	330	47	<3.9>	120	400	81	34	220	20	68	38	17	400	
Nitrogen-Ammonia	mg/kg	<2.0>	<2.4>	2400	<2.4>	850	240	<2.4>	<1.4>	7.8	<4.2>	40	640	<3.7>	<2.0>	5.9	6.9	180	
Total Nitrogen	mg/kg	230	200	2423	720	1180	287	<6.3>	120	407.8	81	74	860	20	68	43.9	23.9	580	100
Acetochlor	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	520	NA	ND	ND	ND	ND	
Atrazine	ug/kg	NA	NA	ND	NA	ND	51	<12>	ND	<12>	ND	230	<23>	NA	ND	ND	<12>	<11>	
Atrazine Desethyl	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Atrazine Desisopropyl	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Alachlor	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	<26>	ND	NA	ND	ND	ND	ND	
Butylate	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Chlorpyrifos	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	
Cyanazine	ug/kg	NA	NA	ND	NA	ND	<16>	<19>	ND	<15>	ND	<17>	<42>	NA	33	ND	21	22	
Dimethenamid	ug/kg	NA	NA	ND	NA	ND	34	ND	93	ND	ND	50	440	NA	ND	ND	ND	ND	
EPTC	ug/kg	NA	NA	ND	NA	43	190	ND	ND	ND	ND	<15>	ND	NA	ND	ND	ND	ND	
Metolachlor	ug/kg	NA	NA	ND	NA	<51>	8600	ND	680	270	200	380	14,000	NA	430	<31>	180	110	
Metribuzin	ug/kg	NA	NA	ND	NA	ND	<17>	ND	<11>	80	ND	ND	ND	NA	ND	ND	ND	ND	
Pendimethalin	ug/kg	NA	NA	ND	NA	ND	480	ND	ND	150	ND	190	790	NA	ND	ND	58	53	
Prometon	ug/kg	NA	NA	ND	NA	ND	<11>	ND	ND	ND	ND	<11>	ND	NA	ND	ND	ND	ND	
Propazine	ug/kg	NA	NA	ND	NA	ND	ND	ND	ND	ND	ND	ND	<25>	NA	ND	ND	ND	ND	
Simazine	ug/kg	NA	NA	ND	NA	ND	<26>	ND	ND	<23>	ND	450	ND	NA	ND	ND	<14>	ND	
Trifluralin	ug/kg	NA	NA	ND	NA	ND	ND	<25>	ND	ND	ND	110	<42>	NA	ND	ND	ND	150	
Total Pesticides	ppm	NA	NA	ND	NA	<1.0	9.42	<1.0	<1.0	<1.0	<1.0	1.45	15.88	NA	<1.0	<1.0	<1.0	<1.0	1.0

Notes:

< > = Results greater than the LOD but less than the LOQ and are within a region of "less-certain quantitation"

NA = Not Analyzed

ND = Not detected above method detection limit

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

ppm = parts per million

Table 1
Soil Analytical Results
Door County Cooperative
Sturgeon Bay, Wisconsin

Sample No.	Depth	B-1	B-2	B-3	B-3*	B-4	B-4	B-5	B-5	B-6	B-7	B-8	B-9	B-10	B-10*	B-11	B-12	B-13	B-14	B-14*	Suggested Regulatory Guideline
		5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	
Analyte	Units																				
Nitrogen-Nitrate/Nitrite	mg/kg	1400	<20	36	390	<20	100	430	<20	<20	<20	41	<20	<20	120	<20	<20	<20	<20	18	100
Nitrogen-Ammonia	mg/kg	<200	22	360	49	31	93	160	32	<20	75	86	<20	43	<12>	21	40	<20	<20	<6.6>	
Total Nitrogen	mg/kg	1400	22	396	439	31	193	590	32	ND	75	127	ND	43	132	21	40	ND	ND	24.6	
EPTC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0062	<0.1	<0.1	<0.1	<0.1	<0.0062	
Butylate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0063	<0.1	<0.1	<0.1	<0.1	<0.0063	
Trifluralin	mg/kg	<0.1	<0.1	<0.1	--	6.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	--	0.5	<0.1	<0.1	<0.1	--	
Atrazine Desethyl	mg/kg	<0.1	<0.1	<0.1	<0.0073	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0073	<0.1	<0.1	<0.1	<0.1	<0.0073	
Atrazine Desisopropyl	mg/kg	<0.1	<0.1	<0.1	<0.0054	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0054	<0.1	<0.1	<0.1	<0.1	<0.0054	
Prometon	mg/kg	<0.1	<0.1	<0.1	<0.011	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.011	<0.1	<0.1	<0.1	<0.1	<0.011	
Propazine	mg/kg	<0.1	<0.1	<0.1	<0.012	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.012	<0.1	<0.1	<0.1	<0.1	<0.012	
Atrazine	mg/kg	<0.1	<0.1	<0.1	0.028	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.021>	<0.1	<0.1	<0.1	<0.1	<0.0073	
Simazine	mg/kg	<0.1	<0.1	<0.1	<0.033>	0.45	<0.1	<0.1	0.12	<0.1	0.32	0.56	<0.1	<0.1	<0.02>	<0.1	<0.1	<0.1	<0.1	<0.015	
Acetochlor	mg/kg	<0.1	<0.1	<0.1	<0.0083	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0083	<0.1	<0.1	<0.1	<0.1	<0.0083	
Dimethenamid	mg/kg	<0.1	<0.1	<0.1	<0.0053	<0.1	2	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0053	<0.1	<0.1	<0.1	<0.1	<0.0053	
Alachlor	mg/kg	<0.1	<0.1	<0.1	<0.026	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.2	<0.1	<0.1	<0.026	<0.1	<0.1	<0.1	<0.1	<0.026	
Metribuzin	mg/kg	<0.1	<0.1	<0.1	<0.0091	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.061	<0.1	<0.1	<0.1	<0.1	<0.0091	
Metolachlor	mg/kg	<0.1	<0.1	<0.1	<0.026	7.0	27	<0.1	<0.1	<0.1	0.68	0.52	<0.1	<0.1	<0.026	0.32	5.1	<0.1	<0.1	<0.026	
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.0066	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.0066	<0.1	<0.1	<0.1	<0.1	<0.0066	
Pendimethalin	mg/kg	<0.1	<0.1	<0.1	<0.022	1.6	<0.1	<0.1	<0.1	<0.1	0.23	0.36	<0.1	<0.1	<0.022	<0.1	1.2	<0.1	<0.1	<0.022	
Cyanazine	mg/kg	<0.1	<0.1	<0.1	<0.016>	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.25	<0.1	<0.1	0.04	<0.1	<0.1	<0.1	<0.1	<0.0079	
2,4-D	mg/kg	--	--	--	--	--	--	--	<73*	--	--	--	--	--	--	--	--	--	--	--	
Dicamba	mg/kg	--	--	--	--	--	--	--	<21*	--	--	--	--	--	--	--	--	--	--	--	
Total Pesticides	mg/kg	ND	ND	ND	0.077	15.15	29	ND	0.12	ND	1.23	1.89	ND	ND	0.142	0.82	6.3	ND	ND	ND	1.0

Notes:

"<" = analyte not detected above method detection limit

<> = Results greater than the LOD but less than the LOQ and are within a region of "less-certain quantitation"

ND = Not detected above method detection limit

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

 Regulatory Guideline Exceedances

*Confirmatory sample analyzed at a fixed laboratory

Table 1
Soil Analytical Results
Door County Cooperative
Sturgeon Bay, Wisconsin

Sample No.	Depth	B-15	B-16	B-17	B-18	B-19	B-20	B-21	B-22	B-23	B-24	B-25	B-26	B-39	B-40	B-43	B-43	B-45	Suggested Regulatory Guideline
		5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	5/23/00	
Analyte	Units																		
Nitrogen-Nitrate/Nitrite	mg/kg	<20	<20	<20	<20	<20	340	<20	--	--	<20	<20	<20	350	<20	<20	<20	<20	
Nitrogen-Ammonia	mg/kg	<20	120	<20	28	52	210	<20	--	--	<20	<20	<20	110	<20	140	<20	59	
<i>Total Nitrogen</i>	<i>mg/kg</i>	<i>ND</i>	<i>120</i>	<i>ND</i>	<i>28</i>	<i>52</i>	<i>550</i>	<i>ND</i>	<i>--</i>	<i>--</i>	<i>ND</i>	<i>ND</i>	<i>ND</i>	<i>460</i>	<i>ND</i>	<i>140</i>	<i>ND</i>	<i>59</i>	<i>100</i>
EPTC	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Butylate	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Trifluralin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Atrazine Desethyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Atrazine Desisopropyl	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Prometon	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Propazine	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Atrazine	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Simazine	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Acetochlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Dimethenamid	mg/kg	<0.1	0.72	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	0.12	
Alachlor	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Metribuzin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Metolachlor	mg/kg	<0.1	4.4	<0.1	<0.1	<0.1	--	--	0.11	<0.1	--	--	--	0.25	<0.1	<0.1	<0.1	0.84	
Chlorpyrifos	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
Pendimethalin	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	0.12	<0.1	<0.1	<0.1	
Cyanazine	mg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	--	--	<0.1	<0.1	--	--	--	<0.1	<0.1	<0.1	<0.1	<0.1	
2,4-D	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<75*	--
Dicamba	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<21*	--
<i>Total Pesticides</i>	<i>mg/kg</i>	<i>ND</i>	<i>5.12</i>	<i>ND</i>	<i>ND</i>	<i>ND</i>	<i>--</i>	<i>--</i>	<i>0.11</i>	<i>ND</i>	<i>--</i>	<i>--</i>	<i>--</i>	<i>0.25</i>	<i>0.12</i>	<i>ND</i>	<i>ND</i>	<i>0.96</i>	<i>1.0</i>

Notes:

"<" = analyte not detected above method detection limit

<> = Results greater than the LOD but less than the LOQ and are within a region of "less-certain quantitation"

ND = Not detected above method detection limit

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

Regulatory Guideline Exceedances

*Confirmatory sample analyzed at a fixed laboratory

Table 1
 Summary of Soil Sample Analysis and Sample Location
 Door County Cooperative
 Sturgen Bay, Wisconsin

Sample ID	N+N	Ammon	Acetochlor	Atrazine	Cyanazine	Dimethanamid	Metolachlor	Pendimethalin	Simazine	Trifluralin	2,4-D	Dicamba
407-6039	160	47.2	<0.10	0.306	<0.10	<0.10	0.833	<0.10	<0.10	<0.10	<0.10	<0.10
407-6040	20.8	<5.0	<0.10	0.382	<0.10	<0.10	1.74	2.16	2.28	2.32	<0.10	<0.10
407-6041	280	1410	2.51	3.05	0.727	<0.10	18.7	5.45	0.362	<0.10	4.35	0.409
407-6042	189	<5.0	<0.10	<0.10	<0.10	<0.10	1.14	0.239	<0.10	<0.10	<0.10	<0.10
407-6043	13	5630	<0.10	0.562	0.249	0.416	12.3	1.59	<0.10	0.26	<0.10	0.357
407-6044	43	<5.0	<0.10	<0.10	<0.10	<0.10	0.578	0.629	<0.10	<0.10	<0.10	<0.10
407-6045	152	515	<0.10	<0.10	<0.10	0.11	8.19	<0.10	<0.10	<0.10	<0.10	2.52

All results expressed in parts per million (PPM)

N+N = N-Nitrate/Nitrite

Ammon = N-Ammonia/Ammonium

- 407-6039 Soil sample collected from a depth of 0"-to-7" from area near fertilizer load pit off of the southwest corner of fertilizer building.
 407-6040 Soil sample collected from a depth of 0"-to-4" from 5-feet southwest of loading pad extension.
 407-6041 Soil sample collected from a depth of 0"-to-4" from 21 feet west of the loading pad/facility.
 407-6042 Soil sample collected from a depth of 8"-to-16" from 175 feet northwest of the bulk liquid fertilizer containment structure.
 407-6043 Soil sample collected from surface from 5 feet south of burn pile.
 407-6044 Soil sample collected from a depth of 0"-to-4" from 140 feet southwest of loading pad.
 407-6045 Soil sample collected from a depth of 8"-to-16" in the same boring as 407-6041.

**Table 2A
Groundwater Analytical Results
Door County Cooperative - Agricultural Supply Facility
Sturgeon Bay, Wisconsin**

Sample ID	Date	Analyte	Nitrogen-Ammonia	Nitrogen-Nitrate/Nitrite	Acetochlor	Atrazine	Desethylatrazine	Desisopropylatrazine	Alachlor	Butylate	Chloropyrifos	Cyanazine	Dimethenamid	EPTC	Metolachlor	Metribuzin	Pendimethalin	Prometon	Propazine	Simazine	Trifluralin
		Units	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Supply Well	2-Jun-11		[0.060]	1.3	<0.62	<0.048	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	<0.036	<0.032	0.61	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
MW-1	2-Jun-11		0.68	14	<0.62	0.59	0.36	0.20	1.0	<0.037	<0.045	0.83	3.4	0.29	480	0.33	<0.075	<0.039	<0.043	<0.056	<0.047
	5-Apr-12		-	-	<0.062	0.3	0.28	<0.026	[0.33]	<0.037	<0.045	0.23	1.1	[0.064]	190	[0.13]	[0.15]	<0.039	<0.043	<0.056	0.59
MW-2A	2-Jun-11		150	25	<0.62	0.33	<0.035	<0.026	0.71	<0.037	<0.045	0.18	<0.036	2.7	14	<0.050	<0.075	0.66	<0.043	<0.056	<0.047
MW-2B	2-Jun-11		0.99	38	<0.62	0.23	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	<0.036	<0.032	3.3	<0.050	<0.075	<0.039	<0.043	0.21	<0.047
MW-3A	2-Jun-11		1.1	23	<0.62	0.20	0.25	0.19	<0.11	<0.037	<0.045	0.30	7.2	<0.032	30	<0.050	<0.075	<0.039	<0.043	0.25	<0.047
MW-3B	2-Jun-11		0.87	34	<0.62	0.27	0.29	0.21	<0.11	<0.037	<0.045	0.29	7.0	<0.032	40	<0.050	<0.075	1.6	<0.043	0.24	<0.047
MW-4A	2-Jun-11		13	32	<0.62	0.25	0.20	<0.026	<0.11	<0.037	<0.045	0.23	<0.036	0.27	12	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
MW-4B	2-Jun-11		0.19	22	<0.62	0.24	0.19	<0.026	<0.11	<0.037	<0.045	0.25	0.23	<0.032	11	0.18	<0.075	<0.039	<0.043	<0.056	<0.047
MW-4C	2-Jun-11		2.3	33	<0.62	0.43	0.22	<0.026	<0.11	<0.037	<0.045	0.42	0.45	0.19	20	<0.050	<0.075	[0.065]	<0.043	0.22	<0.047
MW-5A	2-Jun-11		0.085	3.6	<0.62	<0.048	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	<0.036	<0.032	[0.46]	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
MW-5B	2-Jun-11		[0.056]	2.7	<0.62	<0.048	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	0.17	<0.032	3.5	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
MW-6A	2-Jun-11		0.52	9.7	<0.62	<0.048	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	<0.036	<0.032	[0.39]	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
MW-6B	2-Jun-11		0.18	0.69	<0.62	<0.048	<0.035	<0.026	<0.11	<0.037	<0.045	<0.042	<0.036	<0.032	[0.20]	<0.050	<0.075	<0.039	<0.043	<0.056	<0.047
NR 140		ES	-	10	7	3	3	3	2	400	2	1	50	250	100	250	-	100	10	4	7.5
NR 140		PAL	-	2	0.7	0.3	0.3	0.3	0.2	80	0.4	0.1	5	50	10	50	-	20	2	0.4	0.75

Notes:
 Values in brackets represent results greater than the "Limit of Detection" but less than the "Limit of Quantitation"
 < = Not detected above method detection limit
 mg/L = milligrams per liter
 ug/L = micrograms per liter
120 Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) Exceedance
120 Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL) Exceedance (in bold print)

Table 2
Field Sampling Summary
Door County Cooperative
7460 STH 42 57
Sturgeon Bay, Wisconsin

Location	Date	TPVC Elevation	Water Level TPVC	Water Level Elev. (ft)	Color	Turbidity	Gallons Purged
MW-1	1-Jun-11	100.62	15.45	85.17	Lt. Brown	Slight	6.0
MW-2A	1-Jun-11	97.58	12.07	85.51	Clear	None	2.5
MW-2B	1-Jun-11	97.40	11.21	86.19	Clear	None	2.5
MW-3A	1-Jun-11	92.41	6.93	85.48	Clear	None	3.0
MW-3B	1-Jun-11	92.25	6.90	85.35	Clear	None	3.0
MW-4A	1-Jun-11	96.92	11.44	85.48	Clear	None	3.0
MW-4B	1-Jun-11	96.88	11.42	85.46	Clear	Slight	2.5
MW-4C	1-Jun-11	96.80	11.75	85.05	Lt. Brown	Slight	3.0
MW-5A	1-Jun-11	95.10	9.59	85.51	Clear	None	2.5
MW-5B	1-Jun-11	95.10	9.75	85.35	Clear	None	2.5
MS-6A	1-Jun-11	99.35	13.99	85.36	Clear	None	2.5
MW-6B	1-Jun-11	99.24	16.35	82.89	Lt. Grey	Slight	2.5
Notes:							

**Table 2
Groundwater Analytical Results
Door County Cooperative
Sturgeon Bay, Wisconsin**

	Analyte	Nitrogen-Nitrate/Nitrite mg/L	Nitrogen-Ammonia mg/L	Acetochlor ug/L	Atrazine ug/L	Desethyl-atrazine ug/L	Desisopropyl-atrazine ug/L	Alachlor ug/L	Butylate ug/L	Cyanazine ug/L	Chlorpyrifos ug/L	Dimethenamid ug/L	EPTC ug/L	Metolachlor ug/L	Metribuzin ug/L	Pendimethalin ug/L	Prometon ug/L	Propazine ug/L	Simazine ug/L	Trifluralin ug/L	
On Site Water Supply Well	05/23/00	0.06	<0.007	18	30	<0.2	<0.096	[0.48]	NA	1.6	<0.19	2.7	2.1	140	[0.42]	<0.53	<0.22	<0.21	14	NA	
	06/23/00	--	--	1.0	[0.28]	<0.099	<0.048	<0.23	NA	<0.18	<0.096	[0.16]	[0.12]	4.9	<0.20	<0.26	<0.11	<0.10	[0.29]	NA	
	06/06/02	1.1	<0.025	0.27	0.39	<0.033	<0.058	<0.11	NA	0.15	<0.049	<0.091	<0.033	3.9	<0.05	<0.055	<0.055	<0.052	[0.19]	NA	
	09/05/03	1.3	<0.024	<0.066	[0.089]	<0.033	<0.058	<0.11	NA	<0.041	<0.049	<0.091	<0.033	[0.68]	<0.05	<0.055	<0.055	<0.052	<0.1	NA	
	12/19/03	<0.05	<0.024	<0.087	[0.077]	<0.054	<0.043	<0.053	NA	<0.034	<0.039	<0.055	<0.029	[0.36]	<0.032	<0.056	<0.048	<0.051	<0.067	NA	
	07/19/05	0.59	[0.03]	<0.038	<0.068	<0.079	<0.044	<0.085	<0.027	<0.11	<0.030	<0.051	<0.043	<0.22	<0.045	<0.072	<0.083	<0.049	<0.11	<0.030	
	01/25/06	<0.025	[0.025]	<0.062	[0.12]	<0.035	<0.026	<0.011	<0.037	<0.042	<0.045	<0.036	<0.032	[0.31]	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
	11/08/06	[0.045]	<0.025	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	<0.17	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
	05/23/07	1.6	<0.025	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	[0.17]	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
Schultz Well	06/29/04	7.7	<0.025	<0.087	<0.037	<0.054	<0.043	<0.053	<0.031	<0.034	<0.039	<0.055	<0.029	<0.21	<0.032	<0.056	<0.048	<0.051	<0.067	<0.036	
	01/25/06	11	[0.037]	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	[0.28]	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
	11/08/06	7.1	<0.025	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	<0.17	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
	05/23/07	7.3	[0.063]	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	<0.17	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
Lyon Well	06/29/04	3.2	<0.025	<0.087	[0.12]	<0.054	<0.043	<0.053	<0.031	<0.034	<0.039	<0.055	<0.029	0.97	<0.032	<0.056	<0.048	<0.051	<0.067	<0.036	
	01/25/06	2.5	<0.025	<0.062	[0.14]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	0.88	<0.050	<0.075	<0.039	<0.043	<0.056	<0.036	
MW-1	06/06/02	37	21	6.2	15	0.52	0.63	5.1	NA	6.8	<0.049	29	5	950	3.2	3.4	1.9	1.5	19	NA	
	09/05/03	200	54	39	70	3.0	<0.58	31	NA	32	<0.49	110	21	4800	12	4.6	<0.55	6.2	15	NA	
	12/19/03	34	22	4.8	6.5	0.31	<0.043	4.1	NA	3.3	<0.039	10	5.2	530	1.5	6.2	<0.048	0.87	1.9	NA	
	06/29/04	28	4.5	3.2	4.3	<0.27	<0.22	2.1	<0.16	3.0	<0.20	6.5	1.8	280	1.4	1.3	2.0	[0.58]	1.7	1.1	
	07/19/05	67	2.7	2.1	33	[0.083]	1.5	20	<0.14	16.0	[0.46]	70	17	2200	<0.23	2.2	4.80	3.6	11	5.5	
	01/25/06	17	1.7	2.3	2.3	<0.18	<0.13	[0.85]	<0.19	2.1	<0.23	3.7	1.7	180	[0.77]	[1.2]	0.89	[0.52]	0.9	2.2	
	11/08/06	20	1.3	1.5	1.6	0.41	<0.026	0.87	<0.037	1.0	<0.045	2.6	1.5	160	<0.05	0.71	0.33	[0.12]	0.36	1.4	
	05/23/07	68	6.4	<0.62	11	3.3	<0.26	4.2	<0.37	7.6	<0.45	24	4	1100	<0.5	[1.9]	2.4	<0.43	2.2	3.7	
	11/14/07	40	0.27	12	3.3	<0.35	<0.26	6.3	<0.37	8.6	<0.45	15	2.2	1100	<0.5	[2.4]	<0.39	<0.43	2.3	5.4	
	05/28/08	16	0.39	1.2	0.5	0.27	<0.026	[0.28]	<0.037	0.63	<0.045	1.3	0.4	86	<0.05	[0.23]	0.2	<0.043	0.18	0.73	
	04/28/09	13	0.11	<0.062	0.5	0.26	0.4	[0.16]	<0.037	<0.042	<0.045	1.9	[0.073]	190	[0.074]	0.32	0.4	<0.043	<0.056	1.1	
	10/13/09	31	13	<0.062	0.88	0.59	0.62	0.84	<0.037	1.1	<0.045	3	0.37	330	0.31	0.51	0.1	<0.043	0.88	2.4	
	MW-2A	09/05/03	140	1700	<0.066	0.97	0.42	<0.058	<0.11	NA	0.45	<0.049	<0.091	5.8	5.0	0.17	<0.055	0.49	<0.052	0.59	NA
		12/19/03	110	500	0.61	1.6	0.33	0.47	<0.053	NA	0.3	<0.039	0.38	3.6	7.2	0.17	<0.056	<0.048	<0.051	1.2	NA
06/29/04		95	280	0.35	1.5	0.31	<0.043	0.27	0.32	0.27	<0.039	<0.055	3.4	6.9	0.22	<0.056	<0.048	<0.051	0.96	0.35	
01/25/06		20	130	<0.062	0.66	0.37	<0.026	<0.11	0.15	0.36	<0.045	0.22	3.2	6.4	[0.12]	<0.075	0.23	<0.043	0.42	0.23	
11/08/06		15	160	0.99	0.91	0.41	<0.026	<0.11	<0.037	0.43	<0.045	0.6	5.2	18	<0.05	<0.075	0.26	<0.043	0.47	<0.047	
05/23/07		38	260	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
11/14/07		dry	dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
05/28/08		19	160	0.88	0.48	0.27	<0.026	0.52	<0.037	0.23	<0.045	0.19	3.9	9.7	<0.05	<0.075	0.32	<0.043	0.3	<0.047	
04/28/09		29	52	<0.062	0.3	[0.091]	<0.026	<0.11	[0.11]	[0.065]	<0.045	<0.036	1.1	9.8	[0.083]	<0.075	0.35	<0.043	<0.056	<0.047	
10/13/09		46	250	<0.062	0.44	<0.035	<0.026	<0.11	<0.037	0.21	<0.045	<0.036	4.9	8.8	[0.13]	<0.075	0.42	<0.043	0.21	<0.047	
MW-2B	09/05/03	40	36	1.0	1.2	0.39	0.45	<0.11	NA	0.87	<0.049	2.3	3.1	30	1.9	<0.055	<0.055	<0.052	[0.23]	NA	
	12/19/03	36	5.3	0.32	0.45	0.24	<0.043	<0.053	NA	0.35	<0.039	0.49	0.37	10	0.31	<0.056	<0.048	<0.051	<0.067	NA	
	06/29/04	45	37	0.51	1.5	0.65	0.88	<0.053	<0.031	0.20	<0.039	<0.055	<0.029	170	0.12	0.29	0.42	0.21	4.5	<0.036	
	07/19/05	47	28	0.15	4.7	0.46	0.5	<0.085	<0.027	[0.18]	<0.030	<0.051	<0.043	53	<0.045	<0.072	<0.083	<0.049	2.6	<0.030	
	01/25/06	69	3.4	<0.062	2.2	0.52	0.88	<0.11	<0.037	0.34	<0.045	<0.036	<0.032	38	<0.18	<0.075	0.17	<0.043	1.1	<0.047	
	11/08/06	22	0.79	<0.062	0.9	0.42	<0.026	<0.11	<0.037	0.34	<0.045	<0.036	<0.032	5.7	<0.05	<0.075	<0.039	[0.075]	[0.16]	<0.047	
	05/23/07	50	<0.025	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	11/14/07	dry	dry	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	05/28/08	40	0.35	0.96	3.3	0.43	0.7	<0.11	<0.037	0.21	<0.045	<0.036	<0.032	12	<0.05	<0.075	<0.039	0.15	1.7	<0.047	
	04/28/09	39	0.2	<0.062	[0.13]	0.17	0.45	<0.11	<0.037	[0.068]	<0.045	<0.036	<0.032	4.5	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
	10/13/09	54	[0.032]	<0.062	0.16	<0.035	<0.026	<0.11	<0.037	0.2	<0.045	<0.036	<0.032	4.3	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047	
NR 140 ES	10	--	--	3	3	3	3	2	--	1	--	--	250	15	--	--	90	--	4	7.5	
NR 140 PAL	2	--	--	0.3	0.3	0.3	0.3	0.2	--	0.1	--	--	50	1.5	--	--	18	--	0.4	0.75	

Notes:

Values in brackets represent results greater than the "Limit of Detection" but less than the "Limit of Quantitation."

-- = Value not established

mg/L = milligrams per liter

ug/L = micrograms per liter

120 Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) Exceedance
120 Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL) Exceedance

Table 2
Groundwater Analytical Results
Door County Cooperative
Sturgeon Bay, Wisconsin

Analyte	Nitrogen-Nitrate/Nitrite mg/L	Nitrogen-Ammonia mg/L	Acetochlor ug/L	Atrazine ug/L	Desethyl-atrazine ug/L	Desisopropyl-atrazine ug/L	Alachlor ug/L	Butylate ug/L	Cyanazine ug/L	Chlorpyrifos ug/L	Dimethenamid ug/L	EPTC ug/L	Metolachlor ug/L	Metribuzin ug/L	Pendimethalin ug/L	Prometon ug/L	Propazine ug/L	Simazine ug/L	Trifluralin ug/L	
MW-3A	09/05/03	140	0.87	2.5	1.2	0.35	0.38	<0.11	NA	0.94	<0.049	36	<0.033	14	1.4	<0.055	<0.055	<0.052	<0.10	NA
	12/19/03	56	0.085	0.43	0.6	0.4	0.58	<0.053	NA	0.86	<0.039	26	<0.029	43	<0.032	<0.056	<0.048	<0.051	[0.20]	NA
	06/29/04	79	0.48	[0.24]	0.4	0.22	0.49	0.27	<0.031	0.72	<0.039	34	<0.029	21	0.74	<0.056	0.34	<0.051	<0.067	<0.036
	07/19/05	42	1.4	<0.038	0.47	<0.079	0.16	[0.13]	<0.027	0.48	<0.030	33	<0.043	13	<0.045	[0.15]	<0.083	<0.049	<0.11	0.16
	01/25/06	46	1.3	<0.062	0.39	0.53	0.85	<0.11	<0.037	0.63	<0.042	19	<0.032	37	0.47	<0.075	0.24	<0.043	0.18	<0.047
	11/08/06	46	3.5	<0.062	0.34	0.49	0.86	<0.11	<0.037	0.58	<0.045	21	<0.032	27	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/23/07	63	4.6	<0.062	0.25	0.36	0.68	<0.11	<0.037	0.65	<0.045	19	<0.032	23	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	44	4.8	0.69	0.39	0.44	0.87	<0.11	<0.037	0.63	<0.045	21	<0.032	26	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/28/08	61	7.0	2	0.76	0.29	0.61	<0.11	<0.037	0.5	<0.045	22	<0.032	180	<0.05	<0.075	1.6	<0.043	[0.11]	<0.047
	04/28/09	50	35	3	[0.14]	0.42	0.49	<0.11	<0.037	0.26	<0.045	5.9	<0.032	30	[0.15]	<0.075	[0.060]	<0.043	<0.056	<0.047
	10/13/09	50	12	<0.062	0.36	0.35	<0.026	<0.11	<0.037	0.5	<0.045	15	<0.032	32	0.41	<0.075	<0.039	<0.043	<0.056	<0.047
MW-3B	09/05/03	96	1.6	1.6	1.5	0.57	0.45	<0.11	NA	1.1	[0.11]	15	<0.033	12	1.7	<0.055	<0.055	0.28	[0.16]	NA
	12/19/03	170	0.3	0.67	0.66	0.28	0.59	<0.053	NA	1.0	<0.039	57	<0.029	22	<0.032	[0.16]	<0.048	<0.051	0.22	NA
	06/29/04	130	0.48	[0.26]	0.43	0.23	0.47	0.55	<0.031	0.56	<0.039	24	<0.029	13	0.78	[0.17]	<0.048	<0.051	<0.067	<0.036
	07/19/05	53	1.4	<0.038	0.5	[0.11]	0.19	[0.12]	<0.027	0.49	<0.030	28	<0.043	15	<0.045	[0.18]	<0.083	<0.049	<0.11	<0.030
	01/25/06	53	1.6	<0.062	0.46	0.42	0.76	<0.11	<0.037	0.77	<0.045	42	<0.032	30	0.92	<0.075	0.28	<0.043	[0.16]	<0.047
	11/08/06	56	2.7	<0.062	0.43	0.45	<0.026	<0.11	<0.037	0.70	<0.045	33	<0.032	29	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/23/07	97	2.4	<0.062	0.21	0.38	0.69	<0.11	<0.037	0.63	<0.045	21	<0.032	26	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	50	2.2	1.4	0.42	0.39	0.84	<0.11	<0.037	0.66	<0.045	25	<0.032	28	<0.05	<0.075	<0.039	<0.043	[0.13]	<0.047
	05/28/08	91	1.1	2.7	0.6	0.35	0.62	<0.11	<0.037	0.37	<0.045	9.6	<0.032	220	<0.05	<0.075	1.7	<0.043	[0.13]	<0.047
	04/28/09	81	3.6	<0.062	0.16	0.22	0.43	<0.11	<0.037	0.28	<0.045	10	<0.032	33	0.19	<0.075	[0.11]	<0.043	<0.056	<0.047
	10/13/09	60	2.9	<0.062	0.43	0.32	<0.026	<0.11	<0.037	0.46	<0.045	17	<0.032	34	0.53	<0.075	[0.05]	<0.43	<0.056	<0.047
MW-4A	09/05/03	62	3.3	0.64	1.6	0.49	0.33	<0.11	NA	1.1	<0.049	1.4	0.78	66	1.6	<0.055	<0.055	0.21	[0.2]	NA
	12/19/03	30	3.9	<0.087	2.2	0.34	<0.043	<0.053	NA	0.68	<0.039	0.77	1.2	54	0.54	<0.056	<0.048	0.21	0.38	NA
	06/29/04	45	14	0.40	1.1	0.29	<0.043	<0.053	<0.031	0.64	<0.039	1.2	0.72	53	0.96	<0.056	<0.048	[0.13]	0.26	<0.036
	07/19/05	18	0.11	<0.038	0.81	[0.14]	[0.13]	<0.085	<0.027	0.54	<0.030	1.8	<0.043	25	0.59	<0.072	<0.083	<0.049	<0.11	<0.030
	01/25/06	26	6.7	<0.062	0.71	0.36	<0.026	<0.11	<0.037	0.67	<0.045	2	1.4	48	0.38	<0.075	0.22	[0.099]	0.2	<0.047
	11/08/06	23	4.6	1.50	0.99	0.4	<0.026	<0.11	<0.037	0.69	<0.045	4.3	1.6	79	<0.05	[0.21]	0.19	<0.043	0.26	<0.047
	05/23/07	26	5.1	<0.062	0.37	0.35	0.61	<0.11	<0.037	0.4	<0.045	0.16	<0.032	16	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	27	0.1	0.39	0.54	0.4	<0.026	<0.11	<0.037	0.41	<0.045	0.21	<0.032	16	<0.05	<0.075	<0.039	<0.043	[0.15]	<0.047
	05/28/08	28	0.2	[0.19]	0.3	0.31	<0.026	<0.11	<0.037	0.28	<0.045	[0.088]	<0.032	13	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	04/28/09	5.4	1.7	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	[0.054]	<0.045	<0.036	<0.032	2	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	10/13/09	25	0.24	<0.062	0.35	0.28	<0.026	<0.11	<0.037	0.31	<0.045	<0.036	<0.032	8.6	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
MW-4B	09/05/03	130	6	1.4	2.4	0.48	0.38	<0.11	NA	3.5	<0.049	2.5	0.77	88	3.9	[0.12]	[0.078]	0.22	0.36	NA
	12/19/03	55	0.34	<0.087	1.3	0.35	0.53	<0.053	NA	1.3	<0.039	0.92	0.17	29	1.2	<0.056	[0.073]	[0.15]	0.36	NA
	06/29/04	50	1.5	<0.087	0.88	0.29	0.46	<0.053	<0.031	0.87	<0.039	0.73	0.23	28	0.64	<0.056	0.39	<0.051	[0.17]	<0.036
	07/19/05	57	0.79	<0.038	0.67	[0.14]	0.16	<0.085	<0.027	0.56	<0.030	0.44	<0.043	13	0.43	<0.072	<0.083	<0.049	<0.11	<0.030
	01/25/06	42	0.076	<0.062	0.6	0.46	0.75	<0.11	<0.037	0.59	<0.045	0.47	<0.032	13	0.35	<0.075	0.23	<0.043	0.22	<0.047
	11/08/06	51	0.82	0.54	0.52	0.43	<0.026	<0.11	<0.037	0.49	<0.045	0.22	<0.032	11	<0.05	<0.075	[0.085]	<0.043	[0.082]	<0.047
	05/23/07	71	0.60	0.36	0.39	0.34	0.64	<0.11	<0.037	0.55	<0.045	0.32	<0.032	17	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	50	[0.026]	0.47	0.56	0.45	<0.026	<0.11	<0.037	0.44	<0.045	0.19	<0.032	9.4	<0.05	<0.075	[0.099]	<0.043	0.26	<0.047
	05/28/08	34	[0.064]	0.49	0.33	0.34	0.98	[0.26]	<0.11	0.4	<0.045	0.19	<0.032	10	<0.05	<0.075	<0.039	[0.067]	0.21	<0.047
	04/28/09	46	0.68	<0.062	0.25	0.12	<0.026	<0.11	<0.037	0.26	<0.045	0.12	[0.050]	10	[0.059]	<0.075	<0.039	<0.043	<0.056	<0.047
	10/13/09	46	<0.025	<0.062	0.42	0.28	<0.086	<0.35	<0.12	0.35	<0.045	<0.36	<0.032	5.6	[0.078]	<0.075	<0.039	<0.043	<0.056	<0.047
NR 140 ES	10	--	--	3	3	3	2	--	1	--	--	250	15	--	--	90	--	4	7.5	
NR 140 PAL	2	--	--	0.3	0.3	0.3	0.2	--	0.1	--	--	50	1.5	--	--	18	--	0.4	0.75	

Notes:
Values in brackets represent results greater than the "Limit of Detection" but less than the "Limit of Quantitation."
-- = Value not established
mg/L = milligrams per liter
ug/L = micrograms per liter

120 Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) Exceedance
120 Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL) Exceedance

Table 2
Groundwater Analytical Results
Door County Cooperative
Sturgeon Bay, Wisconsin

Analyte	Nitrogen-Nitrate/Nitrite	Nitrogen-Ammonia	Acetochlor	Atrazine	Desethyl-atrazine	Desisopropyl-atrazine	Alachlor	Butylate	Cyanazine	Chlorpyrifos	Dimethenamid	EPTC	Metolachlor	Metribuzin	Pendimethalin	Prometon	Propazine	Simazine	Trifluralin	
Units	mg/L	mg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
MW-4C	09/05/03	96	10	2.2	2.9	0.52	0.4	0.51	NA	5.3	<0.049	3.7	1.2	130	5.5	0.24	[0.13]	0.27	0.38	NA
	12/19/03	96	2.9	0.87	2.1	0.51	0.57	<0.053	NA	3.7	[0.064]	2.3	0.66	74	4.1	<0.056	0.16	0.19	0.43	NA
	06/29/04	64	4.2	[0.24]	1.2	0.35	0.48	<0.053	<0.031	1.3	<0.039	1.2	0.38	42	1.3	<0.056	0.41	[0.061]	[0.21]	<0.036
	07/19/05	59	1.5	0.46	1.3	0.33	0.23	<0.085	<0.027	1.2	<0.030	1.5	0.42	57	1.4	<0.072	[0.098]	<0.049	<0.11	<0.030
	01/25/06	51	1.1	1	0.9	0.5	0.76	[0.13]	<0.037	0.99	<0.045	0.73	0.26	32	0.71	<0.075	0.22	[0.099]	0.19	<0.047
	11/08/06	53	2.9	0.78	0.7	0.44	<0.026	<0.11	<0.037	0.69	<0.045	0.49	0.25	25	<0.05	<0.075	[0.089]	<0.043	[0.091]	<0.047
	05/23/07	50	4.8	<0.062	0.89	0.4	0.65	<0.11	<0.037	1.2	<0.045	1.4	0.47	56	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/28/08	51	0.73	0.74	0.46	0.39	1.00	[0.28]	<0.037	0.47	<0.045	0.31	[0.089]	16	<0.05	[0.11]	<0.039	<0.069	0.24	<0.047
	04/28/09	61	2.3	<0.062	0.44	0.16	0.54	<0.11	<0.037	0.49	<0.045	0.42	0.29	24	0.2	<0.075	[0.092]	<0.043	<0.056	<0.047
	10/13/09	63	1.2	<0.062	0.5	0.43	<0.026	<0.11	<0.037	0.45	<0.045	0.32	0.26	16	0.3	<0.075	[0.08]	<0.043	<0.056	<0.047
MW-5A	07/19/05	6.7	[0.026]	<0.038	<0.068	[0.14]	<0.044	<0.085	<0.027	<0.11	<0.030	<0.051	<0.043	2.1	<0.045	<0.072	<0.083	<0.049	<0.11	<0.030
	01/25/06	8	0.31	<0.062	0.18	<0.035	<0.026	<0.11	<0.037	0.32	<0.045	0.21	<0.032	4.6	0.19	<0.075	<0.039	<0.043	<0.056	<0.047
	11/08/06	4	<0.025	<0.062	[0.088]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	0.82	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/23/07	2.9	<0.025	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	0.23	<0.045	<0.036	<0.032	<0.17	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	33	[0.067]	0.99	0.43	0.55	0.76	<0.11	<0.037	0.36	<0.045	0.4	<0.032	24	<0.05	<0.075	0.18	<0.043	[0.17]	<0.047
	05/28/08	3.7	<0.030	[0.12]	[0.12]	0.28	<0.026	<0.11	<0.037	0.26	<0.045	<0.036	<0.032	1.9	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	04/28/09	11	0.31	<0.062	<0.048	<0.035	0.40	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	<0.17	<0.050	<0.075	<0.039	<0.043	<0.056	<0.147
	10/13/09	29	<0.025	<0.062	0.37	0.54	<0.026	<0.11	<0.037	0.32	<0.045	0.82	<0.032	28	0.38	<0.075	<0.039	<0.043	<0.056	<0.047
	MW-5B	07/19/05	6	[0.062]	<0.038	<0.068	<0.079	<0.044	<0.085	<0.027	<0.11	<0.030	<0.051	<0.043	1.6	<0.045	<0.072	<0.083	<0.049	<0.11
01/25/06		14	0.1	<0.062	0.31	<0.035	<0.026	<0.11	<0.037	0.36	<0.045	0.64	<0.032	6.0	0.26	<0.075	0.15	<0.043	[0.10]	<0.047
11/08/06		13	<0.025	0.58	[0.092]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	0.31	<0.032	3.9	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
05/23/07		10	<0.025	<0.062	[0.075]	<0.035	<0.026	<0.11	<0.037	0.29	<0.045	0.25	<0.032	3.9	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
11/14/07		9.7	[0.027]	0.82	0.27	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	0.25	<0.032	3.9	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
05/28/08		7.7	0.11	0.75	0.21	0.29	<0.026	<0.11	<0.037	0.26	<0.045	0.39	<0.032	5.5	<0.05	[0.057]	<0.039	<0.043	0.19	<0.047
04/28/09		8.1	[0.028]	<0.062	[0.082]	[0.074]	<0.026	<0.11	<0.037	[0.073]	<0.045	0.43	<0.032	7.5	[0.053]	<0.075	<0.039	<0.043	<0.056	<0.047
10/13/09		6.6	<0.025	<0.062	[0.11]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	0.57	<0.032	5.7	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
MW-6A		11/08/06	22	12	0.76	0.55	<0.035	<0.026	<0.11	<0.037	0.53	<0.045	0.76	1.3	40	<0.05	<0.075	[0.099]	<0.043	[0.067]
	05/23/07	9.5	3.2	<0.062	[0.082]	<0.035	<0.026	<0.11	<0.037	0.3	<0.045	[0.092]	[0.046]	5.5	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	6.4	<0.025	<0.062	[0.011]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	1.6	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/28/08	22	0.22	<0.062	[0.014]	<0.035	<0.026	<0.11	<0.037	0.28	<0.045	0.13	<0.032	4.7	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	04/28/09	1.3	[0.073]	<0.062	<0.048	[0.056]	0.41	<0.11	<0.037	[0.056]	<0.045	<0.036	<0.032	2.4	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	10/13/09	13	<0.025	<0.062	[0.061]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	4.2	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
MW-6B	11/08/06	3.3	0.088	[0.098]	0.23	<0.035	<0.026	<0.11	<0.037	0.35	<0.045	0.2	0.21	7.6	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/23/07	11	<0.025	<0.062	<0.048	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	[0.30]	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	11/14/07	4.9	[0.051]	<0.062	[0.13]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	1.6	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	05/28/08	1.3	[0.045]	<0.062	[0.15]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	0.93	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	04/28/09	3.4	[0.047]	<0.062	<0.048	[0.11]	0.74	<0.11	<0.037	[0.082]	<0.045	<0.036	<0.032	0.67	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
	10/13/09	7.4	<0.025	<0.062	[0.072]	<0.035	<0.026	<0.11	<0.037	<0.042	<0.045	<0.036	<0.032	2.40	<0.05	<0.075	<0.039	<0.043	<0.056	<0.047
NR 140 ES	10	--	--	3	3	3	2	--	1	--	--	250	15	--	--	90	--	4	7.5	
NR 140 PAL	2	--	--	0.3	0.3	0.3	0.2	--	0.1	--	--	50	1.5	--	--	18	--	0.4	0.75	

Notes:

Values in brackets represent results greater than the "Limit of Detection" but less than the "Limit of Quantitation."

-- = Value not established

mg/L = milligrams per liter

ug/L = micrograms per liter

120 Wisconsin Administrative Code Chapter NR 140 Enforcement Standard (ES) Exceedance

120 Wisconsin Administrative Code Chapter NR 140 Preventive Action Limit (PAL) Exceedance

Table 1
Groundwater Field Sampling Summary
Door County Cooperative
Sturgeon Bay, Wisconsin

Location	Date	TPVC Elevation* (ft.)	Water Level TPVC (ft.)	Water Level Elev. (ft)*	Ground Surface Elev. (ft.)	Screened Interval Elev. (ft.)	Filter Pack Interval Elev. (ft.)	Base of Well Filter Pack	Vertical Gradient (ft./ft.)	Bedrock Elevation Depth (ft.)	Color	Turbidity	Odor	Gallons Purged
On Site Water Supply Well	12/19/03	--	--	--	--	Total depth 240 bgs, casing to 173bgs				2.0 bgs	Clear	Clear	None	5
MW-1	09/05/03	100.62	18.14	82.48	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Clear	Clear	Yes	5
	12/19/03	100.62	15.79	84.83	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	--	--	--	5
	06/29/04	100.62	16.93	83.69	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Brown	Moderate	Yes	1 (dry)
	07/19/05	100.62	18.14	82.48	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Clear	Slight	Yes	5
	01/24/06	100.62	15.97	84.65	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Clear	Slight	Yes	8 (2x dry)
	11/08/06	100.62	16.25	84.37	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Red Brown	Moderate	Yes	2 (dry)
	05/23/07	100.62	18.18	82.44	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Brown	Slight	Yes	2 (2x dry)
	11/14/07	100.62	18.21	82.41	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Clear	Slight	Yes	6 (2x dry)
	05/28/08	100.62	17.86	82.76	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Brown	Slight	Yes	10
	04/28/09	100.62	13.61	87.01	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Brown	Slight	Yes	2(dry3x)
	10/14/09	100.62	18.31	82.31	98.04	89.0-79.0 (9.0-19.0 bgs)	91.0-78.5			94.0 (4.0 bgs)	Lt Brown	Slight	Yes	
MW-2A	09/05/03	97.58	16.54	81.04	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3	79.3		96.1 (1.7 bgs)	Lt. Brown	Turbid	Yes	0.5 (dry)
	12/19/03	97.58	12.63	84.95	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	--	--	--	0.5 (dry)
	06/29/04	97.58	13.79	83.79	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Slight	None	0.1 (dry)
	07/19/05	97.58	16.15	81.43	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Clear	Slight	2.5
	01/24/06	97.58	12.76	84.82	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Clear	None	0.1 (dry)
	11/08/06	97.58	13.04	84.54	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Clear	None	0.1 (dry)
	05/23/07	97.58	16.32	81.26	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Lt Brown	Moderate	None	0.1 (dry)
	11/14/07	97.58	16.45	81.13	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	--	--	--	0.1 (dry)
	05/28/08	97.58	14.71	82.87	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Clear	None	0.5 (dry)
	04/28/09	97.58	10.25	87.33	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Slight	None	2.5
	10/14/09	97.58	16.41	81.17	97.78	89.8-79.8 (8.0-18.0 bgs)	90.8-79.3			96.1 (1.7 bgs)	Clear	Slight	None	0.5 (dry)
MW-2B	09/05/03**	97.40	23.34	74.06	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3			96.1 (1.7 bgs)	V Lt. Brown	Slight	None	1.0 (dry)
	12/19/03	97.40	13.07	84.33	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.088 downward	96.1 (1.7 bgs)	--	--	--	1.0 (dry)
	06/29/04	97.40	12.62	84.78	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		-0.152 upward	96.1 (1.7 bgs)	Clear	Clear	None	1.5 (dry)
	07/19/05	97.40	17.77	79.63	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.339 downward	96.1 (1.7 bgs)	Clear	Clear	None	0.6 (dry)
	01/24/06	97.40	13.43	83.97	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.121 downward	96.1 (1.7 bgs)	Clear	Clear	None	2 (dry)
	11/08/06	97.40	22.03	75.37	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		1.335 downward	96.1 (1.7 bgs)	Clear	Clear	None	2 (dry)
	05/23/07	97.40	13.87	83.53	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		-0.434 upward	96.1 (1.7 bgs)	Clear	Clear	None	1.0 (dry)
	11/14/07	97.40	18.54	78.86	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.439 downward	96.1 (1.7 bgs)	--	--	--	1.0 (dry)
	05/28/08	97.40	12.39	85.01	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		-0.355 upward	96.1 (1.7 bgs)	Clear	Clear	None	0.5 (dry)
	04/28/09	97.40	12.45	84.95	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.288 downward	96.1 (1.7 bgs)	V Lt. Brown	Slight	None	1.0 (dry)
	10/14/09	97.40	20.04	77.36	97.78	77.8-72.8 (20.0-25.0 bgs)	78.3-72.3		0.735 downward	96.1 (1.7 bgs)	V Lt. Brown	Clear	None	1.0 (dry)
MW-3A	09/05/03	92.41	10.49	81.92	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5	71.5		82.5 (10.0 bgs)	Clear	Slight	None	2
	12/19/03	92.41	7.45	84.96	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	--	--	--	3
	06/29/04	92.41	7.94	84.47	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Lt Brown	Slight	None	0.75 (dry)
	07/19/05	92.41	11.34	81.07	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Slight	None	2.5
	01/24/06	92.41	7.66	84.75	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Clear	None	2 (dry)
	11/08/06	92.41	7.84	84.57	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Clear	None	3 (dry)
	05/23/07	92.41	10.45	81.96	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Clear	None	2 (dry)
	11/14/07	92.41	10.49	81.92	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Clear	None	2 (dry)
	05/28/08	92.41	9.26	83.15	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Slight	None	4
	04/28/09	92.41	5.32	87.09	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Slight	None	0.75 (dry)
	10/14/09	92.41	9.14	83.27	92.5	82.0-72.0 (10.5-20.5 bgs)	83.0-71.5			82.5 (10.0 bgs)	Clear	Slight	None	
MW-3B	09/05/03	92.25	12.72	79.53	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.200 downward	82.5 (10.0 bgs)	Clear	Slight	None	1.0 (dry)
	12/19/03	92.25	7.32	84.93	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.002 downward	82.5 (10.0 bgs)	--	--	--	1.5 (dry)
	06/29/04	92.25	8.05	84.20	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.020 downward	82.5 (10.0 bgs)	Clear	Clear	None	1.5 (dry)
	07/19/05	92.25	11.40	80.85	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.019 downward	82.5 (10.0 bgs)	Clear	Clear	None	0.5 (dry)
	01/24/06	92.25	6.30	85.95	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		-0.090 upward	82.5 (10.0 bgs)	Clear	Clear	Slight	3 (dry)
	11/08/06	92.25	7.50	84.75	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		-0.014 upward	82.5 (10.0 bgs)	Clear	Clear	None	5
	05/23/07	92.25	10.41	81.84	92.5	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.010 downward	82.5 (10.0 bgs)	Clear	Clear	None	1.5 (dry)
	11/14/07	92.25	9.98	82.27	92.50	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		-0.029 upward	82.5 (10.0 bgs)	Lt Brown	Clear	None	1.0 (dry)
	05/28/08	92.25	9.24	83.01	92.50	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.011 downward	82.5 (10.0 bgs)	Clear	Clear	None	2
	04/28/09	92.25	5.72	86.53	92.50	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.039 downward	82.5 (10.0 bgs)	Clear	Clear	None	1.5 (dry)
	10/14/09	92.25	9.28	82.97	92.50	67.5-62.5 (25.0-30.0 bgs)	68.5-62.0		0.024 downward	82.5 (10.0 bgs)	Clear	Clear	None	

Notes:

* = elevations are relative to an on-site temporary benchmark

** - The Piezometer had not fully recharged at the time of this water level measurement.

**Table 1
Groundwater Field Sampling Summary
Door County Cooperative
Sturgeon Bay, Wisconsin**

Location	Date	TPVC Elevation* (ft.)	Water Level TPVC (ft.)	Water Level Elev.(ft)*	Ground Surface Elev. (ft.)	Screened Interval Elev. (ft.)	Filter Pack Interval Elev. (ft.)	Base of Well Filter Pack	Vertical Gradient (ft./ft.)	Bedrock Elevation Depth (ft.)	Color	Turbidity	Odor	Gallons Purged
MW-4A	09/05/03	96.92	13.45	83.47	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7	78.7		95.2 (2.0 bgs)	V. Lt. Brown	Slight	None	2
	12/19/03	96.92	12.15	84.77	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	**	**	**	2 (dry)
	06/29/04	96.92	13.05	83.87	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Lt Brown	Moderate	None	0.5 (dry)
	07/19/05	96.92	14.66	82.26	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Slight	None	2
	01/24/06	96.92	12.33	84.59	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Clear	None	2.5 (dry)
	11/08/06	96.92	12.68	84.24	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
	05/23/07	96.92	14.05	82.87	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Clear	None	2.0 (dry)
	11/14/07	96.92	14.31	82.61	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
	05/28/08	96.92	13.20	83.72	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Clear	None	3
	04/28/09	96.92	9.72	87.20	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Slight	None	1.5 (dry)
	10/14/09	96.92	13.54	83.38	97.24	89.2-79.2 (8.0-18.0 bgs)	90.2-78.7			95.2 (2.0 bgs)	Clear	Slight	None	1.5 (dry)
MW-4B	09/05/03	96.88	15.94	80.84	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7	74.7	0.493 downward	95.2 (2.0 bgs)	Lt. Brown	Turbid	None	1.5
	12/19/03	96.88	12.62	84.26	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.088 downward	95.2 (2.0 bgs)	**	**	**	1.5 (dry)
	06/29/04	96.88	13.73	83.15	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.135 downward	95.2 (2.0 bgs)	Clear	Clear	None	0.5 (dry)
	07/19/05	96.88	18.81	78.07	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.925 downward	95.2 (2.0 bgs)	Clear	Clear	None	2
	01/24/06	96.88	13.10	83.78	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.142 downward	95.2 (2.0 bgs)	Clear	Clear	None	2
	11/08/06	96.88	14.38	82.50	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.315 downward	95.2 (2.0 bgs)	Clear	Clear	None	1.5
	05/23/07	96.88	15.83	81.05	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.376 downward	95.2 (2.0 bgs)	Clear	Clear	None	2.5
	11/14/07	96.88	16.24	80.64	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.419 downward	95.2 (2.0 bgs)	Clear	Clear	None	1.5
	05/28/08	96.88	14.58	82.30	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.270 downward	95.2 (2.0 bgs)	Clear	Clear	None	3
	04/28/09	96.88	10.05	86.83	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.053 downward	95.2 (2.0 bgs)	Clear	Clear	None	2
	10/14/09	96.88	15.13	81.75	97.24	77.2-75.2 (20.0-22.0 bgs)	78.2-74.7		0.320 downward	95.2 (2.0 bgs)	Clear	Clear	None	2
MW-4C	09/05/03	96.80	15.86	80.94	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.000 none	95.2 (2.0 bgs)	Clear	Slight	None	1
	12/19/03	96.80	12.55	84.25	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.002 downward	95.2 (2.0 bgs)	**	**	**	1.0 (dry)
	06/29/04	96.80	13.68	83.12	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.005 downward	95.2 (2.0 bgs)	Clear	Clear	None	1.0 (dry)
	07/19/05	96.80	18.74	78.06	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.002 downward	95.2 (2.0 bgs)	Clear	Clear	None	2.5
	01/24/06	96.80	12.59	84.21	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		-0.066 upward	95.2 (2.0 bgs)	Clear	Clear	None	2 (dry)
	11/08/06	96.80	13.30	83.50	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		-0.154 upward	95.2 (2.0 bgs)	Clear	Clear	None	2 (dry)
	05/23/07	96.80	15.77	81.03	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.003 downward	95.2 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
	11/14/07	96.80	16.62	80.18	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.071 downward	95.2 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
	05/28/08	96.80	14.52	82.28	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.003 downward	95.2 (2.0 bgs)	Clear	Clear	None	4
	04/28/09	96.80	10.02	86.78	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.006 downward	95.2 (2.0 bgs)	Clear	Clear	None	2.5
	10/14/09	96.80	15.05	81.75	97.24	72.2-67.2 (25.0-30.0 bgs)	73.2-66.7		0.000 none	95.2 (2.0 bgs)	Clear	Clear	None	2.5
MW-5A	07/15/05	95.10	15.86	79.24	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7	73.3		90.7 (2.0 bgs)	Clear	Slight	None	0.5 (dry)
	07/19/05	95.10	16.23	78.87	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	2
	01/24/06	95.10	10.17	84.93	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	5
	11/08/06	95.10	10.37	84.73	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	5
	05/23/07	95.10	13.48	81.62	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	2.5
	11/14/07	95.10	15.38	79.72	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	1
	05/28/08	95.10	12.02	83.08	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	5
	04/28/09	95.10	8.07	87.03	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	3
	10/14/09	95.10	15.33	79.77	92.68	84.7-74.7 (8.0-18.0 bgs)	86.7-73.7			90.7 (2.0 bgs)	Clear	Clear	None	3
	MW-5B	07/15/05	95.10	15.86	79.24	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2	62.2	0.000 none	90.7 (2.0 bgs)	Clear	Clear	None
07/19/05		95.10	17.75	77.35	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.141 downward	90.7 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
01/24/06		95.10	10.34	84.76	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.012 downward	90.7 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
11/08/06		95.10	10.53	84.57	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.012 downward	90.7 (2.0 bgs)	Clear	Clear	None	2 (dry)
05/23/07		95.10	13.53	81.57	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.004 downward	90.7 (2.0 bgs)	Clear	Clear	None	1.5 (dry)
11/14/07		95.10	16.17	78.93	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.070 downward	90.7 (2.0 bgs)	Clear	Clear	None	2 (dry)
05/28/08		95.10	12.17	82.93	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.012 downward	90.7 (2.0 bgs)	Clear	Clear	None	3.5
04/28/09		95.10	9.34	85.76	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.085 downward	90.7 (2.0 bgs)	Clear	Clear	None	1 (dry)
10/14/09		95.10	16.64	78.46	92.68	67.7-62.7 (25.0-30.0 bgs)	69.7-62.2		0.117 downward	90.7 (2.0 bgs)	Clear	Clear	None	1 (dry)
MW-5A		11/08/06	99.35	15.60	83.75	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Clear	Clear	None
	05/23/07	99.35	16.19	83.16	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Lt Brown	Moderate	None	Dry
	11/14/07	99.35	16.17	83.18	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Lt Brown	Clear	None	1.5 (dry)
	05/28/08	99.35	16.17	83.18	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Clear	Clear	None	1.5 (dry)
	04/28/09	99.35	12.31	87.04	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Clear	Clear	None	3
	10/14/09	99.35	16.40	82.95	97.01	91.0-81.0 (6.0-16.0 bgs)	92.0-79.0			96.0 (1.0 bgs)	Clear	Clear	None	0.5 (dry)
MW-5B	11/08/06	99.24	18.62	80.62	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.248 downward	96.0 (1.0 bgs)	Lt Brown	Low	None	5
	05/23/07	99.24	22.65	76.59	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.533 downward	96.0 (1.0 bgs)	Clear	Clear	None	1 (dry)
	11/14/07	99.24	24.12	75.12	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.853 downward	96.0 (1.0 bgs)	Clear	Clear	None	3
	05/28/08	99.24	20.38	78.86	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.350 downward	96.0 (1.0 bgs)	Clear	Clear	None	1 (dry)
	04/28/09	99.24	14.63	84.61	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.170 downward	96.0 (1.0 bgs)	Clear	Clear	None	1
	10/14/09	99.24	22.38	76.86	97.01	72.0-67.0 (25.0-30.0 bgs)	73.0-66.5		0.498 downward	96.0 (1.0 bgs)	Clear	Clear	None	1

Notes:

* = elevations are relative to an on-site temporary benchmark
 ** - The Piezometer had not fully recharged at the time of this water level measurement.