

Notice: This application form template was created by the Wisconsin Department of Natural Resources. Application is hereby made to the Wisconsin Department of Natural Resources, Bureau of Watershed Management, for grant assistance consistent with s. 281.65, Wis. Stats., and Chapters NR 153 and NR 154, Wis. Adm. Code. Collection of this information is authorized under the authority of s. 281.65, Wis. Stats. Personal information collected will be used for administrative purposes and may be provided to requesters to the extent required by Wisconsin's Open Records Law [ss. 19.31 - 19.39, Wis. Stats.]. *Unless otherwise noted, all citations refer to Wisconsin Administrative Code.*

Please read the [instructions](#) prior to completion of this form. Complete all sections as applicable. Refer to the instructions for attachments.

Applicant Information

Calendar Year of Grant Start 2016

Project Name

Nick DeBaker Manure Storage

Governmental Unit Applying (name and type) (e. g. Dane County Land and Water Resources Department)

Kewaunee County Land and Water Conservation Department

Governmental Unit Web Site Address

www.kewauneeeco.org

Name of Responsible Government Official - Authorized Signatory (First Last)
 Davina Bonness

Name of Government Official - Grant Contact Person (First Last)(if different)

Title

Title

County Conservationist

Area Code + Phone Number

(920) 845-9743

Area Code + Phone Number

E-Mail Address

bonnessd@kewauneeeco.org

E-Mail Address

Mailing Address - Street or PO Box

625 Third Street

Mailing Address - Street or PO Box

City

Luxemburg

State

WI

ZIP Code

54217

City

State

WI

ZIP Code

Part I. Project Information

A. Project Category: Total Maximum Daily Load (TMDL) or Non-TMDL

- 1. TMDL Project:** The project must meet all of the following criteria:
 - The project is in a geographical area covered by an EPA-approved TMDL.
 - The project addresses the most critical nonpoint pollution sources of the agricultural nonpoint pollutants identified in the TMDL document.

Provide the title of the TMDL report that this project implements. (TMDL link: <http://dnr.wi.gov/topic/tmdls/tmdlreports.html>).

Provide a link to the report, if available.

Provide the document page number(s) that identify the pollutants and sources being addressed by this project.

- 2. Non-TMDL Project:** The project must be designed to achieve attainment of the NR 151 agricultural performance standards and prohibitions.

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TRM Grant Project Name:

Nick DeBaker Manure Storage

B. Location of Project

See [Attachment A](#) and Surface Water Data Viewer (SWDV) at <http://dnrm.wi.gov/SL/?Viewer=SWDV> for assistance in completing this question.

County Kewaunee			State Senate District number: 1				State Assembly District number: 1	
Minor Civil Division Name (city, village, town, etc. - ex. Holland, Town of)	Township (N)	Range	E or W	Section	Quarter	Quarter-Quarter	Latitude (North, 4 to 7 decimal places)	Longitude (West, 4 to 7 decimal places)
Town of Red River	25 N	23	E	30	NW	SW	44.612824	-87.762971
	N							
	N							
	N							

Method for Determining Latitude & Longitude (check one)

- GPS
 DNR Surface Water Data Viewer
 Other (specify): _____

C. Watershed and Waterbody

See [Attachment A](#) and SWDV at <http://dnrm.wi.gov/SL/?Viewer=SWDV> for assistance in completing this question.

Watershed Name	DNR Watershed Code	Primary Waterbody Name	Nearest Waterbody Name
Red River-Frontal Green Bay	TK07	Gilson Creek-Frontal Green Bay	Unnamed Trib. to Green Bay

12-digit Hydrologic Unit Code (HUC): 040301020407

D. Endangered and Threatened Resources, Historic Properties, and Wetlands

Check the appropriate box for each question based on what the **governmental unit knows** to occur where the project disturbs land.

1. There are endangered or threatened resources, as identified in s. 29.604, Wis. Stats., and NR 27 in the project area. (Refer to: http://dnr.wi.gov/topic/erreview/publicportal.html?utm_source=featureimage&utm_medium=homepage&utm_campaign=20140929_nhiportal for assistance.)
2. There are archaeological sites, historical structures, burial sites, or other historic places identified in s. 44.45, Wis. Stats., in the project area.
3. There are wetlands in the project area that are governed by water quality standard provisions of NR 103. (Answer with the SWDV map layer **Wetland Indicators** at <http://dnrm.wi.gov/SL/Viewer.html?Viewer=SWDV&runWorkflow=Wetland>)

E. Maps and Photographs

Yes

- An 8.5" x 11" map from USGS or the DNR data/map viewers, showing the project area, is attached.
 Aerial photo maps and project area photos are also included.

F. Filters Note: The applicant **must** be able to check "Yes" to questions 1 through 9 and, if applicable "Yes" to questions 10 and 11 below to be eligible for a grant.

Yes

1. The project will control agricultural runoff.
2. The applicant certifies that funding from this grant will **only** be used for BMPs to bring **existing** cropland, **existing** livestock facilities and non-significant expansions of livestock operations into compliance with NR 151 performance standards or prohibitions. (See definitions for existing (existing prior to effective dates of standards and prohibitions) and significant expansion in the [instructions](#) at **Part I. F & G** and **Part II. H**, respectively).
3. The applicant certifies that funding from this grant will **not** be used for best management practices to bring a livestock facility or cropland back into compliance with a performance standard or prohibition in NR 151 when such compliance had previously been achieved after the **effective date** of the standard or prohibition. (See effective dates at [instructions](#) Part I. G.)

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- 4. The applicant certifies that funding from this grant will *not* be used for best management practices for which the DNR or local unit of government included a previous offer of cost sharing as part of a NR 151 notice or county notice that meets requirements of NR 151.09 or NR 151.095.
- 5. The project is consistent with the county Land & Water Resources Management Plan (LWRMP), plan amendment, or work plan prepared under s. ATCP 50.12, Wis. Adm. Code, and the approved LWRMP plan amendment, work plan or Inter-Governmental Agreement with DNR includes a qualifying strategy to implement state agricultural performance standards and prohibitions contained in subch. II of NR 151.

Identify the document name and date approved by the Land & Water Board.

Name: Kewaunee County Land & Water Resource Management Plan	Date	10/06/2009
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- a. To demonstrate consistency with the LWRMP, identify the goals, objectives or activities from the LWRMP, plan amendment or work plan related to the resource(s) of concern being addressed by the project.
 1. Inform/educate landowners about performance standards/prohibitions, 2. Conduct compliance reviews, 3. Identify BMP's to achieve compliance, 4. Apply for grants, 5. Provide technical assistance.
- b. To demonstrate a qualifying NR 151 implementation strategy, identify the implementation strategy outlined in the approved LWRMP document. Provide page numbers and a web link or attach hard copy of the pages.
Implementation strategy is identified within pages 46-51. Hard copy attached to another TRM application.

- 6. The project will be completed within 24 months of the start of the grant period.
- 7. Staff and contractors designated to work on this project have adequate training, knowledge and experience to implement the proposed project.
- 8. Staff or contractual services, in addition to those funded by this grant, will be provided if needed.
- 9. The local DNR Nonpoint Source Coordinator (see <http://dnr.wi.gov/topic/nonpoint/NPScontacts.html>) has been contacted and the project was discussed.

Name of the Local/DNR Nonpoint Source Coordinator Contacted	Date Contacted	Subject of Contact
Erin Hansen	04/09/2015	TRM grant application

- 10. If this application is for a livestock facility, an Animal Units Calculation Worksheet (Form 3400-25a) for existing and future livestock numbers is attached. (Form available at: http://dnr.wi.gov/topic/AgBusiness/documents/3400025A_WT.doc).
- 11. If this is a joint application among local units of government, a draft of the Inter-Governmental Agreement is attached. (See [Attachment H](#))

G. Best Management Practices (BMPs) for which DNR TRM Funding is Requested.

Check all BMPs for which DNR funding is requested and insert the Performance Standard and Prohibition codes the BMP addresses, if applicable. See [instructions](#) Part I. G. for table of standards and prohibition codes and effective dates. (Also see [Attachment D](#) for additional BMP information.) Assure a budget for each BMP is included in Part II. A.

Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses	Structural Practice (Wis. Adm. Code)	Enter Code #s: Performance Std.(s) or Prohibition(s) the BMP Addresses
<input checked="" type="checkbox"/> Manure Storage Systems (NR 154.04(3)) R16	Code(s) 4	<input type="checkbox"/> Riparian Buffers (NR 154.04(25)) R23	Code(s)
<input type="checkbox"/> Manure Storage System Closure (NR 154.04(4)) R15	Code(s)	<input type="checkbox"/> Roofs (NR 154.04(26)) R25	Code(s)
<input checked="" type="checkbox"/> Barnyard Runoff Control Systems (NR 154.04(5)) R3	Code(s) 7	<input checked="" type="checkbox"/> Roof Runoff Systems (NR 154.04(27)) R24	Code(s) code = 8
<input type="checkbox"/> Access Roads & Cattle Crossings (NR 154.04(6)) R1	Code(s)	<input type="checkbox"/> Sediment Basins (NR 154.04(28)) R26	Code(s)
<input type="checkbox"/> Animal Trails and Walkways (NR 154.04(7)) R2	Code(s)	<input type="checkbox"/> Sinkhole Treatment (NR 154.04(30)) R28	Code(s)
<input type="checkbox"/> Critical Area Stabilization (NR 154.04(10)) R6	Code(s)	<input type="checkbox"/> Subsurface Drains (NR 154.04(33)) R30	Code(s)
<input type="checkbox"/> Diversions (NR 154.04(11)) R7	Code(s)	<input type="checkbox"/> Terrace Systems (NR 154.04(34)) R31	Code(s)
<input type="checkbox"/> Field Windbreaks (NR 154.04(12)) R8	Code(s)	<input checked="" type="checkbox"/> Underground Outlets (NR 154.04(35)) R32	Code(s) code = 7
<input type="checkbox"/> Filter Strips (NR 154.04(13)) R9	Code(s)	<input type="checkbox"/> Waste Transfer Systems (NR 154.04(36)) R33	Code(s)
<input type="checkbox"/> Grade Stabilization (NR 154.04(14)) R10	Code(s)	<input type="checkbox"/> Wastewater Treatment Strips (NR 154.04(37)) R34	Code(s)
<input type="checkbox"/> Heavy Use Area Protection (NR 154.04(15)) R11	Code(s)	<input type="checkbox"/> Water and Sediment Control Basins (NR 154.04(38)) R35	Code(s)
<input type="checkbox"/> Lake Sediment Treatment (NR 154.04(16)) R12	Code(s)	<input type="checkbox"/> Waterway Systems (NR 154.04(39)) R36	Code(s)
<input type="checkbox"/> Livestock Fencing (NR 154.04(17)) R13	Code(s)	<input type="checkbox"/> Well Decommissioning (NR 154.04(40)) R37	Code(s)
<input type="checkbox"/> Livestock Watering Facilities (NR 154.04(18)) R14	Code(s)	<input type="checkbox"/> Wetland Development or Restoration (NR 154.04(41)) R38	Code(s)
<input type="checkbox"/> Prescribed Grazing (NR 154.04(22)) R20	Code(s)	Streambank and Shoreline Protection (NR 154.03(31)) (includes associated fencing)	
<input type="checkbox"/> Relocate or Abandon Animal Feeding Ops. (NR 154.04(23)) R21	Code(s)	<input type="checkbox"/> Stream Crossing R39C	Code(s)
Process Wastewater Handling (NR 154.04(19) & NRCS 629)		<input type="checkbox"/> Rip-rapping R39R	Code(s)
<input type="checkbox"/> Milking Center Waste Control Systems R17	Code(s)	<input type="checkbox"/> Shaping & Seeding R39S	Code(s)
<input type="checkbox"/> Feed Storage Leachate R52	Code(s)	<input type="checkbox"/> Fencing R39F	Code(s)
<input type="checkbox"/> Other Wastewater - specify in "Other" below	Code(s)	<input type="checkbox"/> Other Protection - e.g. bio- engineering - specify in "Other" below R39O	Code(s)
<input type="checkbox"/> Other (specify)			

Part II. Competitive Elements

A. FINANCIAL BUDGET TABLE

A.1. Detailed Budget for every BMP checked in Part I. G. above. The grant amount is capped at \$150,000.

A	B
Detailed List of Project Activities and Sub-activities Eligible for DNR Cost Sharing	Amount Eligible for DNR Cost Sharing (\$)
Construction Components:	
Manure Storage	
Excavation (4000 cu yard)	1,200
Sand/Gravel (353 cu yards)	3,177
6" Pipe Trench (150 linear feet)	2,250
5" Slab (19061 sq feet)	57,183
Fence (510 linear feet) and 10' Gates (4)	1,932
Seeding (1 acre)	320
Pump	10,000
Reception Pit	7,000
Silt Fence (300 linear feet)	210
Barnyard	
Excavation (104 cu yards)	312
Sand/Gravel (52 cu yards)	468
Wood Picket; 4" Pipe/Trenching (125 linear feet)	1,450
Fill (104 cu yards)	728
2' Wall (240 linear feet)	9,600
Fence (360 linear feet) and 10' Gates (4)	1,650
5" Slab (2713 cu feet)	8,139
Limestone Screens (30 cu yards)	330
Curing Compound (MS: 95 gal, BY: 19 Gal)	744
Roof Gutters	
6" Gutter (330 linear feet)	3,300
6" Outlet (300 linear feet)	4,500
6" Riser (2)	350
4"x5" Down spout (10 linear feet)	80
Private Engineering Activities	
1. Construction Subtotal	114,923
2. Local Force Account Activities (Entry is limited to \$10,715 or .05263 of Row 1, whichever is less.)	

Cost-Sharing:

A	B Eligible Project Totals	C Cost-Share %	D Eligible Cost-Share
3. Construction-related Subtotal: [add Rows 1 and 2]	\$ 114,923	70 %	\$ 80,446
4. Property Acquisition: Fee Title & Easement	\$	70 %	\$
5. Project Grand Totals: [add Rows 3 and 4]	\$ 114,923		\$ 80,446

Cap Test:

6. Maximum State Share: [row 5, column D or \$150,000, whichever is less]	\$ 80,446
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State and Local Share:

7. Requested State-Share Amount (Enter Requested Grant Amount)	\$ 80,446
8. Local-Share Amount: [row 5, column B less row 7]	\$ 34,477

A.2. Use of Additional Funding

- Check this box if both of the following conditions are met.
- The requested state-share amount in row 7 is less than the \$150,000 grant cap.
 - The requested state-share amount in row 7 is below the maximum state-share in row 6. (The resulting cost-share rate is less than 70%.)

B. Method Used to Calculate Cost Estimates: Select the appropriate option. Attach design, bid, estimate documentation, as applicable.

- 1. Project costs are based on completed design and competitive bid on the project. Construction components and costs above should be detailed. Provide the supportive documentation attached to this application.
- 2. Project costs are based on completed design with materials and labor costs based on similar, recently bid projects. Construction components in C. above should be detailed. Provide the supportive documentation in this application.
- 3. Project design is not complete; however, the proposed project and costs are based on similar and recent projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application
- 4. Project design is not complete and the cost estimate is based on an average or a range of projects and costs. Provide as much construction detail in C. above as possible. Provide the supportive documentation in this application.
- 5. Project and costs are less specific than choices above. Provide explanation of cost estimates below or attached to this application.

C. Timeline and Source of Staff

For each applicable milestone listed below, fill in the appropriate data.

Milestone	Target Completion Date (month/year)	Source of Staff
Completion of design	05/2015	Landowner/LWCD Staff
Obtaining required permits	01/2016	Landowner/LWCD Staff
Landowner contacts	02/2015	LWCD
CSA signing	01/2016	Landowner/LWCD Staff
Bidding	02/2016	Landowner
DNR approvals	10/2015	Landowner/LWCD Staff
Contract signing	01/2016	Landowner/LWCD Staff
BMP construction	06/2016	Landowner/LWCD Staff
Site inspection and certification	08/2016	LWCD
Project evaluation	09/2016	LWCD
Other (specify)		

D. Water Quality Need Category – The project must be consistent with at least one of the following seven watershed priorities. Check the **one** category (surface or groundwater) which best identifies the water quality priority which the project directly addresses. See the [instructions](#) for category definitions and scoring information.

Surface Water Considerations For assistance with this section, consult the DNR's web pages provided below, see the [instructions](#) and see [Attachment A](#) of the instructions.

- 1. Clean Water Act section 303(d) List of Impaired Waters
 Name of Applicable Impaired Water:

Pollutant Causing Impairment:

- 2. Outstanding or Exceptional Resource Waters (ORW/ERW), Area of Special Natural Resource Interest (ASNRI) - To locate ASNRI using DNR's Surface Water Data Viewer go to <http://apwmad0d1600/SL/Viewer.html?Viewer=SWDV&runWorkflow=DesignatedWaters>.
Name of Applicable ORW/ERW or ASNRI:
ASNRI Quality Wetland Streams, Quality Wetland Waters, Unnamed Tributary to Green Bay (Lk Michigan)
ASNRI Quality Wetland Streams, Un.Trib to Kew Rv
- 3. Not Fully Supporting Uses or NPS Ranking of High or Medium.
- 4. Surface Water Quality

Bonus Points: Federal NPS Program Watershed Project Funding Eligibility

Check this box if the project meets all of the following criteria:

- The project addresses a nonpoint source impaired waterbody listed on the most current EPA-approved Section 303(d) list of impaired waters or a nonpoint source threatened unimpaired/high quality water.
- The project is located upstream of and in the same 12-digit hydrologic unit (sub-watershed) as the 303(d) listed water or the unimpaired/high quality water.
(Refer to [Attachment A](#) and <http://dnrmads.wi.gov/SL/?Viewer=SWDV> for assistance.)
- The project implements the goals and recommendations of an EPA-approved watershed-based "9 key element" plan.
- The project controls the same NPS pollutants which are impairing the 303(d) listed waterbody or threatening the unimpaired/high quality water.

The project may be eligible for Federal NPS Program (Clean Water Act Section 319) Watershed Project Funding. (Refer to [Attachment C](#) of the application instructions for a list of eligible plans or link to map and plans at: <http://dnr.wi.gov/water/9kemp/>.)

Provide the title of the EPA-approved nine key element plan this project implements.

Groundwater Considerations For assistance with this section, consult the local DNR Drinking Water and Groundwater Specialist (<http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf>) or the County Extension Office.
Attach supporting documentation.

- 5. Exceeds Groundwater Enforcement Standard
Pollutant Causing Impairment:

- 6. Exceeds Groundwater Preventive Action Limit
Pollutant Causing Impairment:

- 7. Groundwater Susceptible to Contamination by Agricultural Nonpoint Source Pollutants

E. Drinking Water Bonus Points:

Yes

Check this box if the project water quality goals identified above relate to the reduction of nonpoint source contaminants in community or non-community public drinking water supplies. This includes any of the following: Municipal water supplies governed by chs. NR 809 and 811; Other-Than-Municipal (OTM) water supplies governed by chs. 809 and 811; Non-Transient water supplies governed by chs. NR 809 and 812; Transient water supplies governed by chs. NR 809 and 812.

1. If "Yes" and you checked box 5, 6, or 7 above, then mark a, b or c below and move on to question F. (You will need assistance from your local DNR Nonpoint Source Coordinator (<http://dnr.wi.gov/topic/nonpoint/NPScontacts.html>) or Water Supply Specialist (<http://dnr.wi.gov/topic/drinkingwater/documents/countycontacts.pdf>) to answer.)

- a. Check this box if the project is located: within the wellhead protection area of a municipal well, **or** within 1,200 feet of a municipal well for which a wellhead protection area is not delineated, **or** within 1,200 feet of an "Other-Than-Municipal (OTM)" water supply well, or within 1,200 feet of a non-transient water supply well
- b. Check this box if the project is located within 200 feet of Transient water supply well.
- c. Check this box if you did not select a or b.

2. If "Yes" **and** you checked box 1, 2, 3, or 4 for surface water considerations above, then place a check mark next to the drainage area where the project is located (see below).

- | | |
|---|---|
| <input type="checkbox"/> Pike River and Creek | <input type="checkbox"/> Twin Rivers |
| <input type="checkbox"/> Root River | <input checked="" type="checkbox"/> Kewaunee and Ahnapee Rivers |
| <input type="checkbox"/> Oak Creek | <input type="checkbox"/> Menominee River |
| <input type="checkbox"/> Milwaukee River | <input type="checkbox"/> Fish Creek |
| <input type="checkbox"/> Sauk Creek | <input type="checkbox"/> St. Louis and Nemadji Rivers |
| <input type="checkbox"/> Sheboygan and Onion Rivers | |
| <input type="checkbox"/> Manitowoc River | <input type="checkbox"/> Lake Winnebago |

F. Nature of the Water Quality Impact. Check the box if the statement applies to receiving waters that are being affected by the project site.

- 1. General water quality impacts.** The receiving waters experience general resource degradation from nonpoint pollution sources. Cause and effect relationships between the impairments and the specific site to be funded are difficult or impossible to establish. (Note: This may be chosen if 1, 3, 4, 5 or 6 is checked in D. Water Quality Needs.)
- 2. Site-specific degradation.** Site-specific impacts on receiving waters from the site to be funded are observable or measurable such that a cause and effect relationship is clearly evident. (Note: This may be chosen if 1, 3, 4, 5 or 6 is checked in D. Water Quality Needs.)
- Supporting information, such as data summaries or photos, is attached. (Required to earn credit for statement 2.)
- 3. Threats.** There are no nonpoint source impacts observed or measured in receiving waters but the existence of the pollution source is perceived to be a threat. (Note: This may be chosen if 2. or 7. is checked in D. Water Quality Needs.)

G. Project - Describe the water quality problem, the solution being proposed and the expected environmental improvements.

1. Describe the pollution problem(s) at the site and its effect on water quality (on site and off site).

What are the critical pollutants and the pollutant sources on the project site? What are all of the Performance Standards & Prohibitions (PS&Ps) and/or TMDL goals that need to be addressed on the site? How does the site impact water quality? Describe how pollutants are conveyed to waters of the state, the distance(s) between source(s) and discharge points or areas to surface or ground water, frequency, magnitude and/or duration of discharge(s), etc. What is the current, estimated pollutant load? (Recommendation: attach photos of pollution source areas, pollution conveyance to waters of the state and the affected receiving water and mention photos here.)

Under this Red River and Sturgeon Bay Watershed project, the BMP NR 154.04(3) Manure Storage System and Barnyard Runoff Control are being planned for 200 beef cows, which will give DeBaker 7 months of storage. Although the Red River and Sturgeon Bay Watershed is located primarily in Door County, it also covers the Northwestern corner of Kewaunee County and Northeastern corner of Brown County. The Red River and Sturgeon Bay watershed is dominated by agriculture (57%) and ranked medium for nonpoint source issues affecting surface and high for those affecting groundwater. Nonpoint source pollutants to the watershed include sediment, nitrogen, phosphorus and manure. The pollutants are all found in manure and milk-house runoff, resulting in the potential of water quality degradation. In 2000, the Lakeshore Basin Partnership Team, which includes the Door-Kewaunee watershed, identified a list of priorities of the most pressing issues impacting the natural resources in the watershed including contamination of drinking water and loss of biodiversity. DeBaker's farm currently has 200 beef cows, which generate 462.7 cu feet of manure and wastewater per day. The manure is hauled daily and milkhouse waste is tiled into the field. The long winter months when the ground is frozen as well as times of saturation in spring and fall heighten the risk of water quality degradation when inadequate manure storage facilities are present. The barnyard areas that the animals are confined on are 13,540 square feet and can be seen on the attached project site map. The barnyard area sits at a higher elevation than the adjacent field; runoff flow down to this field results in very wet, mucky conditions. The estimated monthly runoff from these areas is 16,699 cubic feet. The proposed concrete barnyard and manure storage will eliminate the opportunity for runoff and soil degradation in this area. Roof gutters installed above the barnyard area will redirect effluent from storm events which will further reduce the opportunity for runoff. This site is bordered by an unnamed tributary to Green Bay approximately 500 meters to the East, and an unnamed tributary to Kewaunee River flows through the Southeastern property/spreading area, both of which are ASNRI (see attached map). The project site is located on 288 acres, of which 255 are cropland (See attached Section

Map). These fields are mostly silt loam/silty clay loam soils with fall spreading restrictions due to excessively drained soils (P) or 12" or less to the apparent water table. Winter spreading restrictions exist if the field slopes are >9% and not contoured. The topographic map included shows the path of potential runoff to the unnamed tributary to Green Bay and unnamed tributary to Kewaunee River. These waterbodies are vulnerable to pollution in the heavily agriculture landscape. In addition, Karst topography is prevalent in the landscape of Kewaunee County, limiting manure spreading in sensitive areas. Appropriately sized manure and barnyard storage facilities will eliminate the need for daily spreading/tiling, further protecting these sensitive areas in the landscape.

2. Describe the project.

What is this project? What pollution problem(s) described above will be addressed with this project and how? How much of the pollution problem(s) associated with this site/operation will this project address? Which of the NR 151 PS&Ps or TMDL goals identified above will this project address? Which, if any, will remain to be addressed (and why)? Will the remaining PS&Ps be addressed with other funding sources in the same timeframe as this project or will they need to be addressed in subsequent years/grants?

The LWCD is proposing to construct a concrete lined manure storage to collect all manure and milk house waste from the farm. This will allow proper manure storage until spreading occurs and prevents potential runoff. Pollution will be addressed by storing all waste/manure in an USDA/NRCS constructed manure storage. BMP's installed will address manure storage (96,600 gallons) and milkhouse waste (20 gal/day). The storage size will be 60x65x15 feet deep for 210 days (97,161 cu ft). The amount of manure and wastewater generated is 726,768 gallons. There are currently 200 animal units; no expansions are planned for now or in the future. A Nutrient Management Plan will be developed for DeBaker after the manure storage, milk-house, underground outlets and roof runoff BMP installation in compliance with the Kewaunee County Animal Waste Storage Ordinance. This grant will address all pollution problems at the site.

3. Describe the expected environmental improvements.

How effective will this project be in solving the pollution problem(s) and water quality impacts described above? What is the expected percent reduction in pollutant loading or pollution potential after this project is completed? What is the compliance level with NR 151 PS&Ps that will be achieved with completion of this project and what will remain to be addressed? What is the potential for water quality improvement of the receiving water?

Through the construction of an USDA/NRCS approved 313 manure storage, all nutrients/manure will be contained and they will no longer be discharging to sensitive areas. A concrete lined manure storage will allow for proper nutrient application of manure/waste according to the Nutrient Management Plan.

Phosphorus and Nitrogen will be decreased and managed through a Nutrient Management Plan. Decrease in nutrient runoff into surface waters, ditches and groundwater will result after these practices are installed. The manure storage will also allow storage of nutrients during winter months and saturated fields in the spring/fall resulting in a lower chance of groundwater contamination.

H. Cost-Effectiveness

- 1. a. Explain how the proposed best management practices are a reasonable means to achieve NR 151 Performance Standards and Prohibitions (PS&Ps) or TMDL water quality goals. Include factors such as cost-effectiveness, site feasibility, available technical standards, and practicality. If applicable, include information to demonstrate that BMP(s) are sized to meet current and allowable insignificant growth needs of the operation (e.g. concrete pads for barnyards, feed storage, etc.) to achieve PS&Ps and water quality goals.

Manure/barnyard/milkhouse has to be collected. Water quality standards addressed in NR 151 include discharge of nutrients into road ditches, and areas where winter spreading should not be used. Storage will no longer create the need to winter spread, therefore, protecting surface water and groundwater. Cost-effectiveness of the project was determined by following the NRCS/USDA 313 technical standards for manure storage and barnyard, using the appropriate separation distances and sizing (attached is 313 spreadsheet).

- b. DNR requires that new or substantially altered manure storage facilities be designed to meet the applicable NR 151 PS&Ps. Typically, a manure storage facility that is designed and maintained to provide 180 days of storage is sufficient to meet NR 151 PS&Ps. The state share should be based only on the cost to construct a facility to meet NR 151 PS&Ps. Submit the WASTE STORAGE FACILITY DESIGN - 313 STANDARD worksheet or equivalent information to support the facility size and cost information submitted in this application.

The storage is sized for 7 months (210 days) because of the hard spring/winters that don't allow for farmers to spread

in Kewaunee County. Also due to an increase in well contamination events, lack of winter spreadable acres, location of karst topography, proximity to intermittent streams, surface waterways and a high water table, 210 day storage allows for adequate waste management. 7 months allows these nutrients to be used in correlation with the nutrient management plan to properly land apply.

-
2. If other alternative management measures were evaluated, list them here and describe why the alternative(s) is not being recommended.
The LWCD had to use what is allowed by the NRCS/USDA 313 standard, according to the soil types that are on site with a concrete lined design. DeBaker could go with an in place Pipping or Slurrystore, but they would be a higher cost than a concrete lined structure. An earthen or clay lined cannot be constructed due to the soil types and the USDA/NRCS 313 Standard guidelines.

I. Project Evaluation Strategy

1. Project Modeling and Measures of Change

Describe the strategy that will be implemented to evaluate the pre- and post-project pollution potential and pollutant loading data that is required for the Final Project Report. Describe the pre- and post-project evaluation modeling methods and measures that the applicant will use to measure success in achieving the NR 151 PS&Ps or TMDL project goals. See the instructions for lists of BMPs, PS&Ps, modeling and measurement methods and units of measure.

Prior to the installation of a concrete lined manure storage, manure was being hauled daily and milk-house waste was tilled out into an adjacent crop field. After the USDA/NRCS approved manure storage (7 months) construction, daily hauling will no longer be needed. Milk-house waste will be collected and pumped into the manure storage, allowing it to be stored and applied based on the Nutrient Management Plan that will be completed if this project is funded as per the Kewaunee County Animal Waste Storage Ordinance.

2. Water Quality Monitoring (not eligible for cost sharing at this time)

If, in addition to the above, the project evaluation strategy includes evaluating BMP effectiveness and/or pre- and post-project water resource monitoring, and the information will be provided to DNR, check all that apply below.

- a. A one-page summary of the project-specific BMP and/or water resource monitoring strategy is attached.
- b. The project will evaluate BMP pollution reduction effectiveness (e.g., inlet/outlet monitoring).
- c. The project will evaluate the in-stream physical habitat, fisheries, biological, or chemical conditions.
- d. The applicant is willing to participate with the Department to do monitoring in the project area should funding become available

J. Evidence of Local Support that currently exists for the proposed project - check the applicable situation below.

1. **Regulatory Situations** - The total project cost is attributed to the resolution of a Notice of Discharge (NOD) or a Notice of Intent to Issue an NOD (NOI) under NR 243 or non-compliance with agricultural performance standards and prohibitions under subch. II of NR 151 or a local regulation and *at least one* of the following is attached to this application form: (check all that apply).

- a. Signed and dated copy of the NOI or NOD issued under NR 243;
- b. Signed and dated copy of letter signed by the authorized DNR representative stating that DNR will issue a notice under NR 151 or NR 243;
- c. Signed and dated copy of letter from the authorized county representative that the local regulation will be enforced at the project site.

If you checked J.1., then go on to Question K. If this project is not regulatory, continue to number 2. of this question.

2. **Non-Regulatory Situations** - Check the applicable situation below.

- The governmental unit has:
 - a. Developed a detailed pollution control plan with the landowner(s)/land operator(s) that identifies specific BMPs and the affected landowner(s)/land operator(s) indicated that they will sign a cost-share agreement to install the practices requested in this grant application; **or**
 - b. Conducted general assessments of the pollution sources within the project area and affected landowner(s)/land operator(s) indicated a general interest to participate in the project; **or**

- c. Contacted the landowner(s)/land operator(s) about the proposed BMP installations; however, landowner(s)/land operator(s) participation is undetermined.
- d. If a. or b. is checked, letters of support for the project from affected landowner(s)/land operator are attached.

If a., b. or c. is checked above, provide details here.

We are working closely with DeBaker during the design process and they understand the environmental concerns of the current farm site and lack of winter spreadable acres. They want to construct a manure storage and if funded will sign a cost-share agreement.

3. Involvement of Partners - check box if applicable.

- Partners, in addition to the unit of government (applicant) and landowner, have committed resources (materials, equipment, staff or financial resources) towards the BMP installation, maintenance or evaluation of the project.

If checked, list the project partner(s).

- Letters from the project partner(s) indicating the resources they committed to support the project are attached. (Letters of resource support must be attached for a score here.)

K. Consistency with Other Resource Management Plans

- Check this box if the proposed project implements a water quality recommendation from a locally approved resource management plan. Examples include Smart Growth plans, Legacy Community plans, Water Star plans, local Storm Water Management plans, wellhead protection, lake management, regional water quality plans, Remedial Action plans and other watershed-based nonpoint source control plans.

(This question does not include a TMDL report or implementation plan, or a County Land and Water Resource Management Plan.)

Cite the name and date(s) of publication of the document. Attach pertinent page(s) or provide URL and page numbers. Summarize the water quality recommendation(s) and describe how it relates to the goals of this proposed project. (Required to earn credit for K.)

Part III. Eligibility for Local Enforcement Multiplier

Completion of Part III is optional. However, an applicant can increase the final project score by qualifying for a project multiplier. Check the one enforcement authority situation which best applies to the governmental unit applying for a TRM grant combined with the proposed project.

- The applicant certifies that it has local authority to enforce all state agricultural performance standards and prohibitions at all sites within the local jurisdiction where such state agricultural performance standards and prohibitions apply. Multiply the initial project score by a factor of 1.15.
- The applicant certifies that it has local regulations that give local authority to enforce most, but not all, of the state agricultural performance standards and prohibitions at all sites within the local jurisdiction where such state agricultural performance standards apply; and this project addresses an enforceable performance standard or prohibition. Multiply the initial project score by a factor of 1.10.
- The applicant certifies that it has local regulations that give local authority to partially enforce some of the state agricultural performance standards and prohibitions at some, but not all, of the sites within the local jurisdiction; and, this project addresses an enforceable performance standard or prohibition on a site under local jurisdiction. Multiply the initial project score by a factor of 1.05.
- Applicant has no local authority to enforce state agricultural performance standards and prohibitions within the local jurisdiction for this proposed project. No multiplier is earned.

Copies of ordinances for which credit is taken in this section are: (choose at least one)

Found at this website (provide most direct web page URL).

Attached to this application.

Already attached to another application for funding.

Optional Additional Information

Carefully review the answers to all of the questions above. Is there additional information that will add to the understanding of this project? If so, describe here.

Applicant Certification

A Responsible Government Official (authorized signatory) must sign and date the application form prior to submittal to the DNR. The governmental official with signatory authority must be the person authorized by the Governmental Responsibility Resolution. I certify that, to the best of my knowledge, the information contained in this application and attachments is correct and true.

Signature of Authorized Government Official.

Date Signed

Name (*Please Print*)

Davina Bonness

Title

County Conservationist

The required, completed Governmental Responsibility Resolution (signed in **blue ink**) (see [Attachment I](#)) is attached.

Submittal Directions

To be considered for funding, provide the following for each application submitted:

- One copy of the completed application form [DNR Form 8700-300 (R 1/15)] with **original signature in blue ink**, and all attachments.
- Three additional copies of the completed, signed application form and all attachments.
- One electronic copy of the completed application form in **PDF format only** plus all attachments and maps on CD.

All application materials must be postmarked by midnight **April 15 of the same calendar year**.

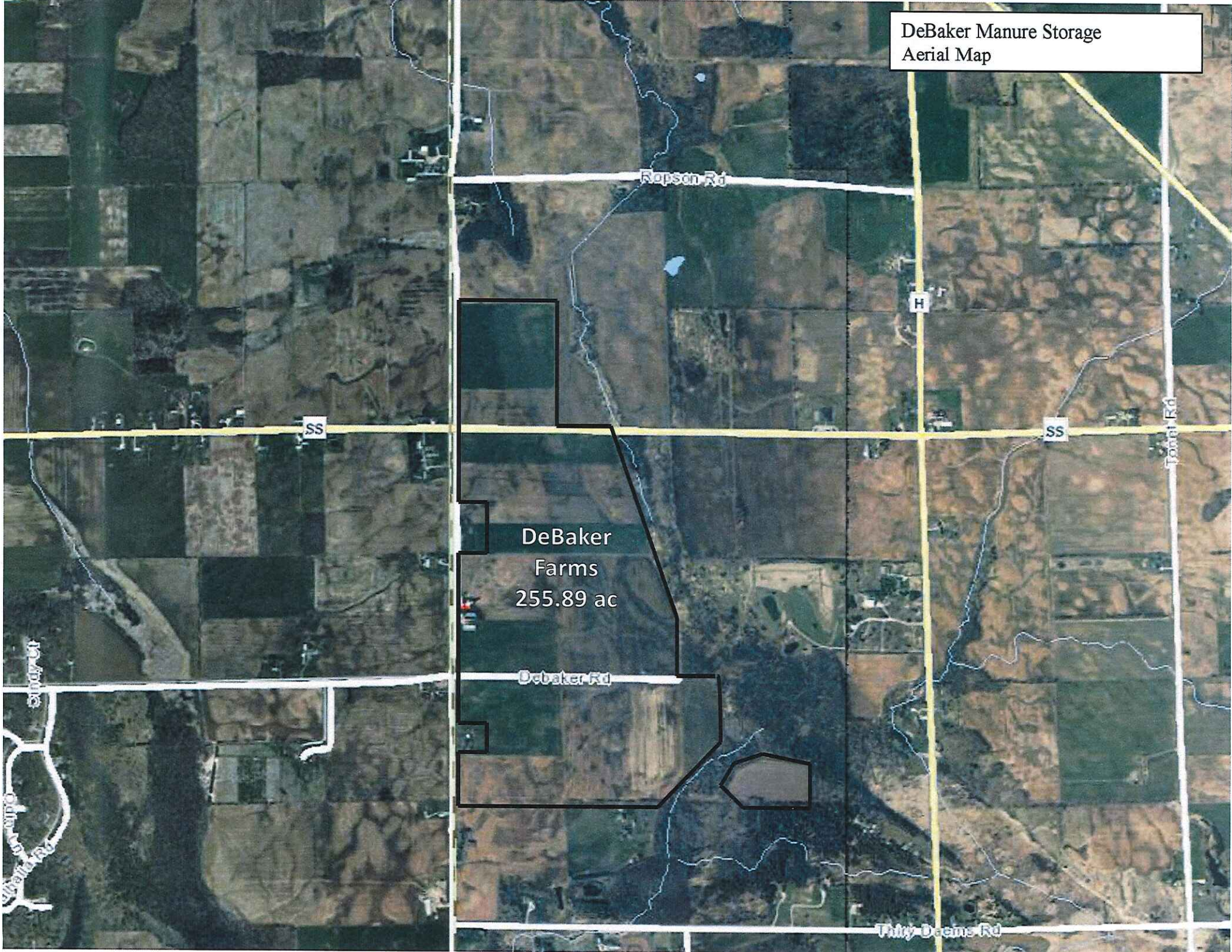
Send to: Department of Natural Resources
Runoff Management Section-WT/3
101 South Webster Street
Madison, WI 53703

or

PO Box 7921
Madison WI 53707-7921

Please use this page to write any constructive comment(s) you might have to improve this application.
Thank you.

DeBaker Manure Storage
Aerial Map



DeBaker
Farms
255.89 ac

Rapson Rd

H

SS

SS

Tully Rd

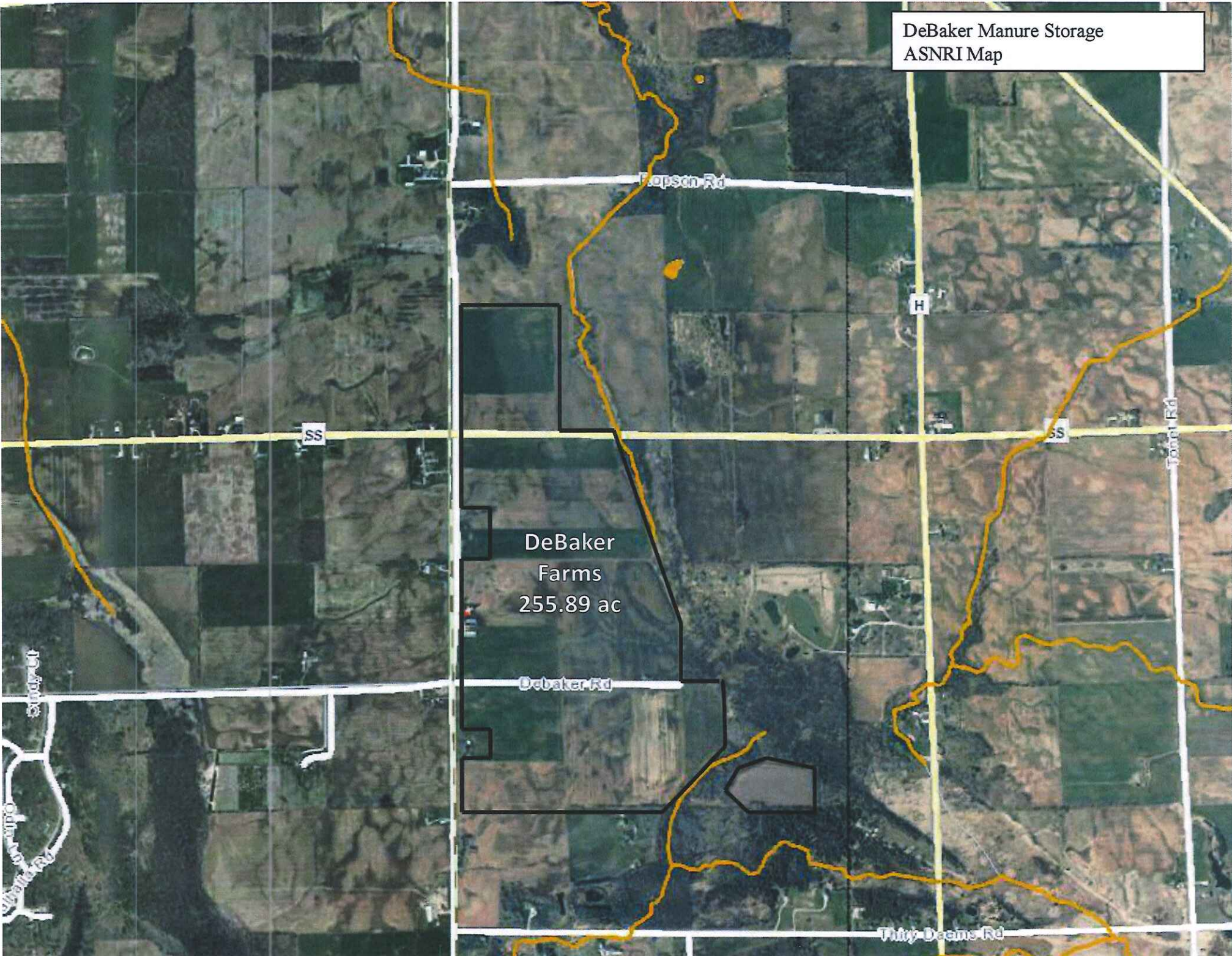
DeBaker Rd

Tilly Deems Rd

Snyder

Hillside Rd

DeBaker Manure Storage
ASNRI Map



DeBaker
Farms
255.89 ac

Hopsch Rd

H

SS

SS

Tomp Rd

DeBaker Rd

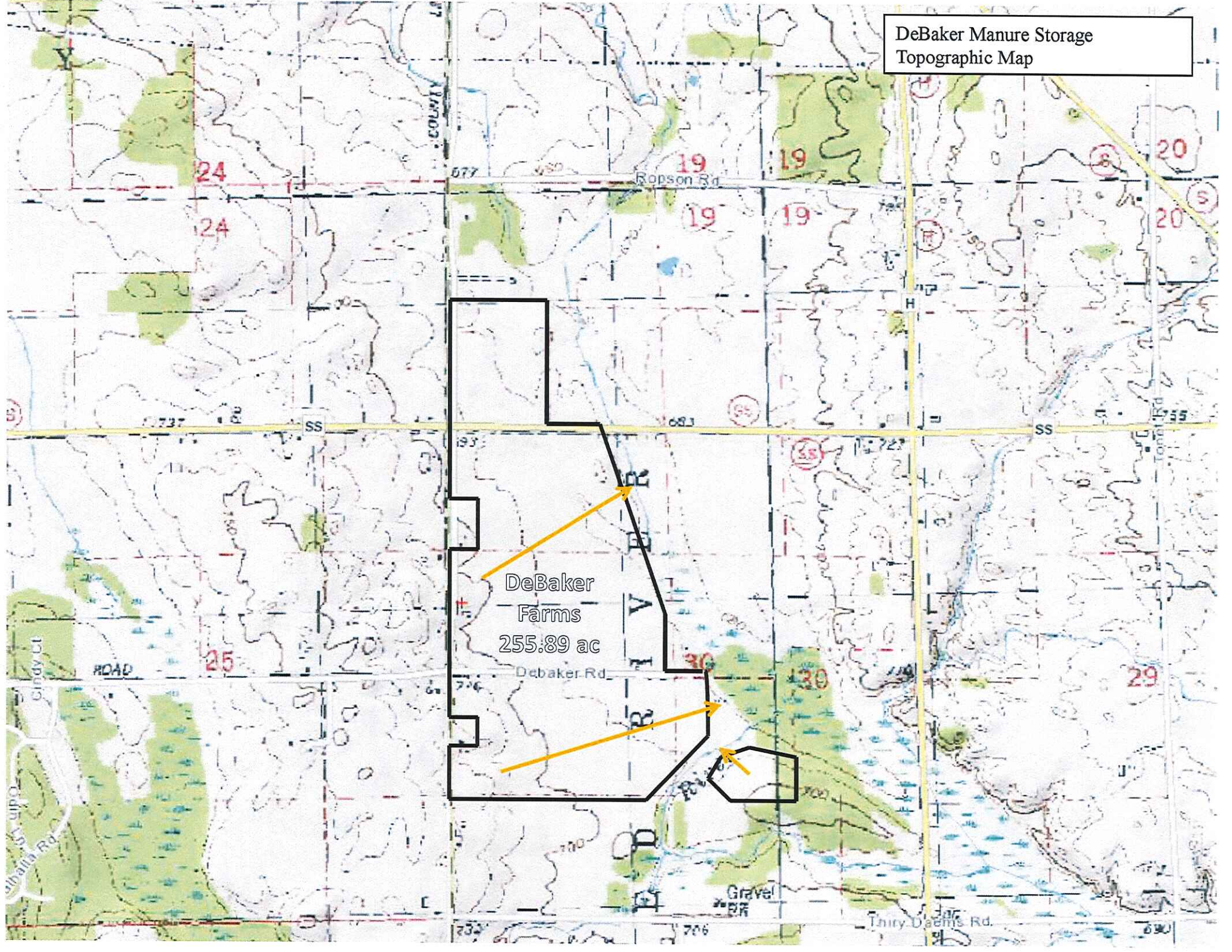
Tully Deems Rd

Sandpelt

O'Brien Rd

DeBaker Rd

DeBaker Manure Storage
Topographic Map

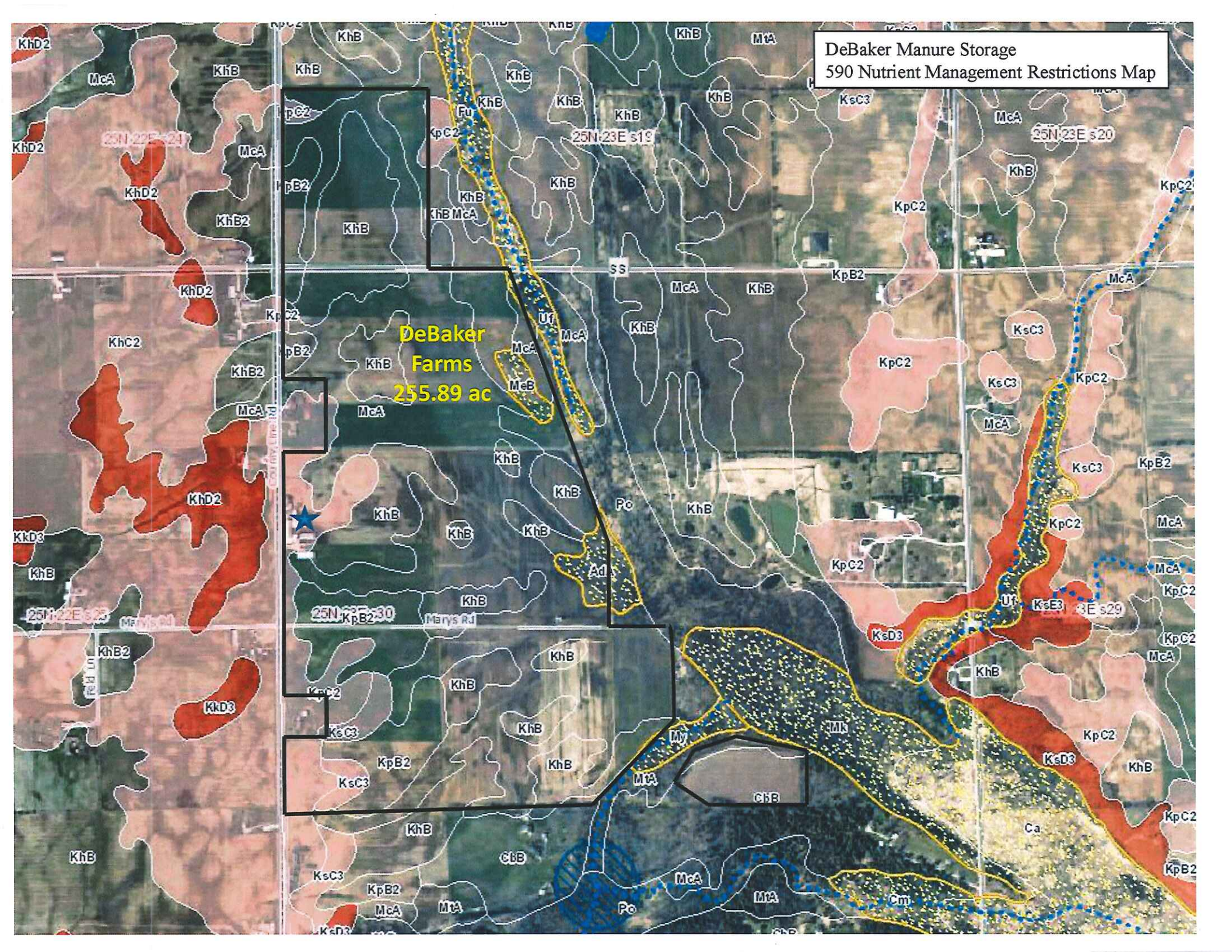


DeBaker
Farms
255.89 ac

Gravel
Pit

DeBaker Manure Storage
590 Nutrient Management Restrictions Map

DeBaker Farms
255.89 ac



DeBaker Manure Storage
Project Site Map



Roof
Gutters

Barnyard

Barnyard

Proposed
MS

Wisconsin 590 Nutrient Management Application Restrictions



Fall N Restrictions

SWQMA 300'/1000' Buffers (No Winter Application, Other Non-Winter Restrictions)

PLSS Sections

No Winter Application (slope > 12%)

Perennial Streams

Winter Restrictions (if slope > 9%)

Intermittent Streams

Sources:
USDA-NRCS SSURGO
2008 NAIP imagery
WI-DNR 24k Hydro
WI DOT Roads

0 750 1,500 Feet

Apr 05, 2011

This map has been developed utilizing the nutrient application restrictions from the September 2005 Wisconsin NRCS 590 Nutrient Management Practice Standard. This map is an initial inventory of nutrient spreading risks which must be field verified to identify other risk areas such as concentrated flow channels, wetlands, and conduits to groundwater. See the "Considerations" section of the 590 practice standard for additional planning suggestions.
<http://efotg.nrcs.usda.gov/references/public/WI/590.pdf>



Wisconsin 590 Nutrient Management Application Restrictions



Fall N Restrictions

No Winter Application (slope > 12%)

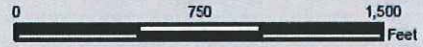
Winter Restrictions (if slope > 9%)

SWQMA 300'/1000' Buffers
(No Winter Application,
Other Non-Winter Restrictions)

Perennial Streams

Intermittent Streams

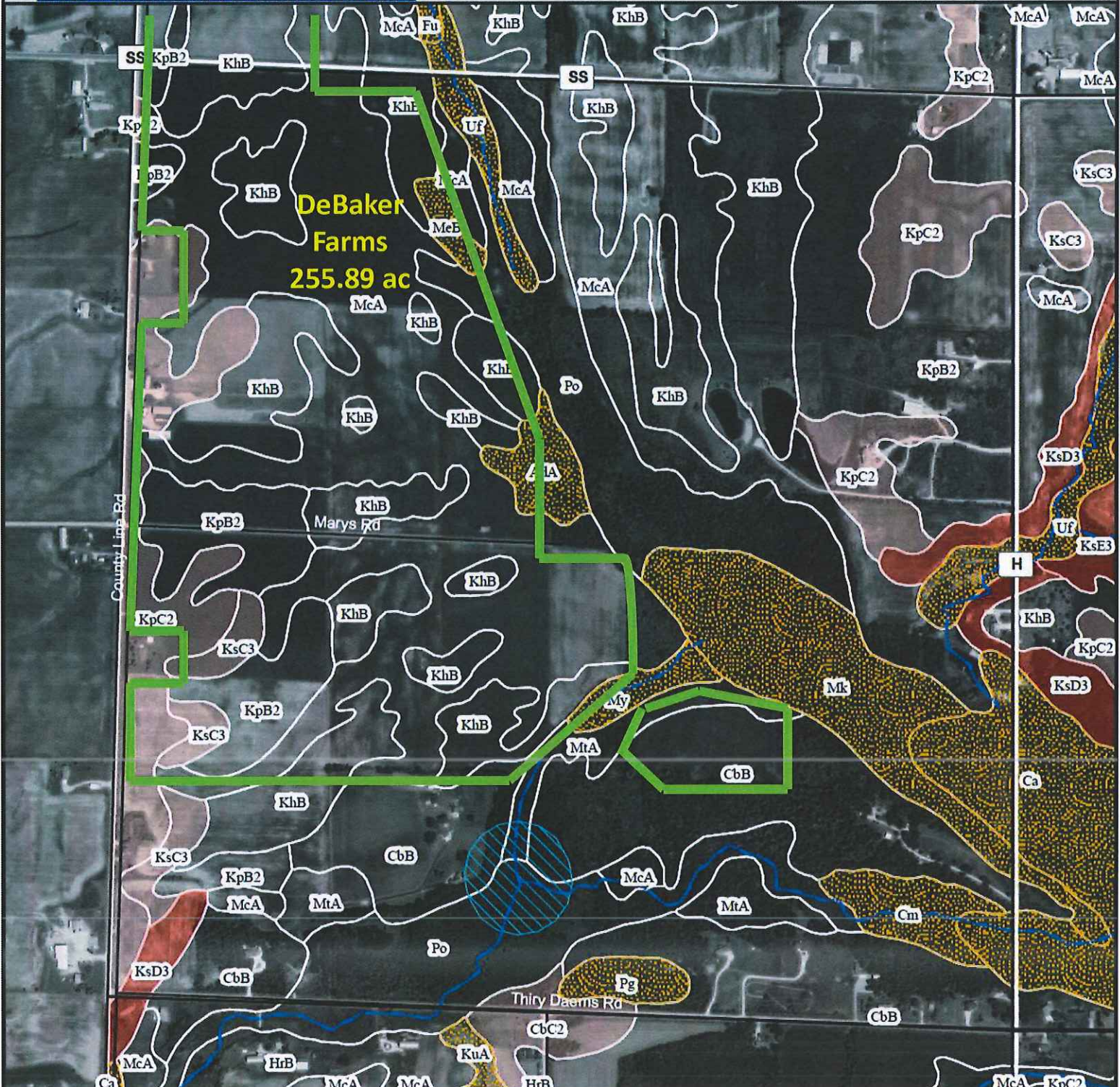
PLSS Sections



Sources:
USDA-NRCS SSURGO
2008 NAIP Imagery
WI-DNR 24k Hydro
WI-DOT Roads

This map has been developed utilizing the nutrient application restrictions from the September 2005 Wisconsin NRCS 590 Nutrient Management Practice Standard. This map is an initial inventory of nutrient spreading risks which must be field verified to identify other risk areas such as concentrated flow channels, wetlands, and conduits to groundwater. See the "Considerations" section of the 590 practice standard for additional planning suggestions.
<http://efotg.nrcs.usda.gov/references/public/WI/590.pdf>

Apr 05, 2011



Notice: This form must be completed and approved by the DNR before grant funds can be expended for land acquisition. Please complete all sections. Use additional page if necessary. Collection of this information is authorized under ss. 23.0915 - 23.0917, Wis. Stats. Failure to provide this information may result in denial or repayment of grant awards. Personal information collected on this form will be used for management of DNR programs and grants. Information may be made available to requesters under Wisconsin's Open Records laws (ss. 19.31-19.39, Wis. Stats.).

1. General Information

Applicant Name Kewaunee County Land and Water Conservation Department	Project / Parcel 31 018 30	County Kewaunee
Property Owner Name Nick DeBaker	Property Street Address N7966 County Line Road	

Close / Intersecting Roads

COUNTY LINE ROAD, COUNTY ROAD SS, THIRY DAEMS ROAD, COUNTY ROAD H

Legal Description:	1/4 / 1/4	1/4	Section(s)	Township	Range	E / W
	SW	NW	30	25	N	23E

2. Environmental Condition Statement of Property

Complete the checklist to the best of your knowledge through inspection of the site. Indicate if any of the following conditions currently exist on site:

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Known spills, release of chemicals, hazardous substances or fuels
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Dumps, debris piles, stockpiles of waste, containers, barrels or drums
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Sludge
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Discolored or odorous soil
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Areas of stressed vegetation, absence of vegetation, areas previously burned
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unusual or noxious odors
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Discolored, polluted, foul water (in standing water, wells, or wetlands)
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is an existing well located on site? If yes, where is it located? _____
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Old pipes, electrical equipment
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Unusual or irregular depressions or mounds on surface
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Other evidence of possible contamination – If yes, describe: _____

If the answer to any question above is yes:

- Attach description or explanation and site map showing location of item(s) checked.
- The property may require a Phase I or further investigation/inspection. Talk to your regional grant specialist listed in the application form.

3. Land Use History

A. Current Uses of the Property:

Industrial
 Commercial
 Agriculture
 Orchards
 Railroads and Railroad Spurs
 Landfills
 Other – Explain: _____

B. Historical Uses of the Property (for the past 20 years):

Industrial
 Commercial
 Agriculture
 Orchards
 Railroads and Railroad Spurs
 Suspected Former Landfills
 Other – Explain: _____

C. To the best of your knowledge does the property have evidence of the following?

Yes	No	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Has the site been used for the storage or warehousing of commercial or industrial materials?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are there areas with a history or likelihood of underground storage tanks?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Are there monitoring wells on site?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is there any history of contamination on the property?
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Is there any history of contamination on any <i>adjacent</i> properties?

If you checked any boxes in Sections 3A or 3B above, or answered yes to any question in Section 3C, the property may require a Phase I or further investigation/inspection. Talk to your regional grant specialist listed in the application form.

4. Site Investigation Documentation

Has a Phase I or Phase II Site Investigation been completed on the property? Yes No

If yes, attach a copy of the conclusions.

5. Certification

I hereby certify that I have inspected the property and contacted the current owner regarding environmental contamination. The information provided is a full disclosure of my findings and is true and complete to the best of my knowledge.

Printed Name of Preparer Sarah Hovis	Title Conservation Intern
---	------------------------------

Signature of Preparer	Date Signed
-----------------------	-------------

If you are submitting this form as a condition of a Nonpoint Targeted Runoff Management or Nonpoint Urban Storm Water–Construction grant, please also indicate the following:

Printed Name of Authorized Representative Davina Boness	Title County Conservationist
--	---------------------------------

Signature of Authorized Representative	Date Signed
--	-------------

Leave Blank – DNR Use Only

6. Search of DNR Records

A. Does the property appear on the most recent version of the Bureau of Remediation and Redevelopment Tracking System (BRRTS)? Yes No

If Yes, Site Name: _____ BRRTS Activity #: _____

B. Does the property appear on the most recent version of the DNR Registry of Waste Disposal Sites in Wisconsin? Yes No

If Yes, Site Name: _____

C. Does the property appear on the most recent version of the Solid and Hazardous Waste Information Management System (SHWIMS)? Yes No

If Yes, Site Name: _____

7. Conclusions

Based on the information available in DNR's Regional files at this time, no additional investigation recommended.

Further Investigation Needed; Consult with Region R&R Program for Recommendation

Printed Name of DNR Reviewer	Title
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Signature of DNR Reviewer	Date Signed
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