

State of Wisconsin
Runoff Management Section-WT/3
Department of Natural Resources
101 South Webster Street
Madison, WI 53703

PO Box 7921
or Madison WI 53707-7921

**Targeted Runoff Management (TRM) Grant Program
Small-Scale Agricultural Application**
Form 8700-300 (R 1/15)

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

Steffens Family Farm

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

Outagamie County Land Conservation Department

Governmental Unit Web Site Address

<http://www.outagamie.org/index.aspx?page=64>

Name of Responsible Government Official - Authorized Signatory (First Last)
Greg Baneck

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

Title

Title

County Conservationist

Area Code + Phone Number

(920) 832-5073

Area Code + Phone Number

E-Mail Address

greg.baneck@outagamie.org

E-Mail Address

Mailing Address - Street or PO Box

3365 West Brewster Street

Mailing Address - Street or PO Box

City

State

ZIP Code

City

State

ZIP Code

Appleton

WI

54914

WI

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>).
Lower Fox River TMDL

Provide a link to the report, if available.

http://dnr.wi.gov/topic/tmdls/foxriver/documents/LFR_TMDL_EPA_Submittal_Aug_2011.PDF

Provide the document page number(s) that identify the pollutants and sources being addressed by this project.
THE ENTIRE PLAN!!!! This is somewhat of a ridiculous question!

Pages - 1-2,10,14-18,23,32-34,36,38-40,102-103,105,119,122,124-126,129,135-136,140-144

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

B. Location of Project

See Attachment A and Surface Water Data Viewer (SWDV) at http://dnrm.wisconsin.gov/SWViewer=SWDV for assistance in completing this question.

Table with columns for County (Outagamie), State Senate District number (2), State Assembly District number (5), and a grid for Township, Range, E or W, Section, Quarter, Quarter-Quarter, Latitude, and Longitude.

Method for Determining Latitude & Longitude (check one)

- Radio button options: GPS, DNR Surface Water Data Viewer (selected), Other (specify):

C. Watershed and Waterbody

See Attachment A and SWDV at http://dnrm.wisconsin.gov/SWViewer=SWDV for assistance in completing this question.

Table with columns: Watershed Name (Lower Fox), DNR Watershed Code (LF10), Primary Waterbody Name (Duck Creek), Nearest Waterbody Name (Unnamed Trib to Duck Creek)

12-digit Hydrologic Unit Code (HUC): 040302040102

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.

- Three checkbox questions regarding endangered resources, archaeological sites, and wetlands in the project area.

E. Maps and Photographs

Yes

- Two checked checkbox questions about map attachments: an 8.5" x 11" map and aerial photo maps.

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

- Three checked checkbox questions regarding agricultural runoff control, BMP funding, and best management practices.

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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: 2010-2015 Outagamie County Land and Water Resource Management Plan - Plan extension to 2017	Date: 02/25/2014
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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.
Implementation of Agricultural Performance Standards
 1. Annually Inventory the top 10% of farms yet to be inventoried from the list (list generated based on several environmental factors)
 2. Bring non-compliant "priority" farms into compliance (as funding permits). Enforce as necessary to achieve compliance.
- 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.
<http://www.outagamie.org/index.aspx?page=208> Pages 46-67

- 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 Hanson	04/02/2015	2016 TRM Applications

- 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)

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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.

<i>Structural Practice (Wis. Adm. Code)</i>	<i>Enter Code #: Performance Std.(s) or Prohibition(s) the BMP Addresses</i>	<i>Structural Practice (Wis. Adm. Code)</i>	<i>Enter Code #: Performance Std.(s) or Prohibition(s) the BMP Addresses</i>
<input checked="" type="checkbox"/> Manure Storage Systems (NR 154.04(3)) R16	Code(s) 4,9,11,12	<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 type="checkbox"/> Barnyard Runoff Control Systems (NR 154.04(5)) R3	Code(s)	<input type="checkbox"/> Roof Runoff Systems (NR 154.04(27)) R24	Code(s)
<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 type="checkbox"/> Underground Outlets (NR 154.04(35)) R32	Code(s)
<input type="checkbox"/> Filter Strips (NR 154.04(13)) R9	Code(s)	<input checked="" type="checkbox"/> Waste Transfer Systems (NR 154.04(36)) R33	Code(s) code = 4
<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 checked="" type="checkbox"/> Milking Center Waste Control Systems R17	Code(s) 7	<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:	
Excavation - 8841 cu. yds.	19,892
6" Concrete liner - 11,600 sq. ft.	32,625
5" Concrete liner - 22,260 sq. ft.	58,433
Fence - 770 ft.	1,155
Seeding - 1 ac.	350
Sand piston pump - 1 ea.	28,000
12" 22.5 deg. Elbow - 2 ea.	700
12" PVC pipe - 420'	6,300
Pipe excavation - 420'	1,470
6" PVC pipe and fittings - job	2,600
Concrete thrust blocks - 5 ea.	400
26"x24" Concrete channel - 80'	4,800
Excavation for channel, tank, and pipe - job	1,981
Transfer auger - 80'	15,600
Barn cleaner retrofit - job	5,000
8'x8'x8' reception tank - 1 ea.	10,000
3/4" gravel backfill & base - 75 cu. yds.	750
6" c-900 PVC pipe - 336'	1,596
Pump - 1 ea.	10,000
Private Engineering Activities	
1. Construction Subtotal	201,652
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]	\$ 201,652	70 %	\$ 141,156
4. Property Acquisition: Fee Title & Easement	\$	70 %	\$
5. Project Grand Totals: [add Rows 3 and 4]	\$ 201,652		\$ 141,156

Cap Test:

6. Maximum State Share: [row 5, column D or \$150,000, whichever is less]	\$ 141,156
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State and Local Share:

7. Requested State-Share Amount (Enter Requested Grant Amount)	\$ 140,000
8. Local-Share Amount: [row 5, column B less row 7]	\$ 61,652

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.

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- 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	4/2015	LCD
Obtaining required permits	3/2016	LCD
Landowner contacts	1/2016	LCD
CSA signing	3/2016	LCD, Landowner
Bidding	3/2016	LCD, Landowner
DNR approvals	2/2016	DNR
Contract signing	4/2016	Landowner
BMP construction	5/2016	Contractor
Site inspection and certification	5/2016	LCD Staff
Project evaluation	12/2016	LCD Staff
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:
 Duck Creek
 Pollutant Causing Impairment:
 Total P and Suspended solids
- 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:
- 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://dnrmaps.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.

Duck/Apple/Ashwaubenon Creeks Priority Watershed

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).

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- Pike River and Creek
- Root River
- Oak Creek
- Milwaukee River
- Sauk Creek
- Sheboygan and Onion Rivers
- Manitowoc River

- Twin Rivers
- Kewaunee and Ahnapee Rivers
- Menominee River
- Fish Creek
- St. Louis and Nemadji Rivers
- 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.)

Currently, polluted runoff flows across a heavily used barnyard into an immediately adjacent waterway which eventually reaches the main stem of Duck Creek. Phosphorus and suspended solids washed from the heavy use area have nearly a 100% delivery rate to waters of the state. Estimated annual P delivery is currently at 109 pounds/year. Additionally, the farm currently has no facilities for storing their manure during periods of frozen/snow covered ground. This forces them to spread during times with less than ideal soil conditions which ultimately leads to additional nutrient runoff. The primary PS&P addressed by this project is direct runoff of manure from a feedlot to waters of the state. The approximate distance from that polluted runoff travels from the point of discharge to surface water is 25 feet. Peak discharge occurs during spring snowmelt/runoff as well as during periods of heavy precipitation during the non-frozen months of the year.

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 proposed project includes construction of a manure storage facility to contain all manure for the site. The operator intends to erect a new free-stall barn and eliminating all of the associated barnyards. Discharge will be taken from 109 pounds/year to 0. This project addresses existing cattle numbers for the site. The landowner intends to add some additional cattle in the coming years, however will still remain under 300 animal units. Language will be added to the contract with the landowner that they must always maintain the same duration of storage cost-shared, regardless the number of additional animal units.

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?

If funded, this project will reduce runoff from the site by 100% eliminating it as a contributing source in the Duck Creek Watershed. Since this site was nearly direct discharge into surface water, the reductions are definite. The farm will be brought into 100% compliance with PS&P's as well. While the Duck Creek Watershed is quite large in itself, the annual reduction of >100# of P should provide noticeable water quality improvement in the tributary into which discharge previously flowed.

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.

As proposed, the project will achieve a 100% reduction in runoff from the site for less than \$150K. The project has also applied for EQIP funding through the NRCS. If successful in obtaining EQIP, that Federal funding will be utilized first with TRM dollars being used to cover any shortfall costs of the project, bringing the state share down even lower.

Cost-sharing for the project is being based on 8 months of storage volume for the current number of cattle onsite. This will allow the operator the window of time necessary to safely apply manure and reduce risk of having to apply during questionable periods of soil moisture or frozen ground. As mentioned earlier, any future expansion will require a minimum of the same 8 month volume available for the number of AU on the farm.

- 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 high percentage of "hydric" soils on fields that this farm operates tend to leave fewer "spreadable" days available annually where application of manure can be done with limited risk of runoff. For this reason, we are requesting an additional 2 months of volume for the project to lengthen the window available for "safely" applying nutrients under ideal soil conditions. As mentioned earlier, part of the CSA will include language that farm must always maintain a minimum of 8 months of storage volume for livestock from this point forward. (The LCD promotes 12 months storage for all farms to provide maximum flexibility if conditions in a fall or spring are too wet to reasonable spread).

Monitoring data for Lower Fox TMDL has shown that up to 75% of the total P load is related to 5 major runoff events/year most of which fall between March - June. This can be partially attributed to manure being spread during "less than ideal" soil conditions. The fall of 2013 had particularly saturated or nearly saturated soil conditions throughout the area. Monitoring results during spring of 2014 showed some of the highest spikes in Total P delivery recorded since the monitoring stations were installed. The additional 2 months of storage volume allows more flexibility to help avoid these times.

-
2. If other alternative management measures were evaluated, list them here and describe why the alternative(s) is not being recommended.

A barnyard runoff control system was considered for the site, but the close proximity of the waterways to the site made fitting associated filter strips and spreader pads impossible. Moving the entire facility was not cost-effective.

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.

BARNY was used to determine what existing and post construction discharge will be. Based on the existing discharge levels and the practices being implemented, post construction discharge will be zero.

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.

Staff have been working with the landowner for quite some time. The landowner has agreed to install the practices voluntarily at this time to address PS&P issues for the farm. If this changes, the County will then pursue a more regulatory approach with the facility and issue a notice of non-compliance and follow the procedures outlined by County Ordinance to carry out enforcement.

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).

NRCS, DATCP

- 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.)

Lower Fox River Basin Integrated Management Plan - <http://dnr.wi.gov/water/basin/lowerfox/lowerfox.pdf>
Page - 30

Improve surface water and groundwater quality and identify water conservation opportunities.

- Significantly reduce phosphorus and sediment delivery to waterways from agriculture and construction sites.

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)

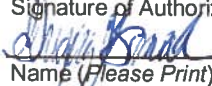
- Found at this website (provide most direct web page URL).
<http://www.outagamie.org/modules/showdocument.aspx?documentid=121>
- Attached to this application.
- Already attached to another application for funding.

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
		4/9/15
Name (Please Print)	Title	
Greg Baneck	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.

STEFFENS FAMILY FARM



WASTE STORAGE FACILITY DESIGN - 313 STANDARD

CLIENT: Steffens COUNTY: OUTAGAMIE DATE: 4/9/15
 DSN BY: EM CHK BY: _____ DATE: _____

COMMENTS:

ANIMAL TYPE> 1 (1=DAIRY, 2=BEEF, 3=VEAL, 4=SWINE(finishing), 5=SWINE(farrowing), 6=POULTRY, 0=OTHER)

For Dairy: Rolling Herd Average 25,000 lbs/cow/yr Is it a stanchion barn? n (Y or N)

MANURE AND WASTEWATER

LIVESTOCK		AVG. WT.	DAILY OUTPUT, CU FT			DAYS OF STORAGE	VOLUME REQUIRED	ANIMAL UNITS
KIND	NUMBER	PER HEAD	MANURE	BEDDING	TOTAL			
Cows	120	1,400	2.53	0.8	399.6	365	145,854	168
Dry Cows	20	1,400	2.24	0.1	46.8	365	17,082	28
Heifers	75	700	1.12	0.1	91.5	365	33,398	53

WASTEWATER: 955 GAL/DAY 127.7 CU FT/DAY 249 TOT. A.U.

TOTAL DAILY VOLUME: 665.6 CU FT / DAY

1,817,115	GALLONS
242,930	CU FT
9.4	%

Total Manure and Wastewater
 Expected % solids in waste (Includes runoff and precip.)

RUNOFF VOLUME

MONTHLY RUNOFF

RCN 95 21.8 IN. X 0 Ft² Drainage Area= 0 CU FT
 12 (Do not include storage area)

25-Year, 24-HOUR RUNOFF

RCN 95 3.83 IN. X 0 Ft² Drainage Area= 0 CU FT
 12 (Do not include storage area)

1,817,115	GALLONS
242,930	CU FT

Total for Manure, Milking Center, Runoff Volume, and 25 Yr Runoff

PRECIPITATION

Does the facility collect precipitation? (No. roof or lid) 1 (1 for yes, 2 for no)
 Beginning Month for Precip. Collection 11 (1=Jan, 2=Feb, etc.)

Precipitation minus evaporation		
Average Precipitation on Storage Surface	31.1 INCH	2.6 FT
Average Evaporation from Storage Surface	27.4 INCH	2.3 FT
Net Precipitation on Storage Surface	3.7 INCH	0.3 FT
25-Yr, 24-Hr Precip on Storage Surface	4.4 INCH	0.4 FT

REMAINING WASTE (If no sump, use these minimums: ponds -2', tanks-1') 0.0 FT

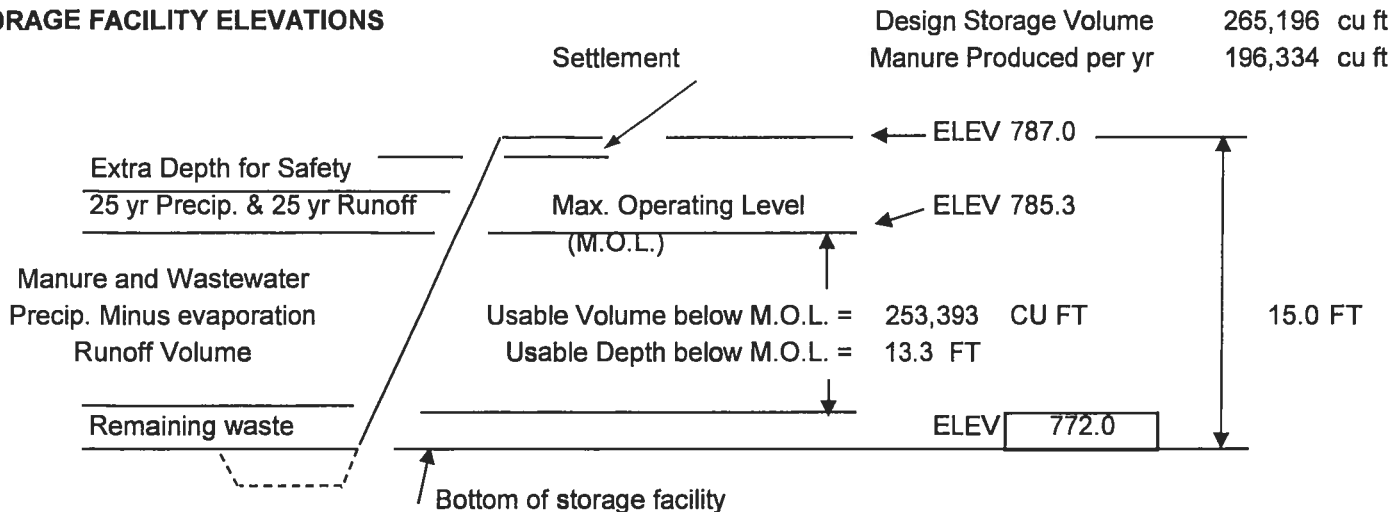
EXTRA DEPTH FOR SAFETY (1-ft. Minimum) 1.0 FT

SETTLEMENT (5% of Embankment Height) 0.3 FT

M.O.L. DEPTH (Depth to hold Manure, Wastewater, Runoff, and Precip.) 13.33 FT

Total Depth of the Storage Facility 15.0 FT

STORAGE FACILITY ELEVATIONS



STORAGE SIZING

IS STORAGE RECTANGULAR OR ROUND ? (1= Rectangular; 2= Round)

SIDE SLOPES OF STORAGE :1 (Use "0" for walls)

CHOOSE A BOTTOM WIDTH FT

BOTTOM LENGTH REQUIRED FT

ROUND STORAGE BOTTOM DIAMETER REQUIRED FT

STORAGE SIZING SUMMARY

RECTANGULAR	BOTTOM SIDE 1:	70 FT	
	BOTTOM SIDE 2:	147 FT	
	M.O.L. VOLUME PROVIDED:	253,393 CU FT	1,895,377 GALLONS
	DAYS STORAGE PROVIDED:	366 DAYS	
TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:		294,963 CU FT	2,206,322 GALLONS
ROUND	CHOOSE BOTTOM:	N.A. FT DIAM	
	M.O.L. VOLUME PROVIDED:	15,510 CU FT	116,016 GALLONS
	DAYS STORAGE PROVIDED:	22 DAYS	
	TOTAL VOLUME FROM BOTTOM TO SETTLED TOP:		20,790 CU FT

State of Wisconsin
 Department of Natural Resources
 PO Box 7185, Madison, WI 53707-7185
 dnr.wi.gov

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Current Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Current Animal Unit Calculation Numbers							
Name of Site:							
Animal Type	I. Mixed Animal Units			II. Non-mixed Animal Units			
	b. Equiv. factor	c. Current Number	d. No. of AUs	e. Equiv. factor	f. Current Number	g. No. of AUs	
Example - Broilers (non-liquid manure):	0.005 x	150,000	= 750	0.008 x	150,000	= 1200	
Dairy/Beef Calves (under 400 lbs)	0.20 x	20	= 4	<i>Fed. numbers in this column comply with 40 CFR s. 122.23</i>			
Dairy Cattle	Milking & Dry Cows	1.40 x	75	= 105	1.43 x	75	= 107.25
	Heifers (800 lbs to 1200 lbs)	1.10 x	35	= 38.5			
	Heifers (400 lbs to 800 lbs)	0.60 x	15	= 9	1.00 x	50	= 50
Beef	Steers or Cows (400 lbs to market)	1.00 x	5	= 5			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = (add all rows above) 1161.5			Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals) 157.25		

Check here if there are no proposed increases in animal numbers at this site within the next five years.

State of Wisconsin
 Department of Natural Resources
 PO Box 7185, Madison, WI 53707-7185
 dnr.wi.gov

Animal Unit Calculation Worksheet
Form 3400-025A (R 3/2012)

The Projected Animal Unit Calculation Worksheet must be filled out separately for the "main" site and each site which are owned or operated by your farm for the purposes of housing animals associated with your operation. The site name, for which you are filling this worksheet out, must be provided below and correlate with Form 3400-025 Site Information (Section II).

Projected Animal Unit Calculation Numbers

Name of Site:

Animal Type		I. Mixed Animal Units			II. Non-mixed Animal Units		
		b. Equiv. factor	c. Projected Number	d. No. of AUs	e. Equiv. factor	f. Projected Number	g. No. of AUs
Example - Broilers (non-liquid manure):		0.005 x	150,000	= 750	0.008 x	150,000	= 1200
Dairy/Beef Calves (under 400 lbs)		0.20 x	40	= 8	<i>Fed. numbers in this column comply with 40 CFR s. 122.23</i>		
Dairy Cattle	Milking & Dry Cows	1.40 x	140	= 196	1.43 x	140	= 200.2
	Heifers (800 lbs to 1200 lbs)	1.10 x	60	= 66			
	Heifers (400 lbs to 800 lbs)	0.60 x	25	= 15	1.00 x	85	= 85
Beef	Steers or Cows (400 lbs to market)	1.00 x	5	= 5			
	Bulls (each)	1.40 x		=	1.00 x		=
Veal Calves		0.50 x		=	1.00 x		=
Swine	Pigs (up to 55 lbs)	0.10 x		=	0.10 x		=
	Pigs (55 lbs to market)	0.40 x		=			
	Sows (each)	0.40 x		=			
	Boars (each)	0.50 x		=	0.40 x		=
Chickens	Layers (each) -non-liquid manure system	0.01 x		=	0.0123 x		=
	Broilers/Pullets (each) -non-liquid manure system	0.005 x		=	0.008 x		=
	Per Bird -liquid manure system	0.033 x		=	0.0333 x		=
Ducks	Ducks (each) -liquid manure system	0.2 x		=	0.2 x		=
	Ducks (each) -non-liquid manure system	0.01 x		=	0.0333 x		=
Turkeys (each)		0.018 x		=	0.018 x		=
Sheep (each)		0.1 x		=	0.1 x		=
Horses (each)		2 x		=	2 x		=
Total Animal Units:		Total Mixed Animal Units = (add all rows above) 290			Total Non-Mixed Animal Units = (Enter the single highest number from any row above; DO NOT add the totals) 285.2		

Date of Proposed Expansion (MM/YY):

2018

EXISTING BUFFER P OUTPUT (Based on BARNY)

Farmer: Steffens Planner/Designer: EM Date: 4/1/15
earth lot

	Input	Output	
Closest City of similar climate:	2		1 Madison 2 Appleton 3 Wausau 4 Eau Claire
Paved lot area:			sq ft
Earth lot area:	108,160		sq ft
Animal Lot size:		108,160	sq ft
Is there a designed settling basin?	2		Yes= 1; No= 2
Animals on lot:	75 number	50 number	
Type of animal:	1	1	(Dairy = 1;Beef=2)
Ave. Animal Weight:	1,400 lbs.	700 lbs	
Lot Use:	1		1= Heavy;2=Med;3= Light

TRIBUTARY AREAS

Tributary area: sq ft sq ft

Runoff Curve Number: ← See RCN tab below for typical values

Roof Trib. area: sq ft

109.0 lbs P per year at downstream lot edge

Enter Existing Buffer Data:

Length: 0 ft

Width: 0 ft

Buffer area:

Slope: 1 %

c value: 0.05 For c values see table below

P Output: 109.0 lb

STEFFENS FAMILY FARM



STEFFENS FAMILY FARM





United States Department of Agriculture

3369 W. Brewster Street
Appleton, WI 54914
Phone: (920) 733-1575 ext. 3
www.wi.nrcs.usda.gov

Dieter HS

1500

April 9, 2015

Greg Baneck – County Conservationist
Outagamie County Land Conservation Dept.
3365 West Brewster Street
Appleton, WI 54914

Subject – 2016 Targeted Runoff Management Grant Applications

Dear Mr. Baneck:

NRCS and the Outagamie County Land Conservation Department have a long history of working cooperatively towards protecting and improving the soil and water resources of Outagamie County. To that end, NRCS supports the LCD's 2016 TRM small scale grant applications for Albert, Verhasselt, Singler, Schroth, and Steffens farms. NRCS will assist where we can in the implementation of these grants.

Sincerely,

Lynn Szulczewski
NRCS District Conservationist
Appleton NRCS Service Center

April 9th, 2015

Attn: Greg Baneck
Outagamie County LCD
3365 W. Brewster St.
Appleton, WI 54913

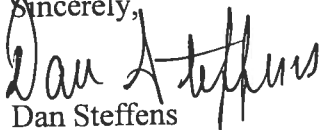
Subject: Targeted Runoff Management Grant Application

Dear Mr. Baneck,

I am writing you to express my interest in seeking funding through the DNR's Targeted Runoff Management Grant Program. Runoff from our animal lots has been a long standing concern for our farm which we would like to address. Additionally, our current daily haul system makes following a nutrient management plan difficult at best. Storage is required to avoid having to spread during periods of frozen and snow covered ground. Our proximity to Duck Creek makes the likelihood of polluted runoff during spring thaw and extreme storm events high.

If there's anything that I can do to further assist with the submission of the application for the TRM program, please contact me.

Sincerely,


Dan Steffens