Wisconsin Department of Natural Resources
Bureau of Watershed Management (WT/3)
101 S. Webster Street
PO Box 7921
Madison, WI 53707-7921
dnr.wi.gov

# Final Report

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs

Form 3400-189A (R 8/15) 

**NOTICE:** This document is required under s. 281.65, Wis. Stats., and chs. NR 153 and 154, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Targeted Runoff Management and Notice of Discharge Grant Programs and will not be used for any other purpose.

**INSTRUCTIONS:** Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

## Grant Type

Select Grant Type: Small Scale Non Total Maximum Daily Load (TMDL)

## Project Name & Location

| Project Name | | |
|---|---|---|
| Hellenbrand-Healy Projects | | |
| **Grant Number** | **Governmental Unit Name** | |
| TRC-LW-11000-14A | Columbia County Land & Water Conservation Dept. | |
| **County** | **Watershed Name** | **12-Digit HUC** |
| Columbia | Lake Wisconsin | |
| **Project Contact Name** | **Phone Number** | **E-mail Address** |
| Kurt R. Calkins | (608) 742-9670 | kurt.calkins@co.columbia.wi.us |

☐ For a project with multiple site locations, an aerial photo map is attached with each site location labeled.

## Site Location - 1

| Name of Cost-Share Recipient | Animal Units | Nearest Receiving Waterbody |
|---|---|---|
| John D. Healy | 179 | North Branch Duck Creek |

| Township | Range | E / W | Section | Quarter | Quarter/Quarter | Latitude | Longitude |
|---|---|---|---|---|---|---|---|
| 12 | 11 | E | 5 | NE | SE | 43.534399 | -89.214668 |

## Compliance Requirements - 1

| Chs. NR 151 or 243 Wis. Adm. Code Notice Type | Notice letter attached | Compliance achieved? If no, explain in site information | Compliance determination letter attached |
|---|---|---|---|
| NR 151 | ☒ | ◉ Yes ○ No | ☒ |

☒ Attached is a copy of the written statement the County provided to the landowner and cost-share recipient of the landowner's obligation to maintain compliance with performance standards & prohibitions on cropland and livestock facilities addressed by the cost-share agreement. Compliance at these sites must be maintained in perpetuity regardless of future cost sharing. The County has also placed a copy of this written statement in the County files.

## Summary of Results - 1

| Best Management Practice Installed | Quantity | Unit of Measure | Performance Standard/Prohibition Addressed | Total Installation Cost | Load Reduction Phosphorus lbs/yr | Load Reduction Nitrogen lbs/yr | Load Reduction Sediment Tons/yr |
|---|---|---|---|---|---|---|---|
| Manure Storage Systems | 1 | No. | Code(s) 6 | $107,215.3 | 150 | | |
| Critical Area Stabilization | 1.1 | Acres | Code(s) 12 | | 62 | | |

## Site Location Attachment - 1

Check the box if the required information for the site is attached:

☒ Photos of pre-and post-implementation of BMP(s)
☒ Load reduction modeling documents
☒ Aerial photo map of site with BMPs labeled
☐ Water quality monitoring results/summary, if applicable

## Site Information - 1

*Narrative space will expand to fit*

This is a dairy operation of 100-125 cows with heifers and young stock. The manure storage structure that this grant helped with in the elimination of a unlined storage/stacking area which was in very sandy soils in a drainage path estimated 600' from a wetland was one component of a much larger scale project installed in conjunction with the USDA-NRCS. The closure of the old manure/storage area was completed then a new manure storage structure was installed to ensure an estimate 8 months storage. This will allow manure to be properly stored and applied according to the nutrient

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management plan. Manure storage system is assumed to provide a minimum value of 150 lbs of P annual P runoff reductions based on average value of utilization of manure thru storage and NMP compliance.

☐ DNR may use this site as a success story to meet state and federal reporting needs.

**Additional Project Information and/or Comments**

*Narrative space will expand to fit*

**Grantee Certification**

A responsible government official (authorized signatory) must authorize and date the final report form prior to submittal to DNR.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments are correct and true.

| Name of Authorized Government Official | Title of Authorized Government Official | Date |
|---|---|---|
| Kurt Calkins | Director of Land & Water Conservation Department | 02/29/2016 |

**For DNR Use Only**

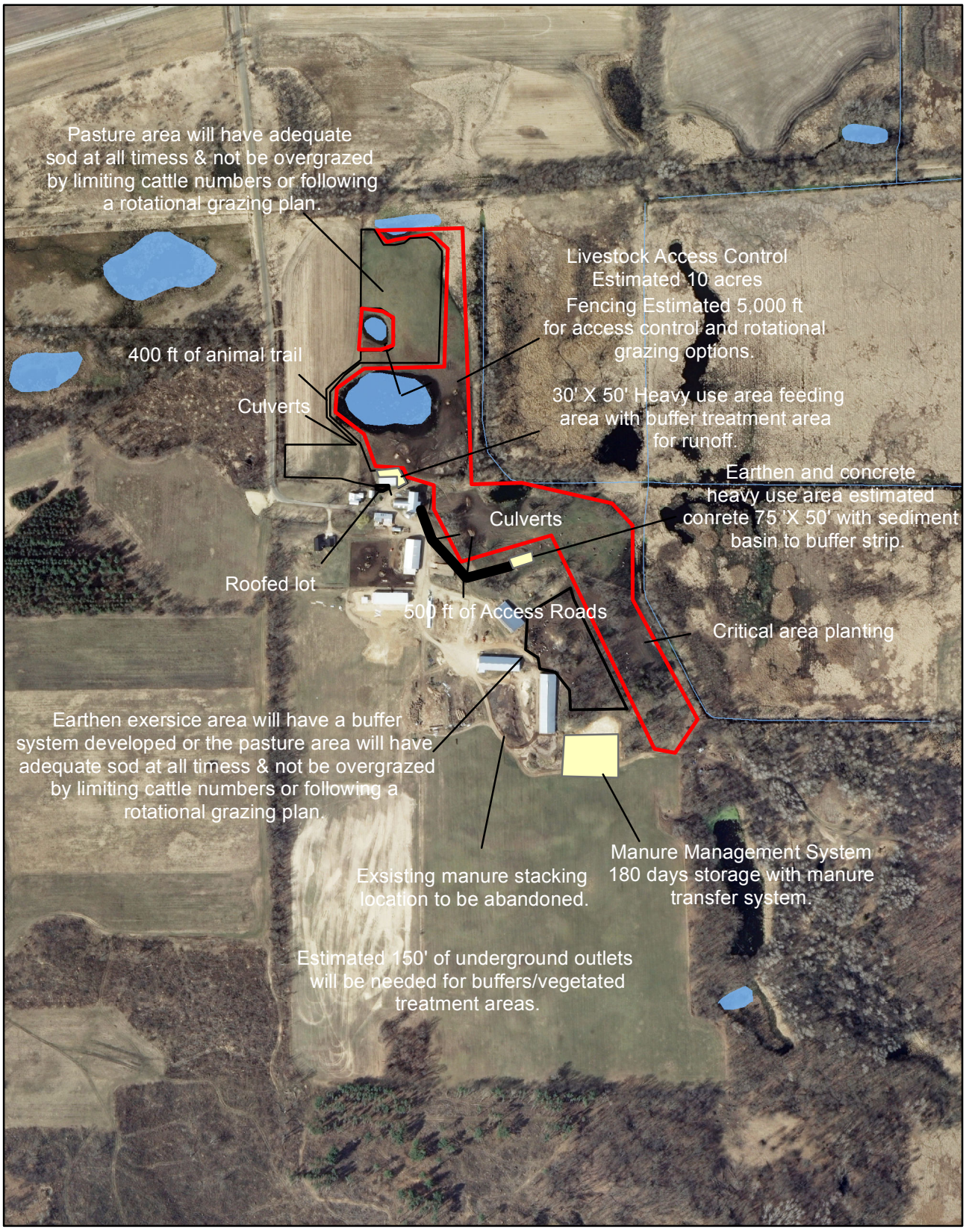
☒ Received complete reports with all attachments ☒ Practices implemented were consistent with the grant agreement

Comments about this project:

| Name of Region Nonpoint Source Coordinator | Date |
|---|---|
| Mike Gilbertson | 03/07/2016 |

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grant Coordinator. Keep a printed copy for the Region file.

# John Healy
# Project




N

0 245 490 980 Feet

Created By: Todd Rietmann
Columbia County
Land & Water Cons. Dept.
2007 Digital Ortho by :Columbia County
Land information Department

**Hellenbrand-Healy Small Scale TMDL TRM**
**Grant# TRC-LW-11000-14A**

Before Pictures:

Dry cow lot.

Unlined manure storage.

Unlined manure storage.

Youngstock area.

After Pictures:

New dry cow lot, filterstrip.

New youngstock cattle lane.

Closed manure storage.

New manure storage.

Re-seeded youngstock area.

# BUFFER DESIGN USING BARNY

OWNER: Healy  DESIGNER: TAR  DATE: 1/0/1900
CHK BY:  DATE:

| | Input | Output | |
|---|---|---|---|
| | | | 1 Madison |
| | | | 2 Appleton |
| Closest City of similar climate: | 1 | | 3 Wausau |
| | | | 4 Eau Claire |
| Paved lot area: | | | sq ft |
| Earth lot area: | 43,560 | | sq ft |
| Animal Lot size: | | 43,560 | sq ft |
| Is there a DESIGNED settling basin | 2 | | Yes= 1; No= 2 |
| Animals on lot: | 50 number | | number |
| Type of animal: | 1 | | ( Dairy = 1; Beef=2 ) |
| Ave. Animal Weight: | 900 lbs | | lbs |
| Lot Use: | 1 | | 1= Heavy; 2= Medium; 3= Light) |

TRIBUTARY AREAS

| | | |
|---|---|---|
| Tributary area: | sq ft | sq ft |
| Runoff Curve Number: | | |
| Roof area: | sq ft | |

Heifers Feeding Area Before Lot

38.2 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: lbs

Your choice based on impacted resources- Max is 15

BUFFERS - Size by trial and error

| | | |
|---|---|---|
| First Buffer | Length: | ft (See Note Below) |
| | Slope: | |
| | "c" : | → |
| Second Buffer | Length: | ft |
| | Slope: | |
| | "c" : | |

P (lbs) after the buffers: 38.2 lbs P per year

NO GOOD - Too much P released

| "c" Value Table | |
|---|---|
| Permanent Meadow | 0.59 |
| Woods, Heavy Litter | 0.59 |
| Woods, Lt Ltr | 0.29 |
| Well managed grazing | 0.44 |
| Fair managed grazing | 0.29 |
| Good Pasture | 0.22 |
| Fair Pasture | 0.15 |
| Small Grain | 0.29 |
| Legume | 0.29 |
| Contoured Row Crop | 0.29 |
| Non-contoured row crop | 0.05 |

BUFFER SIZING

| | | | |
|---|---|---|---|
| | | 43,560 sq ft | Min. Acceptable Buffer Area |
| Chosen Buffer Width | feet | | |
| | | 0 feet | Min. Bfr. Len. Based on BARNY |
| | | #DIV/0! feet | Min. Bfr. Len. Based on Area |
| Chosen Buffer Length | feet | #DIV/0! | |

# BUFFER DESIGN USING BARNY

OWNER: Healy | DESIGNER: TAR | DATE: 1/0/1900
CHK BY: | DATE:

| | Input | Output | |
|---|---|---|---|
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| | | | 4 Eau Claire |
| Paved lot area: | | | sq ft |
| Earth lot area: | 43,560 | | sq ft |
| Animal Lot size: | | 43,560 | sq ft |
| Is there a DESIGNED settling basin | 2 | | Yes= 1; No= 2 |
| Animals on lot: | 0 number | | number |
| Type of animal: | 1 | | ( Dairy = 1; Beef=2 ) |
| Ave. Animal Weight: | 900 lbs | | lbs |
| Lot Use: | 1 | | 1= Heavy; 2= Medium; 3= Light) |

TRIBUTARY AREAS

| | | |
|---|---|---|
| Tributary area: | sq ft | sq ft |
| Runoff Curve Number: | | |
| Roof area: | sq ft | |

Heifers Removed from Area & Seeded down

0.0 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: lbs

Your choice based on impacted resources- Max is 15

BUFFERS - Size by trial and error

| | | |
|---|---|---|
| First Buffer | Length: | ft (See Note Below) |
| | Slope: | |
| | "c" : | → |
| Second Buffer | Length: | ft |
| | Slope: | |
| | "c" : | |

P (lbs) after the buffers: 0.0 lbs P per year

GOOD - Buffer length, slope, and type is OK; proceed with final area sizing calcs below.

| "c" Value Table | |
|---|---|
| Permanent Meadow | 0.59 |
| Woods, Heavy Litter | 0.59 |
| Woods, Lt Ltr | 0.29 |
| Well managed grazing | 0.44 |
| Fair managed grazing | 0.29 |
| Good Pasture | 0.22 |
| Fair Pasture | 0.15 |
| Small Grain | 0.29 |
| Legume | 0.29 |
| Contoured Row Crop | 0.29 |
| Non-contoured row crop | 0.05 |

BUFFER SIZING

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|---|---|---|
| | 43,560 sq ft | Min. Acceptable Buffer Area |
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| Chosen Buffer Length | feet | #DIV/0! |

# BUFFER DESIGN USING BARNY

OWNER: Healy  DESIGNER: TAR  DATE: 1/0/1900
CHK BY:  DATE:

| | Input | Output | |
|---|---|---|---|
| | | | 1 Madison |
| | | | 2 Appleton |
| Closest City of similar climate: | 1 | | 3 Wausau |
| | | | 4 Eau Claire |
| Paved lot area: | | | sq ft |
| Earth lot area: | 12,000 | | sq ft |
| Animal Lot size: | | 12,000 | sq ft |
| Is there a DESIGNED settling basin | 2 | | Yes= 1; No= 2 |

| | | | |
|---|---|---|---|
| Animals on lot: | 20 | number | number |
| Type of animal: | 1 | | ( Dairy = 1; Beef=2 ) |
| Ave. Animal Weight: | 1,400 | lbs | lbs |
| Lot Use: | 1 | | 1= Heavy; 2= Medium; 3= Light) |

TRIBUTARY AREAS

| | | |
|---|---|---|
| Tributary area: | sq ft | sq ft |
| Runoff Curve Number: | | |
| Roof area: | sq ft | |

Dry Cow Lot Area Feeding

23.8 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: lbs

Your choice based on impacted resources- Max is 15

BUFFERS - Size by trial and error

| | | | |
|---|---|---|---|
| First Buffer | Length: | ft (See Note Below) | → |
| | Slope: | | |
| | "c" : | | |
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P (lbs) after the buffers: 23.8 lbs P per year

NO GOOD - Too much P released

| "c" Value Table | |
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| Legume | 0.29 |
| Contoured Row Crop | 0.29 |
| Non-contoured row crop | 0.05 |

BUFFER SIZING

| | | | |
|---|---|---|---|
| | | 12,000 sq ft | Min. Acceptable Buffer Area |
| Chosen Buffer Width | feet | | |
| | | 0 feet | Min. Bfr. Len. Based on BARNY |
| | | #DIV/0! feet | Min. Bfr. Len. Based on Area |
| Chosen Buffer Length | feet | #DIV/0! | |

# BUFFER DESIGN USING BARNY

OWNER: Healy  DESIGNER: TAR  DATE: 1/0/1900

CHK BY:  DATE:

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| | | | |
|---|---|---|---|
| Animals on lot: | 0 | number | number |
| Type of animal: | 1 | | ( Dairy = 1; Beef=2 ) |
| Ave. Animal Weight: | 1,400 | lbs | lbs |
| Lot Use: | 1 | | 1= Heavy; 2= Medium; 3= Light) |

## TRIBUTARY AREAS

| | | |
|---|---|---|
| Tributary area: | sq ft | sq ft |
| Runoff Curve Number: | | |
| Roof area: | sq ft | |

Dry Cow Area After

0.0 lbs P per year at D.S. Lot edge:

Maximum permissible P Output that can be released: lbs — Your choice based on impacted resources- Max is 15

## BUFFERS - Size by trial and error

| | | | |
|---|---|---|---|
| First Buffer | Length: | ft (See Note Below) | → |
| | Slope: | | |
| | "c" : | | |
| Second Buffer | Length: | ft | |
| | Slope: | | |
| | "c" : | | |

P (lbs) after the buffers: 0.0 lbs P per year

GOOD - Buffer length, slope, and type is OK; proceed with final area sizing calcs below.

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| Legume | 0.29 |
| Contoured Row Crop | 0.29 |
| Non-contoured row crop | 0.05 |

## BUFFER SIZING

12,000 sq ft — Min. Acceptable Buffer Area

Chosen Buffer Width  feet

0 feet — Min. Bfr. Len. Based on BARNY

#DIV/0! feet — Min. Bfr. Len. Based on Area

Chosen Buffer Length  feet  #DIV/0!

COLUMBIA COUNTY

Land & Water Conservation

608-742-9670
FAX: 608-742-9840
E-MAIL: land.conservation@co.columbia.wi.us
WEBSITE: www.co.columbia.wi.us

120 West Conant Street
P.O. Box 485
Portage, WI 53901

January 20, 2016

John D. Healy
N4297 county Hwy P
Cambria, WI 53923

RE: Satisfaction of NR151 Water Quality Performance Standard Issue's

John,

This letter is to inform you that your livestock operation has satisfied the notices of violations regarding the State of Wisconsin NR 151 Water Quality Performance Standards. Through your cooperation we were able to use Targeted Runoff Management funding to address issues related to **NR 151.05** (*Manure Storage Structure Performance Standards*), NR **151.055** (*Process Wastewater Handling Performance Standard*), **NR151.06** (*Clean Water Diversion Performance Standard*), **NR 151.07** (*Requirement to develop and land apply nutrients in accordance with a 590 Nutrient Management plan*), and **NR 151.08** (*Manure Management Prohibitions*). You are required to keep your facility in compliance with these provisions.

Should any questions come up or you see some challenges of management changes on the horizon, I urge you to contact our office as soon as possible so we can work with you to maintain compliance.

Thank you for your cooperation and financial input into this project. These projects are successful because of the collaboration between existing financial programs to assist farmers with these projects and commitment from landowners like you.

If you have questions feel free to contact me at 608-742-9675.

Sincerely,

Todd Rietmann

Todd Rietmann, Conservation Specialist
Columbia County Land & Water Conservation Dept.

COLUMBIA COUNTY
Land & Water Conservation

608-742-9670
FAX: 608-742-9840
E-MAIL: land.conservation@co.columbia.wi.us
WEBSITE: www.co.columbia.wi.us

120 West Conant Street
P.O. Box 485
Portage, WI 53901

January 20, 2016

John D. Healy
N4297 County Hwy P
Cambria, WI 53923

SUBJECT: Cost Sharing per (LWRM) Land & Water Resource Management

John,

Enclosed is the cost share reimbursement for the Waste Management Systems that you just completed on your property. See enclosed summary of eligible LWRM construction bills submitted. The cost share reimbursement is for $39,180.31 which was the maximum the grant allows.

You are required to follow all the operation and maintenance plans per each conservation practices installed. Per Columbia Animal Waste Management Ordinance you are required to maintain all safety features for your manure storage structure and also submit your nutrient management checklist yearly for your operation. Submittal of this checklist also allows you to maintain your eligibility for the Farmland Preservation Program.

If you have any more conservation needs for other conservation practices or questions, please call me at (608) 742-9670.

Thanks

Todd Rietmann

Todd Rietmann, Conservation Specialist
Columbia County Land & Water Conservation Dept.