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 05/16) Page 1 of 2

**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

Nowak Jordan Manura Storage

| Nowak, Jordan Manure Storage     |  |                                 |  |  |  |  |
|----------------------------------|--|---------------------------------|--|--|--|--|
| Grant Number                     | Governmen                                    | Governmental Unit Name          |  |  |  |  |
| TRC31000Y17C                     | Kewaunee                                     | Kewaunee County                 |  |  |  |  |
| County                           | Watershed Name                               | 12-Digit HUC                    |  |  |  |  |
| Kewaunee                         | Kewaunee River                               | 040301020304                    |  |  |  |  |
| Project Contact Name             | Phone Number                                 | E-mail Address                  |  |  |  |  |
| Davina Bonness                   | (920) 845-9743                               | bonness.davina@kewauneeco.org   |  |  |  |  |
| For a project with multiple site | locations, an aerial photo map is attached w | ith each site location labeled. |  |  |  |  |

| Site Location   | on - 1 👘  |                | V.             |   |              |  |                    |                                      |                              |   |                |         |
|---|---|----------------|----------------|---|--------------|--|--------------------|--------------------------------------|------------------------------|---|----------------|---------|
| Name of Co  | st-Share R  | Recipient      |                |   |              | _  | Animal Units       |                                      | Neares                       | st Receiving  | Waterbody      |         |
| Jordan & J  | ennifer N   | owak           |                |   |              |  | 70                 |                                      | Casco                        | Creek   |                |         |
| Township  | Range   | E/W            | Section        |   | Quarter      |  | Quarter/Qua        | arter                                | 1                            | Latitude Longitu  |                | igitude |
| 25  | 24  | Е              | 18             |   | SE           |  | NW                 |                                      | 2                            | 44.6374 -87.6325  |                |         |
| Compliance  | e Require   | ments - 1      | Ng Nan Star St |   | n ing sa     |  |                    |                                      |                              |   |                |         |
| Chs. NR 151 or 243 Wis. Adm. Code Notice letter<br>Notice Type attached   |   |                | Con            | mpliance achieved? If no,     Compliance       ∢plain in site information     letter a       ● Yes     No |              |  |                    |                                      | nce determin<br>ter attached | e determination<br>attached                             |                |         |
| 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. |   |                |                |   |              |  |                    | owner's<br>ssed by the<br>The County |                              |   |                |         |
| Summary o   | f Results   | -1             |                |   |              |  |                    | ļ                                    |                              |   |                |         |
| Best Management Practice Installed  |   | d              | Quantity       | Unit of<br>Measure  | P<br>Stan    | 'erformance<br>dard/Prohibition<br>Addressed | To<br>Instal<br>Co | otal<br>Ilation<br>ost               | Lo<br>Phosphorus<br>Ibs/yr   | Load Reduction<br>s Nitrogen Sediment<br>lbs/vr Tons/vr |                |         |
| Barnyard Ru   | rnyard Runoff Control Systems 1   |                |                | No.   | Code         | e(s)   | \$7,               | 327.09                               | 294.3                        | 960   | 0              |         |
| Manure Stora  | ige System  | S              |                | 1   | No.          | Code<br>4                                    | e(s)               | \$62,                                | 369.12                       | w/above   | w/above        | 0       |
| Site Location   | on Attach   | ment - 1       |                |   |              |  |                    |                                      |                              |   |                |         |
| Check the b   | ox if the re  | quired inform  | nation for th  | e site is a   | attached:    |  |                    |                                      |                              |   |                |         |
| Photos  | of pre-and  | post-implem    | entation of    | BMP(s)  |              | $\geq$                                       | 🔇 Load reducti     | ion mor                              | deling c                     | locuments   |                |         |
| Aerial p  | hoto map (  | of site with B | MPs labele     | d   |              |  | ] Water qualit     | y moni                               | toring r                     | esults/summ   | ary, if applic | able    |
| Site Informa  | ation - 1   | na prime e     |                |   | ayang Sayara |  |                    |                                      |                              |   |                |         |
| Narrative sp  | ace will ex   | pand to fit    |                | •   |              |  |                    |                                      |                              |   |                |         |
| There was a   | There was no need for roof gutters since the landowner added onto the barn and roofed the area where the gutters were |                |                |   |              |  |                    |                                      |                              |   |                |         |
| going to be   | placed.   |                |                |   |              |  |                    |                                      |                              |   |                |         |
|   |   |                |                |   |              |  |                    |                                      |                              |   |                |         |

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#### **Final Report** Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs Form 3400-189A (R 05/16) Page 2 of 2

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

Comments about this project:

None

#### **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

 Davina Bonness
 County Conservationist
 01/03/2018

| For DNR Use Only   | tt verkendet ender Andelan Angelag   |         | n fall a far fri fall fall a fall a star et<br>Anna a star fall fall a fall a star fall a star fall a star fall a   |  |  |
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| Received complete I  | reports with all attachments   | X Pract | ices implemented were c   | onsistent with the   | e grant agreement                        |

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| Name of Region Nonpoint Source Coordinator   | Date  |
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# **Kewaunee County**

# LAND & WATER CONSERVATION DEPARTMENT

#### 1/3/2018

Nowak Trust N8620 Tamarack Road Casco, WI 54205

#### Subject: Compliance of Performance Standards and Prohibitions

Dear Mr. Nowak,

Thank you for your most recent efforts to improve and protect our state's water resources. This letter is to acknowledge that you have successfully implemented nonpoint source pollution control best management practices on your farm through a Targeted Resource Management cost-share agreement (# TRC-31000-Y17C) grant. Installing practices under this cost share agreement has brought you into compliance with performance standards and prohibitions as described below.

| Name and Citation of                        | Identification of Parcel Where      |  |  |  |  |
|---|-------------------------------------|--|--|--|--|
| Standard/Prohibition                        | Compliance Was Achieved             |  |  |  |  |
| Manure Storage Facilities new/significantly | T25N R24E Sec.18 NW1/4 of the SE1/4 |  |  |  |  |
| altered NR 151.05 (2)                       | Parcel 31 010 18.14                 |  |  |  |  |
| Clean Water Diversion                       | T25N R24E Sec.18 NW1/4 of the SE1/4 |  |  |  |  |
| NR 151.06                                   | Parcel 31 010 18.14                 |  |  |  |  |
| Process Wastewater Handling                 | T25N R24E Sec.18 NW1/4 of the SE1/4 |  |  |  |  |
| NR 151.055                                  | Parcel 31 010 18.14                 |  |  |  |  |

In accordance with ch. NR 151, Wis. Adm. Code, any cropland practice or livestock facility that is brought into compliance with a state performance standard /prohibition must remain in compliance in perpetuity regardless of future cost sharing. Since you are now deemed in compliance with state standards and prohibitions as identified above, it is required that you and any future landowners or operators maintain compliance with the standards and prohibitions at the parcels identified.

This letter only addresses the compliance status on your farm resulting from practices installed under the cost share agreement identified above. There may be additional information on file for your farm concerning your compliance status with state performance standards and prohibitions. If you have any questions, please contact Davina Bonness at 920-845-9743.

Sincerely,

Emper

Davina Bonness County Conservationist CC: DNR regional office

## Kewaunee County – Nowak TRM Project - STEPL model analysis (version 4.4) Completed by: Andrew Craig – WDNR Watershed Planner – 12-26-2017

#### TRM Practices Adopted on 100 cow dairy farm with 65 cropland acres

- 1. NMP (rate + other considerations) on 80% of cropland acres
- 2. Barnyard/Feedlot Improvements to 0.8 acres and Manure Storage (7 months)
- 3. Reduced Manure Spreading (from 12 to 6 months)

## **Baseline Pollutant Load** No cropland or feedlot practices and 12 months manure application

| Watershed | N Load (no<br>BMP) | P Load (no<br>BMP) | BOD Load<br>(no BMP) | Sediment<br>Load (no<br>BMP) | E. coli Load<br>(no BMP) |  |
|-----------|--------------------|--------------------|----------------------|------------------------------|--------------------------|--|
|           | lb/year            | lb/year            | lb/year              | t/year                       | Billion MPN/y            |  |
| W1        | 2538.3             | 689.6              | 3757.4               | 64.2                         | 0.0                      |  |
| W2        | 0.0                | 0.0                | 0.0                  | 0.0                          | 0.0                      |  |
| Total     | 2538.3             | 689.6              | 3757.4               | 64.2                         | 0.0                      |  |

# Pollutant Load with Practices

Feedlot and Manure Storage System, NMP and 6 months manure application

| N Load     | P Load     | BOD (with | Sediment   | E. coli Load  |  |
|------------|------------|-----------|------------|---------------|--|
| (with BMP) | (with BMP) | BMP)      | Load (with | (with BMP)    |  |
|            |            |           | BMP)       |               |  |
| lb/year    | lb/year    | lb/year   | t/year     | Billion MPN/y |  |
| 1578.3     | 395.4      | 3757.4    | 64.2       | 0.0           |  |
| 0.0        | 0.0        | 0.0       | 0.0        | 0.0           |  |
| 1578.3     | 395.4      | 3757.4    | 64.2       | 0.0           |  |

### Reductions

| N Reduction | P Reduction | BOD<br>Reduction | Sediment<br>Reduction | E. coli<br>Reduction | %N<br>Reduction | %₽<br>Reduction | %BOD<br>Reduction | %Sed<br>Reduction | %E. coli<br>Reduction |
|-------------|-------------|------------------|-----------------------|----------------------|-----------------|-----------------|-------------------|-------------------|-----------------------|
| lb/year     | lb/year     | lb/year          | t/year                | Billion MPN/y        | %               | %               | %                 | %                 | %                     |
| 960.0       | 294.3       | 0.0              | 0.0                   | 0.0                  | 37.8            | 42.7            | 0.0               | 0.0               | 0.0                   |
| 0.0         | 0.0         | 0.0              | 0.0                   | 0.0                  | 0.0             | 0.0             | 0.0               | 0.0               | 0.0                   |
| 960.0       | 294.3       | 0.0              | 0.0                   | 0.0                  | 37.8            | 42.7            | 0.0               | 0.0               | 0.0                   |

#### STEPL - USLE – Kewaunee County Averages

| NAME     | STATE_NAME | FIPS  | LAND USE               | Ravg | Kavg | LSavg | Cavg | Pavg |
|----------|------------|-------|------------------------|------|------|-------|------|------|
| Kewaunee | Wisconsin  | 55061 | Cropland-cultivated    | 90   | 0.34 | 0.445 | 0.14 | 0.96 |
| Kewaunee | Wisconsin  | 55061 | Cropland-noncultivated | 90   | 0.35 | 0.66  | 0.08 | 0.94 |
| Kewaunee | Wisconsin  | 55061 | Pastureland            | 90   | 0.33 | 0.921 | 0.01 | 1    |
| Kewaunee | Wisconsin  | 55061 | Forest land            | 90   | 0.31 |       |      |      |





