

Final Report

Agricultural Targeted Runoff Management & Notice of Discharge Grant Programs

Form 3400-189A (R 8/15)

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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 Large Scale Total Maximum Daily Load (TMDL) | | | | | | | |
| Project Name & Location | | | | | | | |
| Project Name Ashwaubenon Creek Sediment | | | | | | | |
| Grant Number TMD-L/LF02/44000-12 D | | | | Governmental Unit Name Outagamie County | | | |
| County Outagamie | | Watershed Name Apple/Ashwaubenon Creeks | | | 12-Digit HUC 040302040403 | | |
| Project Contact Name Elly Magdanz | | | Phone Number (920) 832-6057 | | E-mail Address elly.magdanz@outagamie.org | | |
| <input type="checkbox"/> 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 Michael & Carolyn VanAsten | | | | | Animal Units 175 | Nearest Receiving Waterbody South Branch Ashwaubenon Creek | |
| Township 22 | Range 19 | E / W W | Section 16 | Quarter NW | Quarter/Quarter NW | Latitude 44.383571 | Longitude -88.210117 |
| Compliance Requirements - 1 | | | | | | | |
| Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151 | | Notice letter attached <input checked="" type="checkbox"/> | Compliance achieved? If no, explain in site information <input checked="" type="radio"/> Yes <input type="radio"/> No | | | Compliance determination letter attached <input checked="" type="checkbox"/> | |
| <input checked="" type="checkbox"/> 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 | Nitrogen lbs/yr | Sediment Tons/yr |
| Manure Storage Systems | 1 | No. | Code(s) 11 | \$41,431.34 | | | |
| Barnyard Runoff Control Systems | 1 | No. | Code(s) 12 | \$4,355.00 | 30 | | |
| Nutrient Management | 360 | Acres | Code(s) 9 | | | | |

| Site Location Attachment - 1 | |
|---|--|
| Check the box if the required information for the site is attached: | |
| <input checked="" type="checkbox"/> Photos of pre-and post-implementation of BMP(s) | <input checked="" type="checkbox"/> Load reduction modeling documents |
| <input checked="" type="checkbox"/> Aerial photo map of site with BMPs labeled | <input type="checkbox"/> Water quality monitoring results/summary, if applicable |

| Site Information - 1 |
|------------------------------------|
| Narrative space will expand to fit |

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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 |
|--|---|------------|
| Gregory J Baneck <i>MS</i> | County Conservationist | 01/07/2016 |

For DNR Use Only

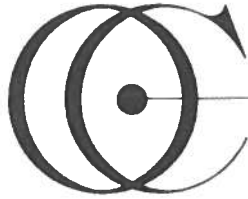
Received complete reports with all attachments Practices implemented were consistent with the grant agreement

Comments about this project:

None

| Name of Region Nonpoint Source Coordinator | Date |
|--|----------------|
| <i>Jim Hanson</i> | <i>1/14/16</i> |

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.



OUTAGAMIE COUNTY
LAND CONSERVATION DEPARTMENT

3365 W. BREWSTER ST. APPLETON, WISCONSIN 54914-1602
PHONE (920) 832-5073 FAX (920) 832-4783

December 15, 2015

AG ID #: 15996
MICHAEL & CAROLYN VANASTEN
N4032 MCCABE RD
KAUKAUNA, WI 541300000

Dear Mr. & Mrs. MICHAEL & CAROLYN VANASTEN:

The purpose of this letter is to acknowledge that you have implemented the necessary corrective actions to comply with the Notice of Non-Compliance dated 6/4/2014 for your property described as;

W80AC OF N200AC OF N FR 1/2 SEC16 LESS HY SEC16 T22N R19E 79.62AC M/L.

The department has determined the installed practice at your operation to be adequate to meet Agricultural Performance Standards and Prohibitions on the area described below.

As a result of installing the best management practices necessary to comply with the Notice, the department has determined that you are now in compliance with the following

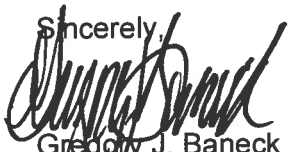
Per NR 151.08 (3), "A livestock operation shall have no unconfined manure pile in a water quality management area."

Per NR 151.08 (4), "A livestock operation shall have no direct runoff from a feedlot or stored manure into the waters of the state."

In accordance with Outagamie County Chapter 4, Agricultural Performance Standards and Animal Waste Storage Ordinance as well as Chapter NR 151, Wisconsin Administrative Code, any practice or facility that is in compliance with a Performance Standard or Prohibition on or after the effective date of the standard or prohibition, must remain in compliance regardless of whether cost-sharing is provided to the owner or operator. Since you are now deemed in compliance with the Performance Standards and Prohibition for this site listed above, it is imperative that you and any future owners or operators maintain compliance with them.

Your efforts in this matter have contributed to improved water quality within Outagamie County. If you have any further questions or concerns, please contact me at (920) 832-5073.

Sincerely,


Gregory J. Baneck
County Conservationist

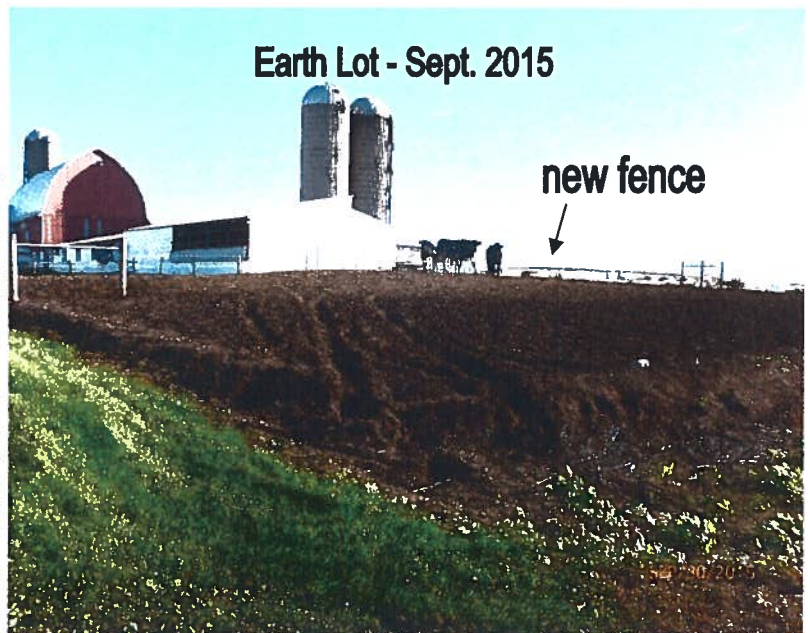
MIKE VANASTEN - EARTH LOT



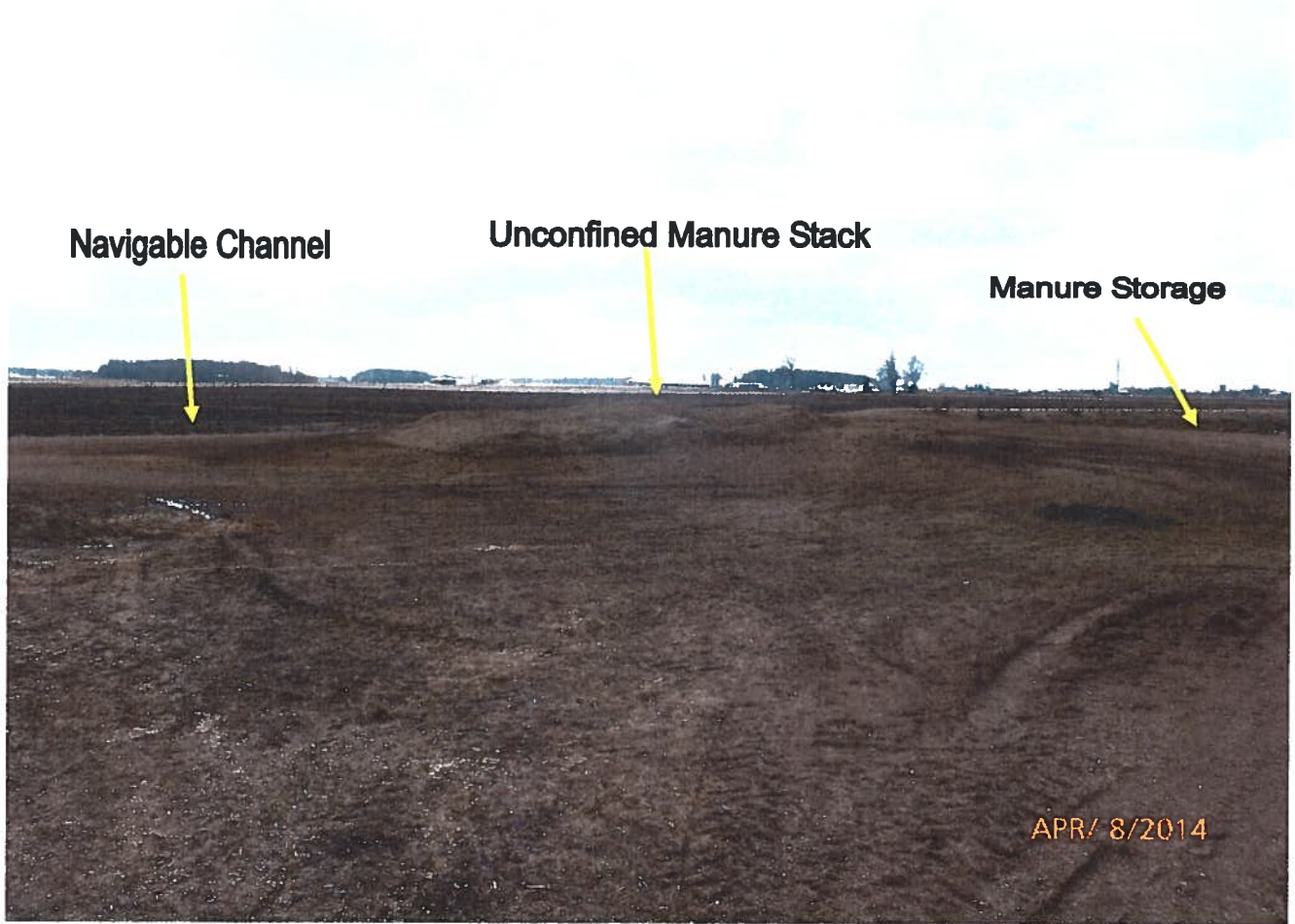
Earth Lot - Sept. 2015



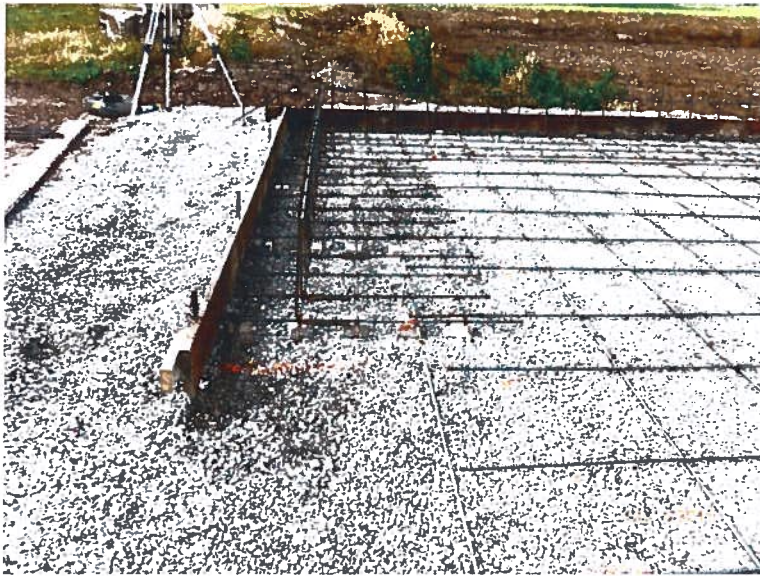
Earth Lot - Sept. 2015



MIKE VANASTEN - MANURE STACK - APRIL 2014



MIKE VANASTEN - MANURE STACKING FACILITY



MIKE VANASTEN - MANURE STACKING FACILITY



MIKE VANASTEN - STACKING FACILITY



BUFFER DESIGN USING BARNY

Farmer: Mike VanAsten
Lot E1

Planner/Designer: EM/JP

Date: 1/13/16

| | | | |
|------------------------------------|-------------------------------------|--------------|---|
| | Input | Output | |
| Closest City of similar climate: | <input type="text" value="2"/> | | 1 Madison 2 Appleton 3 Wausau 4 Eau Claire |
| Paved lot area: | <input type="text"/> | sq ft | |
| Earth lot area: | <input type="text" value="13,550"/> | sq ft | |
| Animal Lot size: | | 13,550 sq ft | |
| Is there a DESIGNED settling basin | <input type="text" value="2"/> | | Yes= 1; No= 2 |
| Animals on lot: | <input type="text" value="85"/> | number | <input type="text"/> |
| Type of animal: | <input type="text" value="1"/> | | (Dairy = 1; Beef=2) |
| Ave. Animal Weight: | <input type="text" value="1,200"/> | lbs | <input type="text"/> |
| Lot Use: | <input type="text" value="1"/> | | 1= Heavy; 2= Medium; 3= Light) |

TRIBUTARY AREAS

| | | | | |
|----------------------|----------------------|-------|----------------------|-------|
| Tributary area: | <input type="text"/> | sq ft | <input type="text"/> | sq ft |
| Runoff Curve Number: | <input type="text"/> | | | |
| Roof area: | <input type="text"/> | sq ft | | |

**36.9 lbs P per year
at D.S. Lot edge:**

| | | | |
|---|---------------------------------|-----|--|
| Maximum permissible P Output that can be released | <input type="text" value="15"/> | lbs | Your choice based on impacted resources- Max is 15 |
|---|---------------------------------|-----|--|

BUFFERS - Size by trial and error

| | | | |
|---------------|---------|-----------------------------------|---------------------|
| | Length: | <input type="text" value="95"/> | ft (See Note Below) |
| First Buffer | Slope: | <input type="text" value="1"/> | % |
| | "c" : | <input type="text" value="0.59"/> | → |
| Second Buffer | Length: | <input type="text"/> | ft |
| | Slope: | <input type="text"/> | |
| | "c" : | <input type="text"/> | |

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

| "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 |

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

| | | |
|----------------------|--|-------------------------------|
| BUFFER SIZING | 13,550 sq ft | Min. Acceptable Buffer Area |
| Chosen Buffer Width | <input style="border: 2px solid black;" type="text" value="143"/> feet | |
| | 95 feet | Min. Bfr. Len. Based on BARNY |
| | 95 feet | Min. Bfr. Len. Based on Area |
| Chosen Buffer Length | <input style="border: 2px solid black;" type="text" value="95"/> feet | Good Design |



Wisconsin Department of Agriculture, Trade & Consumer Protection
 Division of Agricultural Resource Management
 Bureau of Land and Water Resources
 PO Box 8911, Madison WI 53708-8911, Phone: 608-224-4605

Nutrient Management Plan Checklist

CM

Sec. 92.05(3)(k), Wis. Stats.
 ATCP 50.04(3) Wis. Admin. Code

Use this form to check nutrient management (NM) plans for compliance with the WI NRCS 590 Standard (Sept. 2005).

County name: Outagamie
 Township (T22N) – (R.18E) Sec 16

Date Plan Submitted: 4/31/2015
 Updated Plan

Growing season year NM plan is written for 2015
 (from harvest to harvest)

| | | | |
|--|---|---|--|
| Name of qualified nutrient management planner Jeff Polenske | | Planner's business name, address, phone: Tilth Agronomy Group Inc. 2121 E. Ridge Haven Lane Appleton, WI 54913 | |
| Circle the planner's qualification: 1. NAICC-CPCC #0065 2. ASA-CCA #02928 3. ASA-Professional Agronomist #02928 4. TSP- #03-3446 | Cropland Acres (owned & rented) 360.3 | Name of farm operator receiving nutrient management plan: Van Asten Dairy—Mike and Caroline | |
| | Rented farm(s) landowner name(s) and acreage: | | |
| Circle relevant program requirement or regulation the plan was developed for: NRCS | | | |

| | Yes | No | NA |
|--|-----|----|----|
| 1. Are the following field features identified on maps or aerial photos in the plan? | | | |
| a. Field location, soil survey map unit(s), field boundary, acres and field identification number | X | | |
| b. Areas prohibited from receiving nutrient applications: Surface water, established concentrated flow channels with perennial cover, permanent non-harvested vegetative buffer, non-farmed wetlands, sinkholes, lands where established vegetation is not removed, nonmetallic mines, and fields eroding at a rate exceeding tolerable soil loss (T) | X | | |
| c. Areas within 50 feet of a potable drinking water well where mechanically-applied manure is prohibited | X | | |
| d. Areas prohibited from receiving winter nutrient applications: Slopes > 9% (12% if contour-cropped); Surface Water Quality Management Area (SWQMA) defined as land within 1,000 ft of lakes and ponds or within 300 ft of perennial streams draining to these waters, unless manure is deposited through winter gleaning/pasturing of plant residue and not exceeding the N and P requirements of this standard; Additional areas identified within a conservation plan as contributing runoff to surface or groundwater | X | | |
| e. Areas where winter applications are restricted unless effectively incorporated within 72 hours: Land contributing runoff within 200 feet upslope of direct conduits to groundwater such as a well, sinkhole, fractured bedrock at the surface, tile inlet, or nonmetallic mine | X | | |
| f. Sites vulnerable to N leaching: Areas within 1,000 feet of a municipal well, and soils listed in Appendix 1 of the Conservation Planning Technical Note WI-1 | X | | |
| 2. Are erosion controls implemented so the crop rotation will not exceed T on fields that receive nutrients according to the conservation plan or WI P Index model? | X | | |
| 3. Were soil samples collected and analyzed within the last 4 years according to UW Publication A2100 recommendations? | X | | |
| 4. Using the field's predominant soil series and realistic yield goals, are planned nutrient application rates, timing, and methods of all forms of N, P, and K listed in the plan and consistent with UW Publication A 2809, Soil Test Recommendations for Field, Vegetable and Fruit Crops, and the 590 standard? | X | | |
| 5. Do manure production and collection estimates correspond to the acreage needed in the plan? Are manure application rates realistic for the calibrated equipment used? | X | | |
| 6. Is a single phosphorus (P) assessment of either the P Index or soil test P management strategy uniformly applied to all fields within a tract? | X | | |
| 7. Are areas of concentrated flow, resulting in reoccurring gullies, planned to be protected with perennial vegetative cover? | X | | |
| 8. Will nutrient applications on non-frozen soil within the SWQMA comply with the following? | | | |
| a. Unincorporated liquid manure on unsaturated soils will be applied according to Table 1 of the 590 standard to minimize runoff | X | | |
| b. One or more of the following practices will be used: 1) Install/maintain permanent vegetative buffers, or 2) Maintain greater than 30% crop residue or vegetative coverage on the surface after nutrient application, or 3) Incorporate nutrients leaving adequate residue to meet tolerable soil loss, or 4) Establish fall cover crops promptly following application | X | | |

I certify that the nutrient management plan represented by this checklist complies with Wisconsin's NRCS 590 nutrient management standard.

Signature of qualified nutrient management planner



EXISTING CONCRETE

698.45

699

EXISTING BUNKER WALL

4' WALL

98'

699.0

6,338 SQ FT OF 6" CONCRETE SLAB
(EXCLUDES WALL FOOTING)

CUT 530 CU YDS TO GET TO SUBGRADE

FILL 165 CU YDS OF 3/4" STONE FOR 6" BASE

4' WALL

18.6'

29'

698.56

697.83

698.5

41.4'

94'

697.14

FLOOR = 686.0

698.11
sd1



MIKE VANASTEN
OWNER
OUTAGAMIE COUNTY
COUNTY

Designed: EM Checked: JP

Date: _____

SCALE:
1"=20'

SHEET 6 OF 9

