

Notice: This final report is authorized by ss. 281.65 and 281.66, Wis. Stats., and chs. NR 153 and NR 155, Wis. Adm. Code. Personally identifiable information collected will be used for program administration and may be made available to requesters as required under Wisconsin's Open Records Law [ss. 19.31-19.39, Wis. Stats.].

**Instructions: Your grant agreement requires you to submit a Final Report 60 days after the end date listed in the grant agreement. This Final Report form must be used in conjunction with the "FINAL REPORT INSTRUCTIONS." The instructions detail how to complete and submit the report to DNR. The DNR prefers that Final Reports be submitted in electronic format. If, however, printed copies of Final Reports are submitted, please submit three (3) complete originals to your regional Nonpoint Coordinator.**

**1. Grant Type -- Please check one.**

- Targeted Runoff Management Grant – Agricultural  
 Targeted Runoff Management Grant – Urban  
 Urban Nonpoint Source & Storm Water Management Grant – Construction  
 Urban Nonpoint Source & Storm Water Management Grant -- Planning

**2. Grantee & Project Information**

Project Name <b>Stony Creek/Jeff Uecker Farm</b>	Grant Number <b>TRC-TK05-15000-07A</b>
Governmental Unit Name <b>Door County Soil and Water Conservation Department</b>	Primary Watershed Name and Watershed Code <b>Stony Creek/TK-05</b>
Nearest Water Body Name	Nearest Water Body Identification Code (WBIC) (if applicable)
DNR Water Management Unit (River System) Name <b>Twin Door-Kewaunee</b>	s. 303 (d) Listed Waterbody? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No.

What pollutant(s) were addressed by the project (e.g., nitrogen, phosphorus, sediment, thermal control, etc.)?

**Bacteria, Nitrates, Phosphorus and Sediment**

For each project site location provide the following: (attach additional sheets if necessary)

Location:		A	B	C	D	E
Minor Civil Division Name (City, Township, Village, etc.)		<b>Town of Forestville</b>				
PLSS	Town	<b>26N</b>				
	Range	<b>25E</b>				
	Section	<b>16</b>				
	Quarter	<b>SE</b>				
	Quarter-Quarter	<b>SE</b>				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer, SWDV)		<b>44°, 43', 13"</b>				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)		<b>87°, 27', 33"</b>				
Property Owner(s)	Name	<b>Jeff Uecker</b>				
	Mailing address	<b>1011 County O Forestville, WI 54213</b>				

Site address (Not mailing address)					
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**3. Summary of Results**

**A. Performance Standards and Prohibitions and Other Water Resources Management Priorities**

For grants issued in calendar year 2006 or later, complete Tables A and B (following) consistent with the entries on your grant application.

**TABLE A. PERFORMANCE STANDARDS AND PROHIBITIONS (per ch. NR 151, Wis. Adm. Code, effective October 1, 2002)**

Performance Standard or Prohibition	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting T	685	RUSLE 2
Manure Storage Facilities: New Construction/Alterations	Number of facilities	1	Count
	Number of animal units	75	Count
Manure Storage Facilities: Closure	Number of facilities		
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities		
	Number of animal units		
Clean Water Diversions in WQMA	Pollutant load reduction	27	BARNY
	Number of farms with diversions	1	Count
	Number animal units	75	Count
Nutrient Management on Agricultural Land	Acres planned	685	Count
Prohibition: Manure Storage Overflow	Number of facilities		
	Number of animal units		
Prohibition: Unconfined Manure Pile in WQMA	Number of farms		
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	27	BARNY
	Number of facilities	1	Count
	Number of animal units	75	Count
Prohibition: Unlimited Livestock Access	Feet of bank protected		
	Number of farms		
Urban: 20-40% Reduction in Total Suspended Solids (TSS)	Pounds TSS reduced		
	% TSS reduction		

**TABLE B. OTHER WATER RESOURCES MANAGEMENT PRIORITIES**

I. Agricultural Areas	Units of Measure	Quantity	Measurement Method Used
Buffers	Feet of bank protected		
	Number of farms		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
II. Developed Urban Areas	Units of Measure	Quantity	Measurement Method Used
Urban: 20-40% Reduction in TSS	Pounds TSS reduced		
	% TSS reduction		
Infiltration	% Pre-development stay-on volume		
	Cubic feet stay-on volume		
Peak flow discharge	Change in cubic feet per second		
Protective areas	Feet of bank protected		
Fueling & maintenance areas	Oily sheen presence		
Streambank	Tons of bank erosion reduced		
	Feet of bank protected		
Other (specify)			
III. Planning	Units of Measure	Quantity	Measurement Method Used
Quantify how implementation of the planning project decreased storm water impacts on state waters (i.e., storm water plan, I & E plan, etc.)	Municipalities planned for		
	Acres planned for		
Document/track progress made in implementing the planning product (i.e., ordinance, utility district evaluation/formation, storm water management plan information & education, etc.)	Municipalities planned for		
	Acres planned for		

Other (specify)			
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**B. Project Results Narrative**

Mr. Uecker was sent a Notification of Noncompliance for his beef operation in the Town of Forestville. The operation consisted of a barnyard that drained to a collection basin that outleted to the road ditch. After construction was started, it was discovered that there was severe leakage at the interface between the barnyard and collection basin. Roof gutters on the roofs surrounding the barnyard were also in disrepair and did not function to divert clean water from the barnyard area. The barnyard also consisted of a push-off ramp to load solid manure into a manure spreader. All water leaving the barnyard traveled via the road ditch to several sinkholes downslope. Water not intercepted by the sinkholes reached a nearby wetland; the notification sent included an offer of cost-sharing and a deadline to achieve compliance.

Mr. Uecker and the SWCD staff extensively analyzed minimum project requirements and available options throughout the entire grant period. Survey work was completed and several design options were assembled. The final verdict was that the collection basin and barnyard should be sealed, long term manure storage should be installed and roof gutters should be repaired.

In October of 2008, Mr. Uecker decided to address the water quality at this site by making minimal repairs and changes to his management. After several discussions between Mr. Uecker and the SWCD, it was determined that the options that he was proposing would not be cost-shareable. Mr. Uecker was presented with this information and made the decision to move ahead without accepting cost-sharing. It was made clear that although he was declining the offer of cost-sharing, Mr. Uecker would be required to address all noncompliant water quality issues.

Construction was completed quickly as a two-foot wall was added to the existing barnyard and the interface between the barnyard and collection basin was retrofitted to be water-tight. The hole in the basin that outleted to the road ditch was sealed to create a liquid-tight basin to capture all runoff. The barnyard and the basin are now intended to hold all liquid generated and will be stored there until they are pumped and properly field spread according to an approved nutrient management plan. The push-off ramp will remain and Mr. Uecker will continue to clean solid manure from the barnyard and apply it in approved areas in compliance with his nutrient management plan. Roof Gutters were repaired and now function properly to divert clean water from the barnyard area.

Mr. Uecker is actively implementing an approved nutrient management plan for all of his owned and rented acreage. This plan is on file with the SWCD and is updated annually.

**4. Satisfaction of Notice Requirements (if applicable)**

If cost sharing for this project was offered under a formal notice to achieve compliance with performance standards or prohibitions, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
Local Regulation	6/5/07	Door County SWCD	Jeff Uecker	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12/9/08
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

**5. Summary of Project Challenges**

The biggest challenge associated with this project was the decisions that needed to be made by the landowner. The BMPs that would have been necessary to create a long term storage would have required both a greater financial commitment and a commitment to change management styles to handle the waste in a completely different manner.

The designs were straightforward, but the challenge was ultimately the landowners comfort level with making a large-scale change for his beef operation when he is nearing retirement, with no children currently showing an interest in continuing the operation.

**6. Additional Information about the Project (optional)**

The SWCD is pleased with the success of this project, specifically with the ability to offer cost-sharing and impose a deadline for the landowner to address water quality issues in this sensitive area. Ultimately the decision to not apply cost-sharing to this project has proven to be a more prudent use of the public's money in that it will be available to apply to a different project to address water quality issues.

**7. Final Product(s) -- All Projects**

**A. Construction Projects**

A.1. Checking here indicates that a printed copy of project plans and specifications was sent to your DNR Regional Nonpoint Source Coordinator.

A.2. Checking here indicates that photo-documentation of the project's construction is attached.

**B. Planning Projects**

B.1. Checking here indicates that a printed copy of the planning product (e.g., plans, ordinances, analyses) was sent to your DNR Regional Nonpoint Source Coordinator.

B.2. Checking here indicates that the Regional Nonpoint Source Coordinator has approved the final Planning Product(s).

B.3. Checking here indicates that your governmental unit has adopted the final Planning Product(s).

Name of Planning Document(s)

Date(s) effective

Date Submitted to NPS Coordinator

**8. Grantee Certification:**

Checking here certifies that, to the best of your knowledge, the information contained in this report is correct and true.

Type or print Name and Title of Authorized Representative certifying here.

**William Schuster, County Conservationist**

Signature of Authorized Representative

Date



12/23/08

**9. FOR DEPARTMENTAL USE ONLY**

REGIONAL NONPOINT COORDINATOR -- Please complete the following:

Checking here indicates that you received either planning or construction plans and specifications from the project sponsor, as appropriate. Attach a copy of the approval.

Checking here indicates that you approved the final construction. Attach a copy of the final construction approval.

Checking here indicates that you have approved the final Planning Product(s).

Check here if two (2) signed, original copies of the Final Report and attachments have been sent to Runoff Management Section Grants Coordinator. Note: Regional Nonpoint Source Coordinator may retain one (1) copy of the signed, original Final Report.

Type or print Name of Regional Nonpoint Coordinator

Signature of Regional Nonpoint Coordinator

Date



2006 1 30  
Pre Construction Barnyard – Collection Basin Outlet to Road Ditch

2006 1 30



Pre Construction – Discharge from Barnyard in Road Ditch



Pre Construction – Barnyard Draining to Collection Basin



Pre Construction – Interface Between Barnyard and Basin





Pre Construction – Outlet from Basin to Road Ditch



Runoff Through Culvert Downslope



Sinkhole in Road Ditch Downslope



Repair of Outlet and Interface Between Barnyard and Basin



Repair of Outlet and Construction of Barnyard Wall



Construction of Barnyard Wall and Repair of Basin