

Final Report Form 3400-189 (rev. 7/30/09)

- Targeted Runoff Management Grant Program (ch. NR 153)
- Notice of Discharge Program (ch. NR 153)
- Urban Nonpoint Source & Storm Water Management Grant Program (ch. NR 155)

NOTICE: This Final Report is authorized under ss. 281.65 and 281.66., Wis. Stats., and chs. NR 153 and NR 155, Wis. Admin. Code. Personally identified information collected will be used for program administration and may be made available to requesters as required under Wisconsin Open Records Law [ss. 19.31-19.39, Wis. Stats.].

INSTRUCTIONS: Your grant agreement requires you to submit a Final Report with your final reimbursement request. 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 as described in the instructions.

1. GRANT TYPE. Check the one that applies.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Targeted Runoff Management Grant – Agricultural | <input type="checkbox"/> Targeted Runoff Management Grant – Urban |
| <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Construction | <input type="checkbox"/> Urban Nonpoint Source & Storm Water Management Grant – Planning |
| <input type="checkbox"/> Notice of Discharge Grant | |

2. PROJECT NAME & LOCATION.

2.1. Project Name: Hibbards Creek Groundwater Protection Project	2.2. Grant Number: TRC-TK06-15000-13A	
2.3. Governmental Unit Name: Door County	2.4. Primary Watershed Name: Upper Door County	2.5. Watershed Code: TK06

NOTE FOR SECTION 2.6 (which follows):

Section 2.6. includes five (5) columns (A. through E.) for recording data about five (5) discrete site locations. If your grant has more than five (5) discrete project locations, attach additional columns for Section 2.6 as described in the instructions. If your project occurs in more than one 12-digit Hydrologic Unit Code (HUC), use the space in adjacent columns to record other HUC numbers.

2.6 Site Location(s) →	A.	B.	C.	D.	E.
Name of Cost-Share Recipient or Governmental Unit	B&B Dairy Farms Inc-Bley, William				
Cost-Share Agreement Number (Agricultural only)	13-BLE-01				
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040301020106				
Nearest Surface Receiving Water Affected					
Name:	Hibbards Creek				
Waterbody Identification Code(s) (WBIC):	98200				
Nearest Impaired Water Affected					
Name:	Hibbards Creek				
Waterbody Identification Code(s) (WBIC):	98200				
Pollutants Reduced	Sediment, Bacteria, Nitrates, and Phosphorus				
Impairments/Impacts Addressed	Clean Water Diversions in WQMA Unconfined Manure Piles in				

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	WQMA				
	Direct Runoff From Feedlot to Waters of the State				
Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	29N				
Range	27E				
Section	15				
Quarter	SE				
Quarter-Quarter	SE				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44d59m3s				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	87d11m58s				

3. SUMMARY OF RESULTS.

Table A. Agricultural Projects. – Ch. NR 151 Performance Standards and Prohibitions and Other Water Resources Management Priorities

A.1. Management Measures	Units of Measure	Quantity	Measurement Method Used
Sheet, rill and wind erosion	Acres meeting "T"	962 acres	RUSLE2
Manure Storage Facilities: New Construction/Alterations	Number of facilities	1 facilities	Count
	Number of animal units	161 animal units	Count
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities: Failing/Leaking Facilities	Number of facilities	facilities	
	Number of animal units	animal units	
Clean Water Diversions in WQMA	Pollutant load reduction	82 lbs.	BARNY Model
	Number of farms with diversions	1 farms	Count
	Number animal units	161 animal units	Count
Nutrient Management on Agricultural Land	Acres planned	962 acres	Count
Prohibition: Manure Storage Overflow	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
Prohibition: Direct Runoff From Feedlot/Stored Manure	Pollutant load reduction	82 lbs.	BARNY Model
	Number of facilities	1 facilities	Count
	Number of animal units	161 animal units	Count

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Prohibition: Unlimited Livestock Access	Feet of bank protected	feet	
	Number of farms	farms	

Table A. Agricultural Projects. (continued) A.2. Other Management Measures		Units of Measure	Quantity	Measurement Method Used
Streambank & Shoreline Protection	Units (use feet, acres or number as applicable)			
	Pollutant load reduction (if method available)			
Other: Elimination of Winter Manure Application	Units (use feet, acres or number as applicable)		962	Count
	Pollutant load reduction (if method available)			
Other:	Units (use feet, acres or number as applicable)			
	Pollutant load reduction (if method available)			
Other:	Units (use feet, acres or number as applicable)			
	Pollutant load reduction (if method available)			

Table B. Urban Construction Projects Serving Developed Areas.				
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used	
20-40% Total Suspended Solids (TSS) Reduction for NR 216 communities	TSS reduced	lbs.		
	TSS reduction	%		
B.2. Other Management Measures	Units of Measure	Quantity	Measurement Method Used	
20-40% Reduction in TSS for non-NR 216 communities	TSS reduced	lbs.		
	TSS reduction	%		
Infiltration	Pre-development stay-on volume	%		
	Stay-on volume	ft ³ /year		
Peak flow discharge for 2 year/24 hour design storm	Change in cubic feet per second for design year	ft ³ /sec		
Protective areas	Bank protected	feet		
Fueling & maintenance areas	Oily sheen presence reduced	<input type="checkbox"/> Yes <input type="checkbox"/> No		
Streambank & Shoreline Protection	Bank erosion reduced	tons		
	Bank protected	feet		
Other:	Pollutant load reduction (if method available)			
	Units (use feet, acres or number as applicable)			

Table C. Urban Planning Projects.

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C.1. Governmental unit(s) involved (list by name):

C.2. Estimate total acres covered by the planning product:	Existing Developed Urban Areas	New Development	Total Acres
	acres	acres	acres

C.3. Products developed (check all below that apply)	Identify Documents by Name (if applicable)
<input type="checkbox"/> Storm Water Plan	
<input type="checkbox"/> Construction or Erosion Ordinances	
<input type="checkbox"/> Post-construction Storm Water Ordinances	
<input type="checkbox"/> Other Types of Storm Water Quality Ordinances	
<input type="checkbox"/> Financing Methods: identified and evaluated	
<input type="checkbox"/> Financing Methods: developed or implemented	
<input type="checkbox"/> I & E Plan	
<input type="checkbox"/> I & E Implementation Activities	
<input type="checkbox"/> Other:	
C.4. Identify the Storm Water goals addressed (check all that apply)	
<input type="checkbox"/> Reduce TSS	Comments:
<input type="checkbox"/> Maintain infiltration	
<input type="checkbox"/> Control Peak Flow	
<input type="checkbox"/> Protective Areas	
<input type="checkbox"/> Control of Fueling & Maintenance Areas	
<input type="checkbox"/> Remove Illicit Discharges	
<input type="checkbox"/> Other:	

4. Satisfaction of Notice Requirements. If cost sharing for this project was offered under a formal notice pursuant to chs. NR 151 or 243, provide information for each notice in the table below.

Notice Information				Notice Satisfaction Information		
Chs. NR 151 or 243 Notice Type	Issue Date	From (Name)	To (Name)	Satisfied?		Date Letter Sent
				Yes	No	
Local Regulation	10-21-2013	Door County SWCD	William Bley	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1/8/2015
				<input type="checkbox"/>	<input type="checkbox"/>	

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				<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	

5. Additional Information. (Space will expand to fit your text.)

The primary benefit of this project is the protection of groundwater resources for private and public drinking water supplies as well as the wetland areas associated with Hibbards Creek and Logan Creek watersheds; both, diverse wetland complexes that provide habitat for several species of state significance.

The BMPs were selected through a cost analysis based on the most cost-effective alternative still achieved the maximum level of pollutant control through total containment of waste generated and treatment of barnyard effluent. The chosen BMPs provided greater ease of operation and maintenance, increasing the likelihood of success and continued compliance. They were selected to take advantage of existing conditions, current management and equipment at the site. The construction of a roofed manure storage operates as a manure pack that allows the landowner to handle manure as he currently does for this operation, as a solid, and with this system it will remain the same consistency and eliminated the need to purchase additional equipment for a different management style. Maintaining a solid-type manure under a roof also reduces the sizes needed for longterm manure storage as it eliminated the collection of precipitation. The addition of the manure storage in conjunction with the existing storage has allowed for storage of manure for 210 days and eliminates the need to winter spread.

The existing barnyard has been modified to add necessary stable feeding areas to remove livestock from areas with shallow soils to bedrock, and to collect and route all effluent to a renovated wastewater treatment strip. All solid waste generated from the barnyard is pushed to the manure storage. The existing barnyard and feedlot area drains to the renovated wastewater treatment strip. Modifications have been made to this system to meet current standards. Renovation of the existing vegetative wastewater treatment strip to treat all liquid from the barnyard will ensure efficient operation of the system for the landowner and will eliminate the need for costly pumps and other necessary equipment and the change in management necessary for an all inclusive waste system or dual systems to store both manure and wastewater. Site conditions allow for continued use of overland filtration to treat barnyard effluent and this is the type of management that this operation has become accustomed to.


All waste is treated on site or collected and stored until it can be applied appropriately according to an approved nutrient management plan.

6. Summary of Project Challenges. (Space will expand to fit your text.)

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7. Grantee Certification.

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

Name of Authorized Representative (type or print) ↓ WILLIAM E. Schuster	Title of Authorized Representative (type or print) ↓ Co. Conservationist
Signature of Authorized Representative 	Date 1/9/15

8. For Departmental Use Only.

Regional NPS Coordinator – Please complete the following:

8.A. Check here ☐ if you have received the following from the project sponsor:

- one (1) printed, signed, original Final Report + attachments

Wisconsin Department of Natural Resources
Bureau of Watershed Management (WT/3)
101 S. Webster St.
Madison, WI 53703
PO Box 7921
Madison, WI 53707-7921

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- one (1) electronic version of Final Report.

Send the printed, signed original Final Report with attachments + electronic version to the Community Financial Assistance Grants Manager. Community Financial Assistance will forward to Runoff Management Section Grants Coordinator.

8.B. Comments about this project:

8.C. Type or print Name of Regional NPS Coordinator →

8.D. Signature of Regional NPS Coordinator

8.E. Date







Direct Discharge from Feedlot – Not Reaching Filter Strip



Existing Filter Strip, Barnyard and Manure Storage





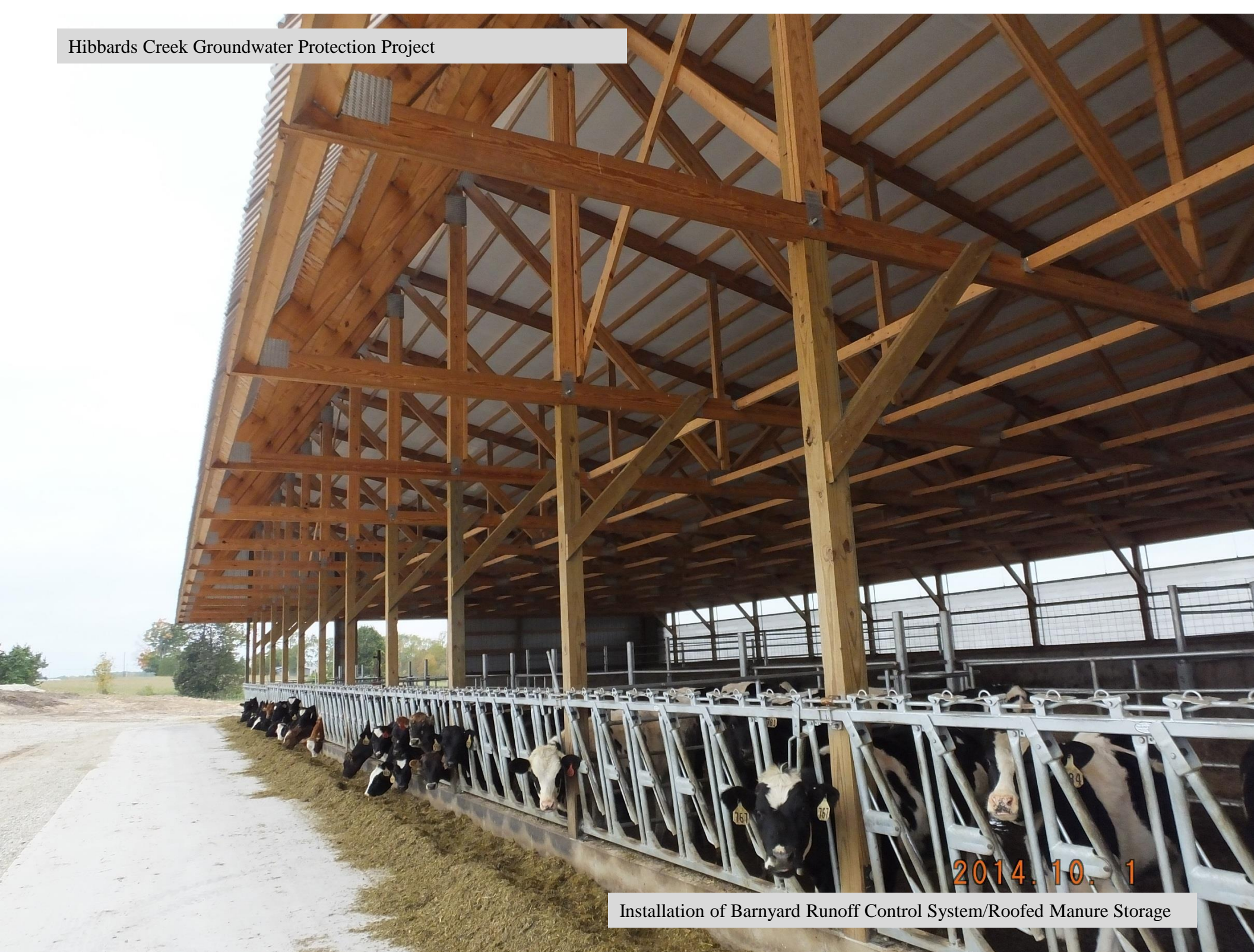
11/14/2013

Installation of Barnyard Runoff Control System/Roofed Manure Storage



2014.10.1

Installation of Barnyard Runoff Control System/Roofed Manure Storage



2014.10.1



2014.10.1





Installation of Barnyard Runoff Control System