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

4 CDANT TYPE							
1. GRANT TYPE. Check to	the one that applies.						
□ Targeted Runoff Managemer	nt Grant – Agricultural		☐ Tai	rgeted Runoff Managem	ent Gra	nt – Urban	
Urban Nonpoint Source & Ste Construction	orm Water Management	Grant –	Urb	oan Nonpoint Source &	Storm W	ater Manageme	nt Grant – Planning
☐ Notice of Discharge Grant							
2. PROJECT NAME & LO	OCATION.		-				
2.1. Project Name:			2.2. G	rant Number:			
Big Creek / Gilbert Farms Proje	ect		TRC-T	K06-15000-07B			
2.3. Governmental Unit Name:			2.4. P	rimary Watershed Name	e:	2.5. Watershe	d Code:
Door County Soil and Water C	onservation Departme	nt	Upper	Door County		TK-06	
NOTE FOR SECTION 2.6 (whic	h follows):						
Section 2.6. includes five (5) co discrete project locations, attach Hydrologic Unit Code (HUC), use	additional columns for S	Section 2.6 as de	escribed	in the instructions. If yo			
2.6 Site Location(s) →	A.	В.		C.		D.	E.
Name of Cost-Share Recipient or Governmental Unit	Gilbert Farms						
Cost-Share Agreement Number (Agricultural only)	07-GIL-04						
12-Digit Hydrologic Unit Code(s) (HUC) Where Work Was Completed	040301020109						
Nearest Surface Receiving Water Affected							
Name:	Lily Bay						
Waterbody Identification Code(s) (WBIC):	97100						
Nearest Impaired Water Affected							
Name:							
Waterbody Identification Code(s) (WBIC):							

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Pollutants Reduced	Sediment, Bacteria, Nitrates and Phosphorus				
Impairments/Impacts Addressed	-Clean Water Diversions in a WQMA -Direct Runoff to Waters of the State -Sedimentation to Surface and Groundwater -Elimination of Winter Spreading				
Project Location(s) (cont.) →	A.	B.	C.	D.	E.
Project Coordinates:					
Town	28				
Range	26E				
Section	35				
Quarter	sw				
Quarter-Quarter	SW				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer (SWDV))	44d51m02s				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)	-87d18m44s				

3. SUMMARY OF RESULTS.			
Table A. Agricultural Projects Ch. NF	R 151 Performance Standards a	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"	1,157 acres	RUSLE2
Manure Storage Facilities:	Number of facilities	1 facilities	Count
New Construction/Alterations	Number of animal units	737 animal units	Count
Manure Storage Facilities: Closure	Number of facilities	facilities	
Manure Storage Facilities:	Number of facilities	facilities	
Failing/Leaking Facilities	Number of animal units	animal units	
	Pollutant load reduction	156 lbs.	BARNY
Clean Water Diversions in WQMA	Number of farms with diversions	1 farms	Count
	Number animal units	737 animal units	Count

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Nutrient Management on Agricultural Land	Acres planned	1,157 acres	Count
	Number of farms	farms	
	Number of animal units	animal units	
Prohibition: Unconfined Manure Pile in WQMA	Number of farms	farms	
	Pollutant load reduction	156 lbs.	BARNY
Prohibition: Direct Runoff From Feedlot/Stored Manure	Number of facilities	2 facilities	Count
	Number of animal units	662 animal units	Count
Prohibition: Unlimited Livertock Assess	Feet of bank protected	feet	
	Number of farms	farms	
	Agricultural Land Prohibition: Manure Storage Overflow Prohibition: Unconfined Manure Pile in WQMA Prohibition: Direct Runoff From Feedlot/Stored Manure Prohibition: Unlimited Livestock Access	Agricultural Land Prohibition: Manure Storage Overflow Prohibition: Unconfined Manure Pile in WQMA Prohibition: Direct Runoff From Feedlot/Stored Manure Prohibition: Direct	Agricultural Land Prohibition: Manure Storage Overflow Number of farms Number of animal units Prohibition: Unconfined Manure Pile in WQMA Prohibition: Direct Runoff From Feedlot/Stored Manure Prohibition: Unlimited Livestock Access Acres planned Number of farms Number of farms Pollutant load reduction Number of facilities Prohibition: Unlimited Livestock Access Feet of bank protected 1,157 acres 1,157 a

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	Units (use feet, acres or number as applicable)	1157	Count
Spreading	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
Other.	Pollutant load reduction (if method available)		
Other:	Units (use feet, acres or number as applicable)		
Other.	Pollutant load reduction (if method available)		

Table B. Urban Construction Projects Se	erving Developed Areas.		
B.1. Required Management Measures	Units of Measure	Quantity	Measurement Method Used
20-40% Total Suspended Solids (TSS)	TSS reduced	lbs.	
Reduction for NR 216 communities	TSS reduction	%	
B.2. Other Management Measures			
20-40% Reduction in TSS for	TSS reduced	lbs.	
non-NR 216 communities	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	ft³/sec	
Protective areas	Bank protected	feet	
Fueling & maintenance areas	Oily sheen presence reduced	☐Yes ☐ No	
Streambank & Shoreline Protection	Bank erosion reduced	tons	
Streambank & Shoreline Protection	Bank protected	feet	
Other:	Pollutant load reduction (if method available)		

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	number as applicable)			
Table C. Urban Planning Projects.				
C.1. Governmental unit(s) involved (list by	name):			
O O Father to total access account has the		1		
C.2. Estimate total acres covered by the planning product:	Existing Developed Urban Areas			Total Acres
	acre	:5	acres	acr
C.3. Products developed (check all below that apply)		Identify Documents by N	Jame (if applic	able)
Storm Water Plan		Tachtary Decamena by 1	tarro (il applio	40.07
Construction or Erosion Ordinances				
Post-construction Storm Water Ordinances				
Other Types of Storm Water Quality Ordinances				
Financing Methods: identified and evaluated				
Financing Methods: developed or implemented				
☐ I & E Plan				
☐ I & E Implementation Activities				
Other:				
C.4. Identify the Storm Water goals addressed (check all that apply)				
Reduce TSS	Comments:			
Maintain infiltration	Comments.			
Control Peak Flow				
Protective Areas				
Control of Fueling & Maintenance Areas				
Remove Illicit Discharges				
Other:				

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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	Satisf	action Information
Chs. NR 151 or 243	Issue Date	From (Name)	To (Name)	Satist	ied?	Date Letter Sent
Notice Type	Issue Date	Fioni (Name)	TO (Name)	Yes	No	Date Letter Sent
Local Regulation	June 5, 2007	Door County SWCD	Gilbert Farms			June 16, 2010

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

This farm has historically been a major source of groundwater pollution from inadequate barnyard runoff control and manure management.

Once the manure storage component was in progress, planning with the landowner revealed that the best solution for barnyard runoff issues was to construct a total confinement, no-runoff system.

While the planned barnyard runoff control measures could be installed to meet standards and address many of the immediate concerns with this facility, there were too many variables with shallow soils, existing grade and significant solution features that lead to the most logical solution being confining the animals.

The SWCD planned with the Gilberts throughout the process and it lead to the undeniable conclusion; the Gilberts recognized the challenges that existed with regard to protection of water quality on their site and they agreed to confinement of the animals to create a norunoff scenario.

The Total Confinement concept was first used in Door County during the Red River/Sturgeon BayPriority Watershed Project on a site adjacent to a creek with limited options for barnyard runoff control. As described in the control plan, the SWCD calculated the cost of the BMPs needed to address the water quality issues and used that amount as the cost-containment for the new facility. In this situation, the SWCD assisted in planning and design and construction supervision but the landowner was able to build a facility with components that are not normally eligible for cost-sharing through traditional BMPs. This resulted in a facility that was suitable for total confinement with no runoff and the SWCD applied funding calculated through the aforementioned process.

This is the same scenario approved for the Gilbert Farm.

R	Summary of	f Project	Challenges	(Space will expand to fit your text.)	١

Bedrock, Groundwater and the proximity to solution features were all issues at this site. Care had to be taken for proper placement of the facilities and their associated components. Once located, the construction of the projects was done carefully to ensure compliance with specifications for BMP installation in sensitive locations. Some bedrock removal was also necessary to accommodate waste transfer.

Weather was also an issue as construction ran late into the year; proper cold-weather concrete techniques were crucial as structures were placed for the Total Confinement Facility.

7. Grantee Certification.

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Signature of Authorized Representative 8. For Departmental Use Only. Regional NPS Coordinator – Please complete the following: 8.A. Check here if you have received the following from the proj one (1) printed, signed, original Final Report + attaction one (1) electronic version of Final Report. Send the printed, signed original Final Report with attachments + electronic version of Final Report.	ichments
8. For Departmental Use Only. Regional NPS Coordinator – Please complete the following: 8.A. Check here if you have received the following from the projone (1) printed, signed, original Final Report + attaction one (1) electronic version of Final Report. Send the printed, signed original Final Report with attachments + electronic version of Final Report.	ject sponsor:
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Send the printed, signed original Final Report with attachments + ele	ectronic version to the Community Financial Assistance Grants Manager
Send the printed, signed original Final Report with attachments + ele	ectronic version to the Community Financial Assistance Grants Manager
Community I mancial Assistance will forward to Runon Management	t 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







































