State of Wisconsin
Department of Natural Resources-WT/3
101 S. Webster St.
Madison, WI 53707

dnr.wi.gov

Final Report

Targeted Runoff Management Grant Program and Urban Nonpoint Source and Storm Water Management Grant Program

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	Grant Number
Sand Creek - NR151 Implementation (Adam Mikl)	**TRC-LC07-09000-07B**
Governmental Unit Name	Primary Watershed Name and Watershed Code
Chippewa County	**Pine Creek & Red Cedar River (Chippewa County); LC07**
Nearest Water Body Name	Nearest Water Body Identification Code (WBIC) (if applicable)
DNR Water Management Unit (River System) Name	s. 303 (d) Listed Waterbody? ☐ Yes ☒ No.

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

Nitrogen, phosphorus

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.)						
PLSS	Town	**T31N**				
	Range	**R10W**				
	Section	**Sect 4**				
	Quarter	**NW**				
	Quarter-Quarter	**SW**				
Latitude (degrees, minutes, seconds North of Equator; use the DNR's Surface Water Data Viewer, SWDV)		**-91 37 25**				
Longitude (degrees, minutes, seconds W of Prime Meridian, use the SWDV)		**45 11 56**				
Property Owner(s)	Name	**Adam Mikl**				
	Mailing address	**24523 30th Ave** **New Auburn, WI**				

Site address *(Not mailing address)*					

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	**87**	**Rusle 2**
Manure Storage Facilities: New Construction/Alterations	Number of facilities		
	Number of animal units		
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		
	Number of farms with diversions		
	Number animal units		
Nutrient Management on Agricultural Land	Acres planned	**87**	
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	**83**	
	Number of facilities	**3**	
	Number of animal units		
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	**3198**	
	Number of farms	**1**	
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)			

B. Project Results Narrative

Attached.

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		
				Satisfied?		
Notice Type	Issue Date	From (Name)	To (Name)	Yes	No	Date Letter Sent
				☐	☐	
				☐	☐	
				☐	☐	
				☐	☐	

5. Summary of Project Challenges

6. Additional Information about the Project (optional)

Note: The Mikl's barn was destroyed by fire on January 18, 2009.

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.

Dan Masterpole, County Conservationist

Signature of Authorized Representative	Date
	2/4/09

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

FINAL REPORT - January 2009
TRM Grant Program (Form 3400-189 (R 6/08)
Chippewa County
Sand Creek - NR151 Implementation (Adam Mikl)
TRC-LC07-09000-07B

B. Project Results Narrative

Background

Sand Creek is a high quality (Class I) cold water sport fishery that has been intensively managed by the WDNR for over 30 years.

In the fall of 2005, WDNR fisheries staff observed direct discharge to Sand Creek (Creek 8-3) from a dairy operation's barnyard and cattle loafing area.

In response, the Chippewa County LCD staff performed an NR151 evaluation. The report concluded that changes in crop and livestock management were needed to gain compliance with the NR151 standards.

Objectives and Results

Objective 1. Achieve a soil erosion rate equal to, or less than, the tolerable rate established for that soil.

The NRCS and LCD have been assisting the landowner by evaluating crop rotations, tillage options and field management practices (i.e. contour farming and contour strip cropping). A resource conservation plan has been developed by NRCS.

An area of concentrated flow in Pasture 1 has been re-vegetated. Livestock access has been restricted in an effort to maintain adequate sod cover. Objective met.

Objective 2. Runoff shall be diverted away from contacting feedlots, manure storage areas and barnyard areas within water quality management areas.

The Mikl barnyard is located within a water quality management area (WQMA). A barnyard runoff management system was constructed in 2007 to limit direct discharge into the stream. Objective met.

Figure 1. Before: Mikl barnyard and feedlot area.

Figure 2. After: Mikl barnyard and feedlot area.

Objective 3. Develop and implement a nutrient management plan..

The landowner has hired a crop consultant and filed a nutrient management plan with the county.

A manure storage system was constructed in the late fall of 2008 to assist the landowner in better manure management on his cropland and to limit winter spreading. Objective met.

Objective 4. A livestock operation shall have no direct runoff from feedlots into waters of the state.

A barnyard runoff model (Barny) estimated an annual discharge of approximately 56 lbs. of phosphorous from the barnyard into the stream. A barnyard runoff management system was installed to limit direct discharge into the stream.

A barnyard runoff model (Barny) estimated an annual discharge of approximately 27 lbs. of phosphorous from Feedlot #1 into the stream. Livestock have been removed from Feedlot 1. The Mikl's have installed a concrete feeding alley. Manure from the feeding alley is scraped into a reception tank connected to the manure storage system. Feedlot 1 has been reshaped and reseeded.

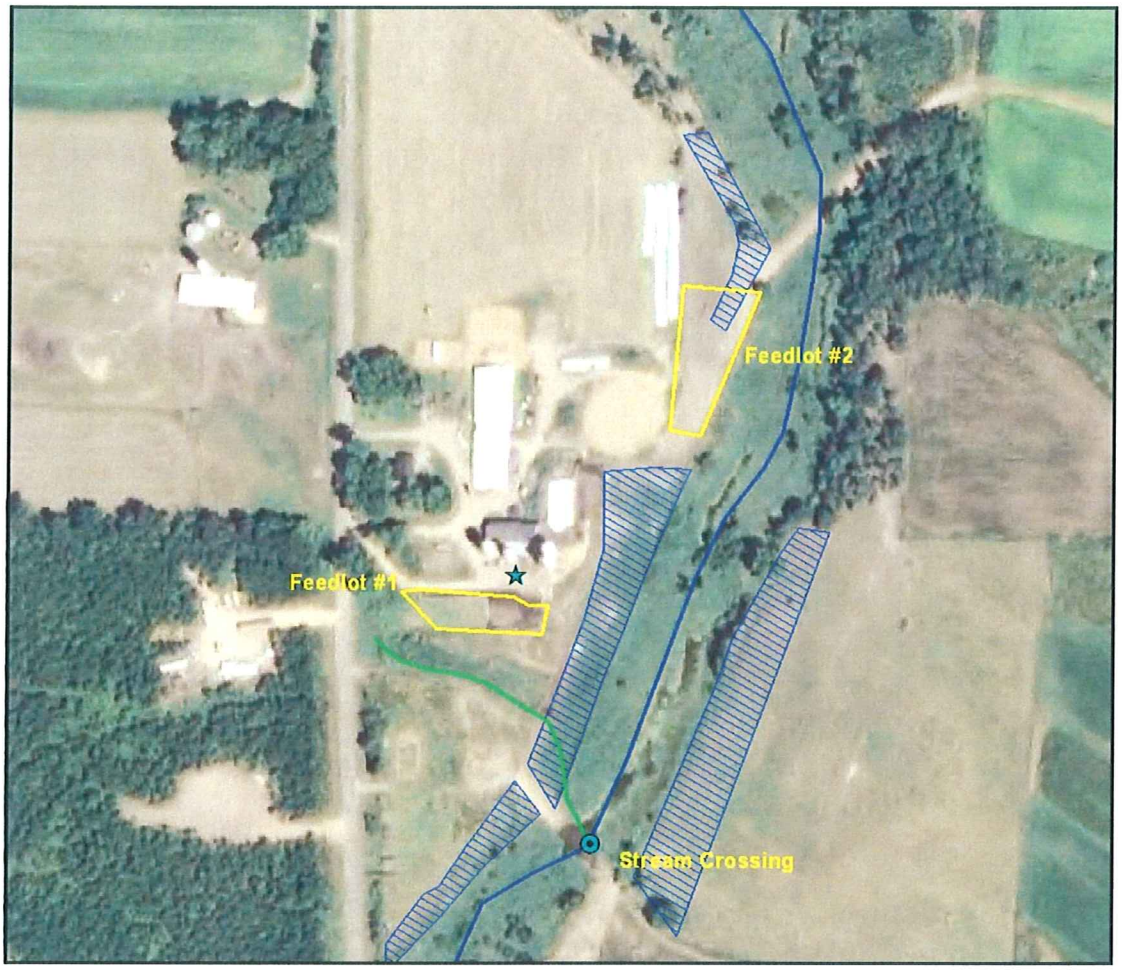
A barnyard runoff model (Barny) estimated an annual discharge of approximately 15 lbs. of phosphorous from Feedlot #2 into the stream. Eligible land was enrolled in the Conservation Reserve Enhancement Program. Livestock have been restricted from this area except for a cattle lane constructed for pasture access.

An at grade concrete panel stream crossing was installed to reduce damage to the stream by livestock. Objective met.

Note: Figure 3 details the location of the barnyard, feedlots and stream crossing.

Figure 3.
Sand Creek-NR151 Implementation
Adam Mikl

Chippewa County
TRC-LC07-09000-07B



LEGEND

- CREP Buffers
- Area of Concentrated Flow
- Feedlot Locations
- Stream
- Stream Crossing
- Barnyard Location

N
W E
S

500 0 500 1000 Feet

Chippewa County Land Conservation Dept

January 2009