

**Final Report**

**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 Little Willow Creek Large Scale TMDL		
Grant Number TMD-L/LW12-52000	TMD-L/LW12-52000-14	Governmental Unit Name Richland County Land Conservation Department
County Richland	Watershed Name Middle Willow Creek	12-Digit HUC 070700051002
Project Contact Name Kenneth Anderson	Phone Number (608) 647-2100	E-mail Address kenneth.anderson@wi.nacdnet.net
<input checked="" 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 Uhlenhake, Edward and Colleen					Animal Units	Nearest Receiving Waterbody Little Willow Creek	
Township 11	Range 02	E / W E	Section 19	Quarter	Quarter/Quarter	Latitude 43.41297	Longitude -90.30199

Compliance Requirements - 1			
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151	Notice letter attached <input 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
Streambank/Shoreline Rip-Rapping	1,050	Feet	Code(s) 13	\$25,500.00			63

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
<i>Narrative space will expand to fit</i> Erosion on the streambank was adding sediment to Little Willow and degrading habitat. Habitat degradation by sediment is one of the impairments of Little Willow. The sites that were rip rapped were the sites contributing the most sediment. Habitat work was completed on the site including rock weirs and half logs. The Southeast Chapter of Trout Unlimited paid for part of the costs as Uhlenhakes signed a public fishing easement with the county.
<input checked="" type="checkbox"/> DNR may use this site as a success story to meet state and federal reporting needs.

Site Location - 2							
Name of Cost-Share Recipient Servais, Dale					Animal Units	Nearest Receiving Waterbody Little Willow	
Township 11	Range 02	E / W E	Section 31	Quarter SW	Quarter/Quarter	Latitude 43.38296	Longitude -90.30821
Compliance Requirements - 2							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151		Notice letter attached <input 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 - 2							
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	
Streambank/Shoreline Rip-Rapping		2,400	Feet	Code(s) 13			144
Site Location Attachment - 2							
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 - 2							
<i>Narrative space will expand to fit</i>							
Erosion on the streambank was adding sediment to Little Willow and degrading habitat. Habitat degradation by sediment is one of the impairments of Little Willow. The sites that were rip rapped were the sites contributing the most sediment. Habitat work was also added to the site such as rock weirs and half logs.							
<input checked="" type="checkbox"/> DNR may use this site as a success story to meet state and federal reporting needs.							

Site Location - 3							
Name of Cost-Share Recipient Gald, Scott and Sally					Animal Units	Nearest Receiving Waterbody Little Willow	
Township 10	Range 02	E / W E	Section 18	Quarter SE	Quarter/Quarter SE	Latitude 43.3371	Longitude -90.29531
Compliance Requirements - 3							
Chs. NR 151 or 243 Wis. Adm. Code Notice Type NR 151		Notice letter attached <input 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.							

### Final Report

Summary of Results - 3							
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
Streambank/Shoreline Rip-Rapping	225	Feet	Code(s) 13	\$5,484.00			18

#### Site Location Attachment - 3

Check the box if the required information for the site is attached:

Photos of pre-and post-implementation of BMP(s)  Load reduction modeling documents

Aerial photo map of site with BMPs labeled  Water quality monitoring results/summary, if applicable

#### Site Information - 3

*Narrative space will expand to fit*

Erosion on the streambank was adding sediment to Little Willow and degrading habitat. Habitat degradation by sediment is one of the impairments of Little Willow. The sites that were rip rapped were the sites contributing the most sediment.

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*

There was no water quality monitoring planned for these sites. Excessive sediment in the stream was degrading the habitat according to the Little Willow TMDL report. By riprapping stream bank sites with excessive erosion due to livestock impacts and requiring these landowners to control the grazing, less sediment should be entering Little Willow Creek and habitat should improve.

#### 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
Cathy Cooper	County Conservationist	10/17/2017

#### For DNR Use Only

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

Comments about this project:

Name of Region Nonpoint Source Coordinator	Date
DALE GASSER	11-20-17

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.

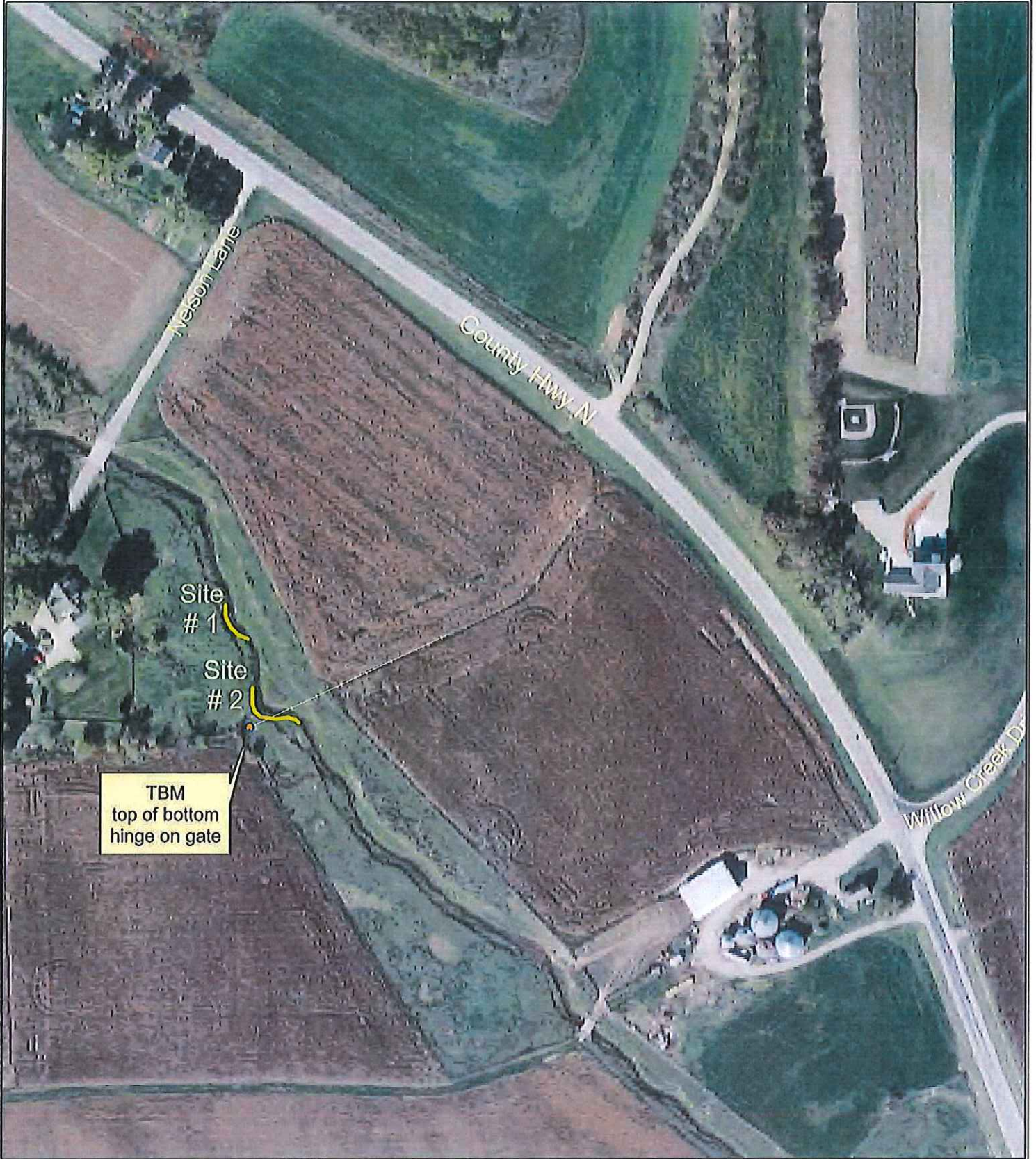


# Rip Rap Sites

Location:  
Richland County, WI  
Ithaca T10N-R2E Sections 18 & 19

Owner  
Scott Gald

Richland County  
Land Conservation Dept  
Assisted By: Ken Anderson  
Date: 04/20/2017



Legend



Sheet 3 of 8



Scott Gald  
Rip Rap sites Before



Scott Gald  
Rip Rap sites After





Location:  
Richland County, WI  
Willow (T11N R2E) Section: 31

# Stream Improvement

Owner  
Dale Servais

Richland County  
Land Conservation Dept.  
Assisted By: Ken Anderson  
Date: 1/11/2016





Dale Servais  
Some of Rip Rap sites Before



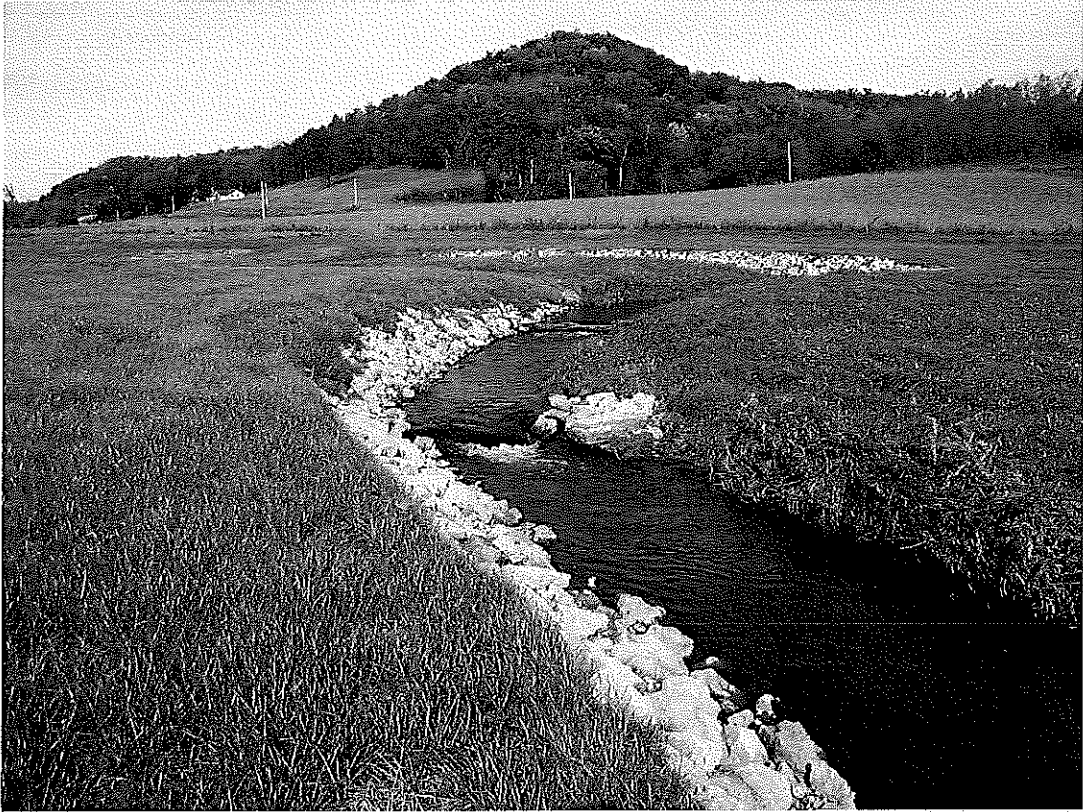








Dale Servais  
Some of Rip Rap sites After











# Rip Rap Sites

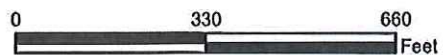
Location:  
Richland County, WI  
Willow (T10N-R2E) Section 19

Owners  
Ed & Colleen Uhlenhake

Richland County  
Land Conservatio Dept.  
Assisted By: Ken Anderson  
Date: 3/30/2017



Legend



Sheet 3 of 16



Ed Uhlenhake  
Some of Rip Rap sites Before









Ed Uhlenhake  
Some of Rip Rap sites After







# Soil loss on Streambanks

Dale Servais

$$\frac{2400 \text{ lin. ft.} \times 3 \text{ ft.} \times 0.4 \text{ ft./yr} \times 100 \text{ pcf}}{2000 \text{ lbs/ton}} = 144 \text{ ton/yr}$$

Scott Gald

$$\frac{225 \text{ lin. ft.} \times 4 \text{ ft.} \times 0.4 \text{ ft./yr} \times 100 \text{ pcf}}{2000 \text{ lbs/ton}} = 18 \text{ ton/yr.}$$

Ed Uhlenhake

$$\frac{1050 \text{ lin. ft.} \times 3 \text{ ft.} \times 0.4 \text{ ft./yr} \times 100 \text{ pcf}}{2000 \text{ lbs/ton}} = 63 \text{ ton/yr}$$

Direct Volume Method, FOTG