#22 Vilas Co Sucker Creek Culvert

State of Wisconsin Department of Natural Resources dnr.wi.gov

Due Date: April 15

Motorized Recreation Grant Application

For: (choose all that apply)

Form 8700-159 (R 04/22)

Page 1 of 5

⋈ ATV/UTV Trail Aid

Snowmobile Trail Aid

Notice: Completion of this form is required under Wisconsin Statutes 23.09(26) and 23.33. Failure to complete this form will result in denial of financial assistance. Personally identifiable information found on this form is not intended to be used for any other purpose. The Department of Natural Resources (DNR) may provide this information to requesters as required by Wisconsin's Public Records law (ss. 19.31 – 19.39, Wis. Stats.).

Instructions: Applications may combine more than one source of								DNR Use	Use Only		
be submitted for consideration of traditional ATV, UTV, Snowmobil Stewardship funding. Submit one copy of all forms and attachment necessary attachments. Send applications to your Community Sen					See Pag	ge 2 for	Category			Number	
Section 1: Applicant Info	ormation	1000									
Applicant / Organization Na	ime				Check R	ecipient:	Individual other tha	an authoriz	zed in	dividual to ac	
Vilas County Parks and Recreation					on behalf of the applicant. Select if the same as applical						
Individual Authorized to Act	on Behalf of Appl	icant p	er Reso	lution	Check R	ecipient	Name (Name to	Appear on	Chec	ck)	
Todd Bierman					Todd Bierman						
Title					Title						
Parks and Recreation Supervisor					Parks and Recreation Supervisor						
Address					Address						
330 Court Street					330 Cou	ırt Street	b!				
City	ty State ZIP Code			е	City State ZIP Code					ZIP Code	
Eagle River WI 54521			21	Eagle River WI 54521							
Telephone Number Email Address											
(715) 479-5160 tobier@vilascounty					i.gov						
Section 2: Project Inform	nation Required	for all	Project	s							
Project Title						Current Funded Miles Ne			w Miles (if applicable)		
Sucker Creek Bridge Replacement						499.6/37.2					
County	Township	Rang	e	Section	1/4 1/4	1/4	GPS Coordinate	oordinates:			
Vilas	40 N	10	OW	4	SE	NW	Long.				

bridge inspection report in included in this application to support this request. The bridge is located in Wisconsin DOT ROW and they have been notified that this is going to happen and have sent their requirements which are also attached. The Sno-Eagles snowmobile club and the Lanover ATV club maintain the trails in this area. We are propsing a 50/50 cost share on this project from the Snowmobile and ATV trail aids.

Total for project is \$83,915. Snow: \$41,957.50 ATV: \$41,957.50

Estimated Co Maintenance	Acquisition	Insurance	Development	Bridge Rehab.	Trail Rehab.	Total Estimated Cost
Maintenance	Acquisition	liisurance	Development	bridge Kerlab.	ITali Keliab.	Total Estimated Cost
				\$83,915.00	0	\$83,915.00
			Leave Blank - DNF	Use Only		
Applicant Cer	tification			1		
	of Authorized Office	ial	104	ficial's Title		
rinted Name (of Authorized Office	iai	01	iiciais Title		
As the applicar	nt's authorized office	cial I certify that to	the best of my know	vledge, the informat	ion in this applicat	tion is true and correct.

Signature of Authorized Official

31 26/2024 Date Prepared

Motorized Recreation Grant Application

Form 8700-159 (R 04/22)

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Appendix A – Require	ed for Bridge I	Rehal	o/Rep	lace, N	ew, or	Rerout	e with New B	Bridge			
⊠ Bridge Rehab/Rep	lace Nev	w Brid	ge	☐ R	eroute v	vith new	bridge				
County	Township	Range	© E	Section	Section 1/4 1/4 GPS Coordinates: Lat.		tes:				
Vilas	40 N	10	OW	4	SE	NW	Long.				
Water Body Name					Bridge Name County Inventory Numb						
Sucker Creek					Sucker Creek Bridge 39						
Funded Trail Name or Numb	er (SNARS if app	licable)					elopment or rehabilitation funds			
Corridor 10 & 13				in ti	ne past?	O Ye	s 📵 No Y	Year: \$			
Bridge is located on:	Private property			Old	Bridge/0	Culvert Si	ze 6'x6' Box C	Culvert			
()	Public property			Nev	w Bridge	Culvert S	Size 6'x6' Culve	ert			
Landowner Where Bridge is Located					Telephone Number Length of Trail Use Agreement (5 year						
Wisconsin Department of	Transportation	ROW		(71	5) 365-	3490	Perpetual	minimum)			
Current maximum load	90,000	lbs.	Age of	Bridge	Bridg	je Materia	al				
Proposed maximum load _	posed maximum load 25,000 lbs. Uknow					n Concrete					
Sponsoring Club Name					Club Contact Telephone Number						
Sno-Eagles/Landover					Roger Rosenthak/Roger Flaherty (847) 812-4903						
Do you have your trail bridge	the state of the s		load?	groom	ed with t	iximum lo his bridge		oridges on the system if			
What is the weight of your pr	uller & drag/gradir	ng equi	pment?	25000)						
20,000											
What other recreational trail	uses are planned	for this	bridge	?							
this is a funded snowmob	ile and summer	ATV/	UTV t	rail							
If there are other Recreation	al uses planned, l	now mu	uch of t	he bridge	cost wil	be paid	for by non-snowr	mobile or non-ATV users?			
50/50 split between snow	mobile and ATV	/ trail	aids.								
Yes	contacted your lo	cal DN	R Wate	er Manag	ement S	pecialist ((WMS) regarding	g a permit?			
Yes No Is a perm	it needed? (Pleas	e prov	ide any	written o	correspon	ndence fr	om WMS.)				
	contacted your C	ounty 2	Zoning	Dept. reg	arding a	floodplai	n determination?	>			
Yes No Will an H	& H (hydrologic a	nd hyd	draulic)	study be	required	1?					

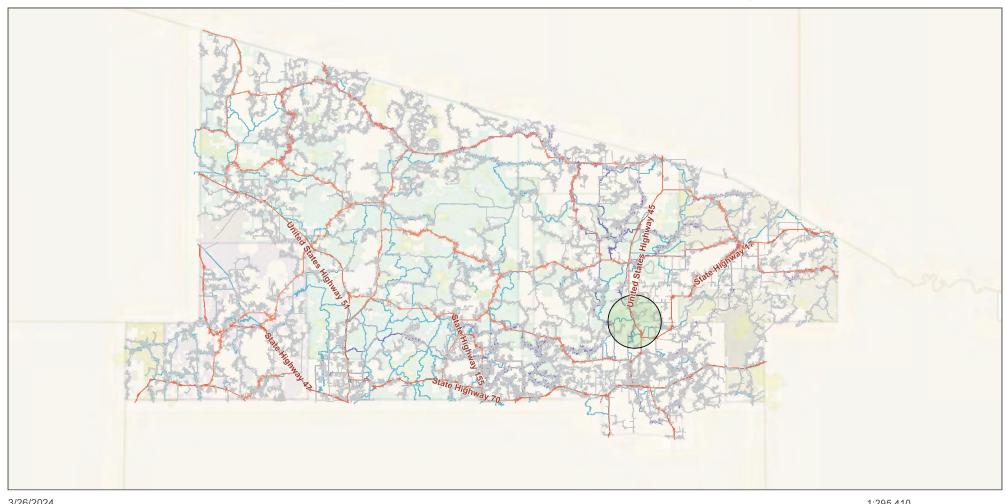
Bridge Project Detailed Description

The current box culvert is located on Corridor Trail 10 & 13 north of Eagle River WI. The date of its construction is unknown and was part of a railway that from USH 8 into the Upper Peninsula of Michigan and was used in the logging heydays. Time and weather have taken its toll on the concrete structure with scaling and weakening accruing. A copy of the updated bridge inspection report is attached as well as correspondence with the Wisconsin DOT, where the culvert is located in the ROW. We are proposing to removal the existing box culvert and replacing with a 6' culvert constructed of either plastic or galvanized steel. Rip rap and fill will be installed as needed with e-matting and grass seed to restore and keep the slope from washing out. Engineering and a plan set is being required from the DOT for the project. All permiting will be secured through the county.

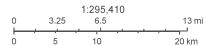
Motorized Recreation Grant Application Form 8700-159 (R 04/22) Page 4 of 5

	Bridge Structure				
	Quote 1	Quote 2			
	○ Steel ○ Wooden				
Bridge Dimensions:	72"x40'	72"x40'			
Bridge Manufacturer: Collins	Excavating, LLC.	Minocqua Grading, LLC			
Design Weight Load	25,000 lbs.				
Cost of Structure: 1. Engineering	\$	\$			
2. Structure	\$	\$			
Subto	tal \$	\$			
	Quote 1	Quote 2			
nstallation Costs:	○ Contractor or ○ Sponsor Estimate	○ Contractor or ○ SponsoEstimate			
1. Engineering	\$ 15,000	\$ 15,000			
2. Site Preparation	\$ 8,715	\$ 9,500			
3. Abutments	\$	\$			
4. Pilings/Piers	\$	\$			
5. Approaches	\$	\$			
6. Riprap	\$ 4,200	\$ 5,500			
7. Labor	\$	\$			
8. Equipment Rental	\$	\$			
9. Culverts	\$ 27,500	\$ 28,500			
10. H & H Study	\$	\$			
11. Wetland Delineation	\$ 6,000	\$ 6,000			
12. Other Bridge Removal	\$ 22,500	\$ 28,000			
Sub	otal \$83,915	\$ 92,500			
Total (Cost \$ 83,915	\$ 92,500			
For the application grant,	you must take the lowe				
Entire Deck and Railing Projects	○ Contract	or O Sponsor O Club			
Bridge Dimensions:					
Design Weight Load	lbs.				
1. Materials	\$				
2. Labor	\$				
7	otal \$				

Vilas County ATV & Snowmobile Trails/Sucker Creek Project

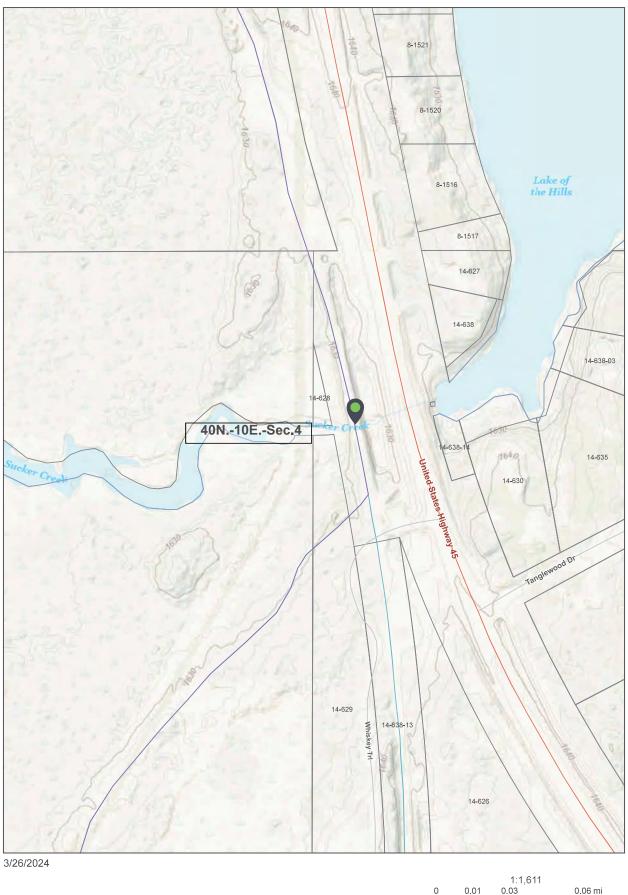


3/26/2024



Created by Vilas County Mapping Department, Vilas County Land Information

Sucker Creek Topo



1:1,611 0 0.01 0.03 0.06 mi 0 0.03 0.06 0.11 km Created by Vilas County Mapping Department

Sucker Creek Wetland Town of Conover L of the Hills Legend Lake Class Areas Riverine/ditch Class Areas TSK Wetland Class Areas Wetland Class Points Dammed pond Excavated pond Filled/drained wetland Wetland too small to delineate Filled excavated pond Filled Points Wetland Class Areas Filled Areas Wetland Identifications and Confirmations 53/E2K Railroads Sucker Cr. Town of Lincol 45) Tanglewood Drive TSK 0 0.03 0.1 Miles **Notes** 1:1,980 NAD_1983_HARN_Wisconsin_TM

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: http://dnr.wi.gov/legal/

Todd Bierman

From:

Ratty, Mark - DOT < Mark.Ratty@dot.wi.gov>

Sent:

Wednesday, January 10, 2024 9:23 AM

To:

Todd Bierman; Handrick, Richard - DOT

Subject: Attachments:

dt1504.docx

RE: Rec Bridges

For each location, we will require an engineered planset and all WisDNR permitting approved prior to WisDOT's approval. A Memorandum of Agreement (MOA) will be required between the County and WisDOT, outlining that County's responsibility to continue to maintain the structures.

Feel free to use this email for WisDOT's permission to apply for WisDNR permitting:

WisDOT – North Central Region, hereby extends permission to Vilas County and its agents to apply for a WisDNR permit to perform work related to construction of a snowmobile trail within the right of way of US 45 & Wis 47 in Vilas County. As a part of this work on US 45, replacement of an existing box culvert will be required. The old railroad bridge on Wis 47 over Mishanagon Creek will need to be rehabbed or replaced. WisDOT's permission for the work permit application includes the ability to apply to WisDNR for any permit requirements for work in these sensitive areas. Please contact Rich Handrick (715) 365-5716 or Mark Ratty (715) 365-5752 at WisDOT with any further questions.

Attached is an application to be completed and submitted for each location.

Has the County always been the one maintaining the structure along Wis 47? Has there been any tribal coordination with this proposed project?

From: Todd Bierman <tobier@vilascountywi.gov>

Sent: Thursday, January 04, 2024 3:02 PM

To: Ratty, Mark - DOT <Mark.Ratty@dot.wi.gov>; Handrick, Richard - DOT <Richard.Handrick@dot.wi.gov>

Subject: Rec Bridges

CAUTION: This email originated from outside the organization.

Do not click links or open attachments unless you recognize the sender and know the content is safe.

Good afternoon,

We have 2 potential bridge replacements that are located on DOT ROW. 1 on USH 45 ROW and one on STH 47 ROW.

The Sucker Creek Bridge is located 1.3 miles north of the STH 17 intersection in the Town of Lincoln. It is an old box culvert on the old railroad grade. This is currently a snowmobile and ATV/UTV Trail.

The Mishanagon Creek Bridge is 0.7 miles north of Matke Rd. and is an old railroad bridge. The abutments are starting to deteriorate. This is a current snowmobile trail.

Vilas Co Sucker Creek Culvert















Trail Bridge Inspection Vilas County

Bridge Name Vilas 39

Inspected By:
Patrick Hampston, P.E.

2/11/2024

Prepared By KBIS, LLC





W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report

General Information

The structure in this report was inspected by certified Wisconsin Department of Transportation Bridge Inspectors. Patrick Hampston, P.E. is a Bridge Inspection Team Leader and NSTM certified inspector.

The bridge was inspected with trail use in mind, using normal vehicle bridge standard to determine the condition of the structure.

All recommendations made in the report are also considering the use of the trail. Trail bridges in general should have a load rating considering all the possible uses of the structure. Even though the bridges may be just for snowmobiles, several types of vehicles may use the structure.

KBIS, recommends as a minimum that bridge owners load rate all the structures in their inventory and post a single ton sign at each bridge. It is a "insurance" policy for the owner if the bridge is damaged by a user that should not be using the structure. Also, grooming/trail equipment is getting large every year, so bridges again should be rated.

Location information/General Description:

Lat and Long: 45.981400, -89.249994

Bridge Condition

Condition State (CS) 1-Good, CS2-Fair, CS3-Poor, CS4-Critical

Roadway above structure has CS3 wheel ruts.

All signs have CS2 map cracking or minor damage.

West end of the box culvert and wingwalls have extensive spalls. Borderline CS4, with the amount of section loss. NW wingwall is missing 1/2 of its thickness.

The box culvert was built for Railroad by the appearance of it. It is very resilient. The main worry would be loss of fill above and around the structure.

The box has CS2 scaling on the wetted perimeter. There is moderate spalling at the top of the east end of box. Channel has a highway culvert and low head dam immediately upstream.

W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report

Report Summary

NBI Ratings: 9-7 Good, 6-5 Fair, 4-3 Poor, 2-1 Critical, 0-Closed

Culvert

#4

Channel

#6

Overall Condition

Poor

Recommendations/Maintenance Items:

Inspect on a regular schedule of 48 months.

Monitor the spalls on the West end of the structure.

Maintain proper drainage above the structure on the roadway.

CUT BRUSH AROUND THE ENTIRE STRUCTURE ANNUALLY

Signed By:



Digitally signed by Patrick Hampston

Date: 2024.02.15 19:18:59 -06'00'

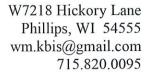
Patrick Hampston, P.E.



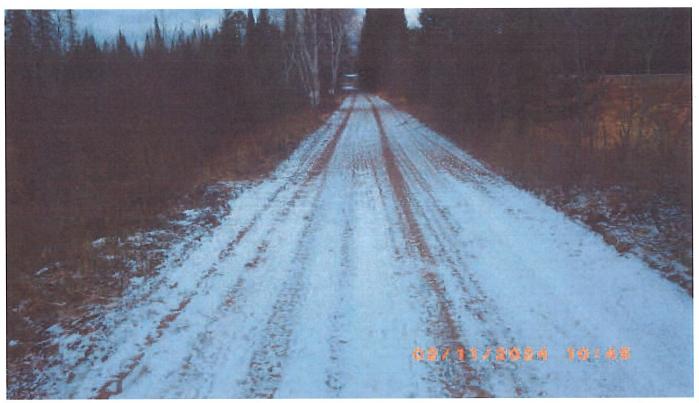




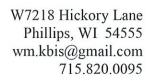
South bridge ahead / other signs







CS3 Roadway over structure







2022 CS3 road way over structure.





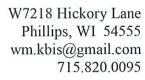


Looking upstream (highway culvert)

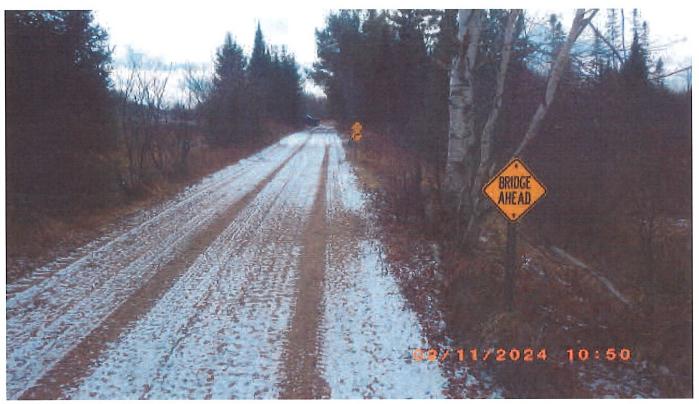




Looking downstream







North bridge ahead sign







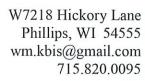
Inlet elevation view







NE wingwall









SE wingwall



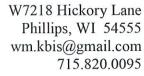


Spall on top of box, east end





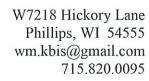
CS2 scaling on wetted perimeter of box







Top of box



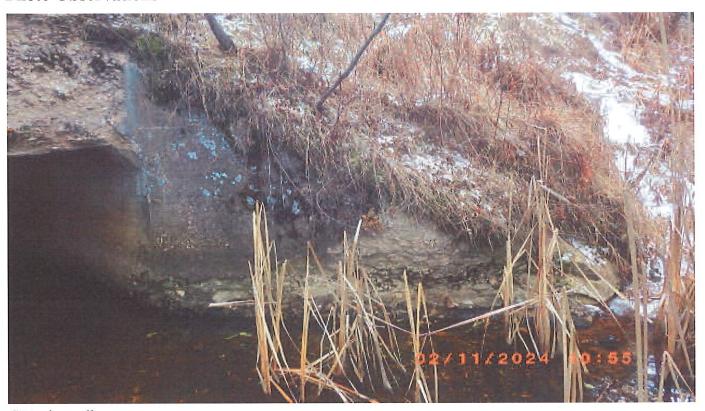




Outlet elevation view







SW wingwall





Top of box / headwall, west side





NW wingwall

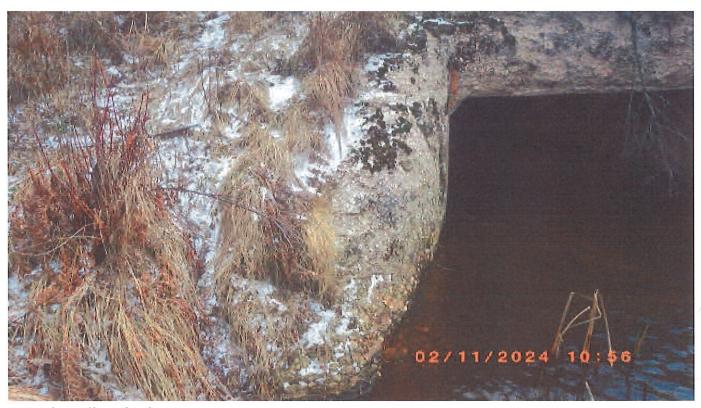


W7218 Hickory Lane Phillips, WI 54555 wm.kbis@gmail.com 715.820.0095

Bridge Inspection Report

Photo Observations

KBIS



NW wingwall section loss