

12300 Elm Creek Blvd • Maple Grove, Minnesota 55369-4718 • 763-445-5000 • Fax 763-445-5050 • www.greatriverenergy.com

June 9, 2015

VIA eMAIL: Andrew_Horton@FWS.gov

Mr. Andrew Horton, Habitat Conservation Biologist United States Department of the Interior Fish and Wildlife Service Twin Cities Field Office 4101 American Blvd. East Bloomington, MN 55425-1665

RE: Proposed Palisade 115 kV Transmission Project - Cass County

Dear Mr. Horton:

Great River Energy is currently gathering data to be used in preparation of a regulatory application necessary to obtain approval to construct the proposed Palisade 115 kilovolt (kV) Transmission Project (Project) in Cass County (see enclosed fact sheet and map). Great River Energy intends to seek a Route Permit for the Project from the Minnesota Public Utilities Commission. The proposed Project is needed to provide power to a new petroleum pump station (Palisade Pump Station) being proposed by Enbridge Energy (Enbridge).

The Project will include approximately 13 miles of 115 kV transmission line (see fact sheet map). The new line will begin near 390th Street and U.S. Hwy 169 at a new breaker station connected to the existing Minnesota Power 115 kV transmission line. The line will generally follow adjacent to Hwy 169 approximately 13 miles north to the new pump station near 510th Land and Hwy 169. In most cases, round wood transmission structures will be used that will range in height from 70 to 80 feet above ground.

The Fish and Wildlife Service website list for threatened and endangered species in Cass County includes the Canada lynx, Gray wolf, and the Northern long-eared bat (NLEB). Great River Energy does not believe the proposed transmission project will affect either the lynx or gray wolf, or the NLEB.

The U.S. Fish and Wildlife Service recently issued a final 4(d) rule on the northern long-eared bat. While the current DNR Natural Heritage Information System database does not list the bat in the vicinity of the project, we believe impacts to any bats present in the vicinity will be minimal because right-of-way clearing is scheduled to be completed January – April 2017; the final rule includes a conservation plan that limits tree removal work between June 1 to July 31.

Mr. Horton June 9, 2015 Page 2

As part of Enbridge's project, they used desktop analysis to identify areas of potentially suitable NLEB habitat along its preferred pipeline route both west and east of Clearbrook, MN. Data from this analysis were used to select survey target sites, which were reviewed and approved by the FWS prior to survey. Enbridge conducted presence/absence acoustic surveys in proximity to the Palisade Pump Station Project area between June 7 and July 25, 2014. Because this survey was conducted for pipeline permitting purposes (not transmission line permitting purposes), it only covered approximately the northern 3.5 miles of the transmission line Project area. There were 5 acoustic positives within 5 miles of linear survey in either direction of the Palisade Pump Station/transmission line Project area. The nearest NLEB acoustic detection was approximately 0.4 miles east of the transmission line, in Aitkin County. Of the eight follow-up mist net surveys conducted within this area, seven had positive NLEB captures. Follow-up telemetry surveys resulted in positive identification of two maternity roost trees, the closest being approximately 0.9 miles to the north of the Palisade Pump Station.

The DNR Rare features database indicates the following rare features intersect the proposed Project (see enclosed rare features map):

- Wilson's Phalarope (threatened)
- Yellow Rail (special concern)
- Upland Sandpiper (watch list)

Great River Energy is requesting concurrence or information on the possible effects of the proposed project on any listed or proposed threatened or endangered species and designated or proposed critical habitat that may be present in the project area.

We would appreciate receiving any written comments from your office by Monday, July 13, 2015. If you have any questions about this proposed project, please contact me at (763) 445-5210 or MStrohfus@GREnergy.com.

Thank you for your attention to this important project.

Sincerely,

GREAT RIVER ENERGY

Mark Strohfus

Environmental Projects Lead

Mark Sturkful

Enclosures: Fact Sheet/Project Map; Rare Features Map

S:\Legal\Environmental\Transmission\Projects\Palisade\Agencies\FWS\USFWS ltr - Palisade.docx

Palisade 115 kV Transmission Project



GREAT RIVER ENERGY 12300 Elm Creek Blvd Maple Grove, MN 55369-4718 1-888-521-0130 www.greatriverenergy.com



MILLE LACS ENERGY COOPERATIVE PO Box 230 Aitkin, MN 56431 1-800-450-2191

Project Need

Great River Energy, wholesale electric supplier to Mille Lacs Energy Cooperative and 27 other electric cooperatives, proposes to construct a new overhead 115 kilovolt (kV) transmission line and breaker station that is needed to provide electric power to a new petroleum pump station being proposed by Enbridge Energy (Enbridge). The Enbridge pump station is part of a pipeline replacement project that will require permits from the Minnesota Public Utilities Commission before it can be constructed.

Proposed Project

Two route options are proposed for the transmission line to provide alternatives for crossing the Mississippi River (see map on back).

East option

Under the East option the 13-mile transmission line would originate at a new breaker station proposed near the intersection of 390th Street and U.S. Highway 169. From there the route will follow Hwy 169 north for 13 miles, crossing the Mississippi River adjacent to Hwy 169 and terminating at the pump station location on the east side of Hwy 169 at 510th Lane.

West option

Under the West option the 13.5-mile transmission line would follow Hwy 169 from the proposed breaker station location and turn west on 430th Street. The route would continue for one-half mile to the termination of 430th Street. From here the route would follow a property line northwest across the Mississippi River to County Road 21. The route would follow County Road 21 for 1.2 miles back to Hwy 169 and north to the pump station location.

The proposed transmission line will consist of wood poles that are 350 to 400 feet apart and 70 to 80 feet above ground. Guy wires and anchors, when necessary, will be used to stabilize poles. Some specialty poles may also be required. The new transmission line will require a 100-foot-wide right of way, 50 feet on each side of the centerline. The opportunity to share road right of way along Hwy 169 will minimize easement requirements. Trees and vegetation in the right of way will be removed to provide a safe construction, operation and maintenance area.

Permitting

Great River Energy will submit a route permit application for the proposed Project to the Minnesota Public Utilities Commission (MPUC). During the route permit process, the public and regulatory agencies will have numerous opportunities to provide input on the proposed Project, including public meetings facilitated by the MPUC and Department of Commerce Energy Environmental Review and Analysis (DOC EERA) staff. The DOC EERA will prepare an Environmental Assessment (EA) for the Project. Construction cannot begin until an approved route permit is granted by the MPUC.

Easements/Trees

Once the Project has been approved, Great River Energy will contact landowners to present an easement and offer of compensation. At that time, information will be shared on tree removal, construction access and practices, and restoration of the right of way.

Project Schedule

Public contacts and/or notifications -----Project permitting -----Survey/design ----Easement acquisition/right-of-way permits -----Transmission line construction -----Energization ---

2nd quarter 2015 Summer 2015 to spring 2016 1st quarter 2016 Summer/fall 2016 Starts 2nd quarter 2017 Winter 2017/2018



Typical Transmission **Breaker Station**



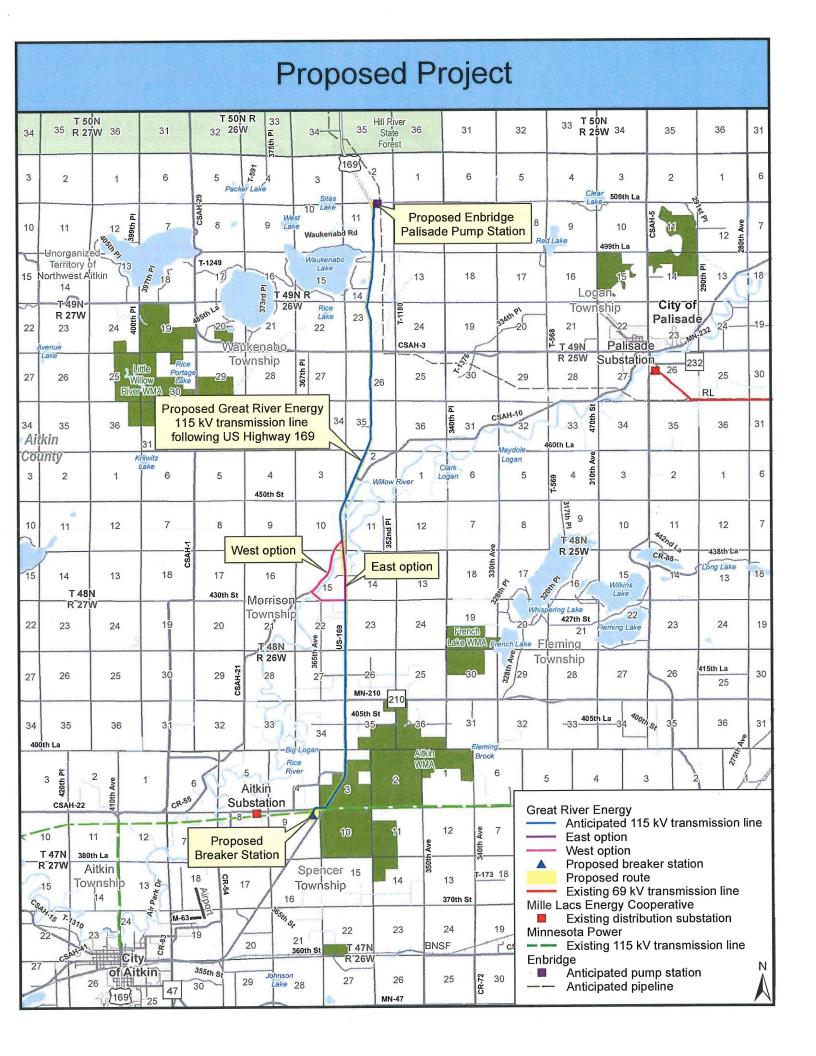
Typical 115 kV Wood Transmission Structure

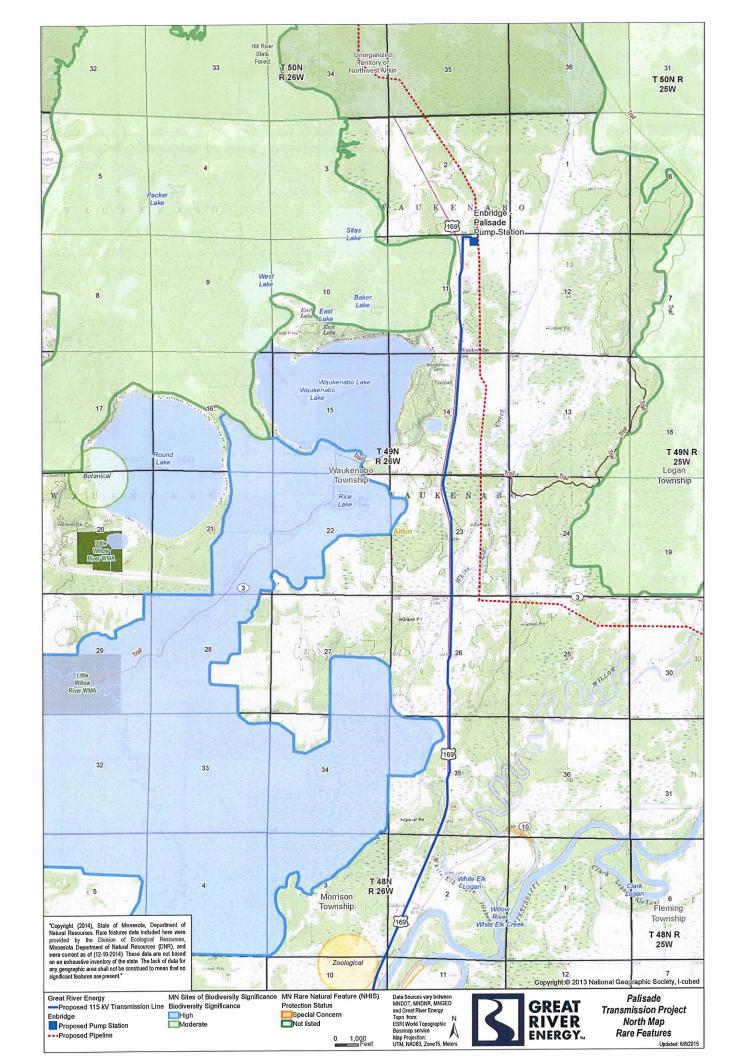
For project updates and information, visit greatriverenergy.com/palisade or contact:

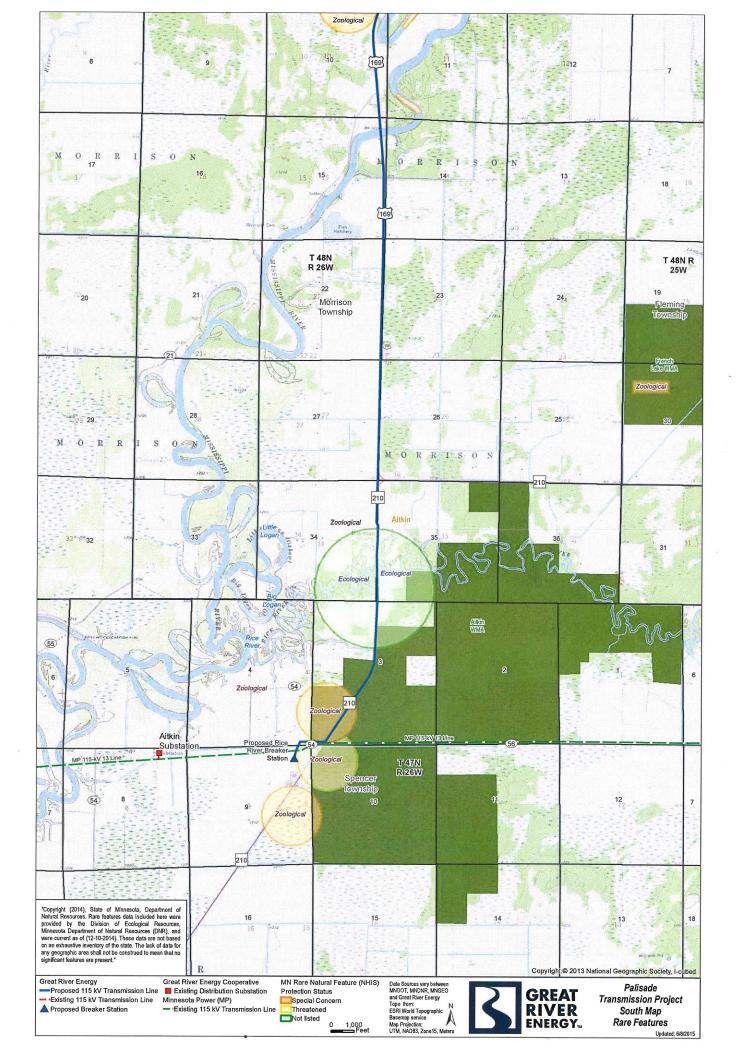
Dan Lesher Sr. Field Representative Great River Energy - Transmission Land Rights (763) 445-5975 or (612) 817-9910 dlesher@grenergy.com

Mark Strohfus **Environmental Project Lead Great River Energy** (763) 445-5210 mstrohfus@grenergy.com

Date last revised: 6/8/2015







Strohfus, Mark GRE-MG

From: Strohfus, Mark GRE-MG

Sent: Sunday, August 09, 2015 11:10 AM

To: 'Horton, Andrew'

Cc: Schmidt, Carole GRE-MG

Subject: FW: Palisade 115 kV Project - Request for Review USFWS ltr - Palisade.pdf; Palisade fact sheet 201506

Attachments: USFWS ltr - Palisade.pdf; Palisade fact sheet_20150608.pdf; Palisade RareFeatureMap11x17 20150608.pdf; Palisade 115 kV Transmission Line [Rare

Features Report]; NLEB Locations Map 2.pdf

Andrew,

On June 1, 2015, I sent you a request for comments on Great River Energy's proposed Palisade 115 kV Project. I have not yet received your response. I would like to submit our route permit application, including your comments, to the Public Utilities Commission the week of August 17th. Your comments would be greatly appreciated on or before Wednesday, August 13, 2015.

My original request is attached plus the recent results of the MN DNR NHIS review. You'll note that they have identified the NLEB within ¼ mile of the project (see NLEB Locations Map2.pdf).

The Project will also require a US Army Corps of Engineers Section 10 Permit because the proposed transmission line will cross the Mississippi River, a Section 10 listed water.

The Project schedule currently has tree clearing activities schedule for January through April or 2016.

If you have any questions, please contact me or Carole Schmidt (763-445-5214).

Thank You,

Mark Strohfus Environmental Project Lead

Great River Energy 12300 Elm Creek Boulevard Maple Grove, MN 55369-4718

Tel: 763-445-5210 | Cell: 612-961-9820

MStrohfus@GREnergy.com

From: Strohfus, Mark GRE-MG

Sent: Tuesday, June 09, 2015 3:15 PM

To: 'Horton, Andrew'

Subject: Palisade 115 kV Project - Request for Review

Mr. Horton:

Great River Energy request FWS review for our proposed Palisade 115 kV Project in Cass County, Mn. We respectfully request your review and response by Monday, July 13, 2015.

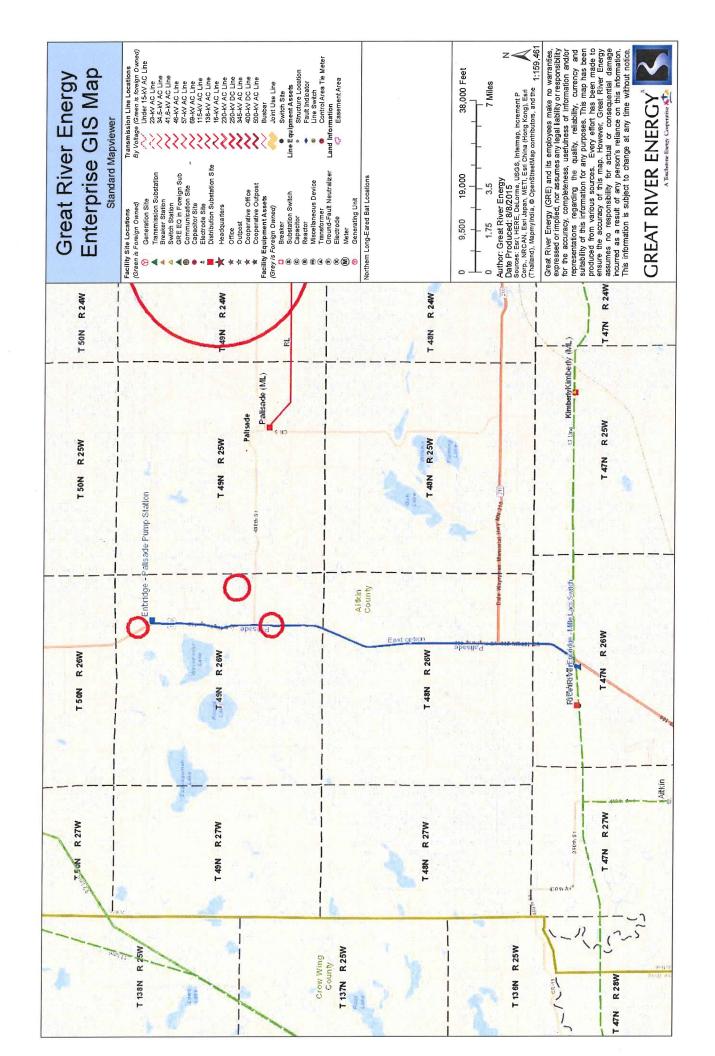
Attached are:

Letter requesting FWS review

- Project Fact Sheet
- DNR NHIS Rare Features Map

If you have any questions about the project or our request for review, please contact me.

Sincerely,
Mark Strohfus
Environmental Project Lead
Great River Energy
12300 Elm Creek Boulevard
Maple Grove, MN 55369-4718
Tel: 763-445-5210 | Cell: 612-961-9820



Strohfus, Mark GRE-MG

From:

Horton, Andrew [andrew horton@fws.gov]

Sent:

Thursday, August 13, 2015 3:12 PM

To: Subject: Strohfus, Mark GRE-MG; Schmidt, Carole GRE-MG Re: FW: Palisade 115 kV Project - Request for Review

Mark,

Sorry for the delay. I have been caught up on way too many projects for one person.

I have reviewed the project area and description of the proposed action. Whether there will be a likely affect to the northern long-eared bat depends on the amount of suitable roosting habitat that will be removed as a result of this project. Based on our records, there is one known roost tree within 0.25 miles of your project area, however we anticipate the NLEB to be present along the entirety of this route where suitable habitat occurs. Conducting the forest clearing between January and April 2017 will greatly reduce the likelihood of direct take of the species, however, any clearing in the month of April runs an increased chance that NLEB will be present within the project area.

If tree removal associated with this project is small and there is no clearing between April 1 and September 30th, then a no effect determination may be possible. Given this type of project however, I believe that the action will probably fall under a "may affect, but not likely to adversely affect" determination (but that is up to the US Army Corps to decide). Remember that regardless of whether the project fits under the 4(d) Rule, if there is a federal action, the federal action agency will need to make their determination of impacts under the Endangered Species Act.

- Andrew

Andrew Horton Twin Cities Ecological Services Field Office U.S. Fish and Wildlife Service 4101 American Blvd East Bloomington, MN 55425-1665 (612) 725-3548 ext. 2208

On Sun, Aug 9, 2015 at 11:09 AM, Strohfus, Mark GRE-MG < MStrohfu@grenergy.com > wrote:

Andrew,

On June 1, 2015, I sent you a request for comments on Great River Energy's proposed Palisade 115 kV Project. I have not yet received your response. I would like to submit our route permit application, including your comments, to the Public Utilities Commission the week of August 17th. Your comments would be greatly appreciated on or before Wednesday, August 13, 2015.

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The Project will also require a US Army Corps of Engineers Section 10 Permit because the proposed transmission line will cross the Mississippi River, a Section 10 listed water.

The Project schedule currently has tree clearing activities schedule for January through April or 2016.

If you have any questions, please contact me or Carole Schmidt (763-445-5214).

Thank You,

Mark Strohfus

Environmental Project Lead

Great River Energy

12300 Elm Creek Boulevard

Maple Grove, MN 55369-4718

Tel: 763-445-5210 | Cell: 612-961-9820

MStrohfus@GREnergy.com

From: Strohfus, Mark GRE-MG

Sent: Tuesday, June 09, 2015 3:15 PM

To: 'Horton, Andrew'

Subject: Palisade 115 kV Project - Request for Review

Mr. Horton:

Strohfus, Mark GRE-MG

From:

Strohfus, Mark GRE-MG

Sent:

Tuesday, June 09, 2015 9:16 AM

To:

'Review.NHIS@state.mn.us'

Subject:

Palisade 115 kV Project - NHIS Data Request (Message 1 of 2)

Attachments:

DNR ltr Palisade.pdf; Palisade fact sheet_20150608.pdf; DNR Maps.zip

Ms. Joyal,

Great River Energy request NHIS data review for our proposed Palisade 115 kV Project in Aitkin County. Please find attached in two separate email message (to keep message sizes < 10 MB) a:

- Project cover letter (1 of 2)
- Project fact sheet (1 of 2)
- Zipped rare features and hydrologic feature maps (1 of 2)
- NHIS data review request (2 of 2)
- Shape files for the proposed transmission line route (2 of 2)

We would appreciate your findings by July 13, 2015 so that we may incorporate them into our Route Permit Application to the Mn Public Utilities Commission.

If you or your staff have any questions on the data request or project, please contact me.

Sincerely,
Mark Strohfus

Environmental Project Lead

Great River Energy 12300 Elm Creek Boulevard Maple Grove, MN 55369-4718

Tel: 763-445-5210 | Cell: 612-961-9820

MStrohfus@GREnergy.com



12300 Elm Creek Blvd • Maple Grove, Minnesota 55369-4718 • 763-445-5000 • Fax 763-445-5050 • www.greatriverenergy.com

June 9, 2015

Ms. Lisa Joyal
Minnesota Department of Natural Resources
Natural Heritage and Nongame Research Program
500 Lafayette Road, Box 25
St. Paul, MN 55155

VIA eMAIL

RE:

Proposed Palisade 115 kV - Cass County NHIS Data Request

Dear Ms. Joyal:

Great River Energy is currently gathering data to be used in preparation of a regulatory application necessary to obtain approval to construct the proposed Palisade 115 kilovolt (kV) Transmission Project in Cass County (see enclosed fact sheet and map). Great River Energy intends to seek a Route Permit for the Project from the Minnesota Public Utilities Commission (PUC). The proposed Project is needed to provide power to a new petroleum pump station (Palisade Pump Station) being proposed by Enbridge Energy.

The Project will include approximately 13 miles of 115 kV transmission line (see fact sheet map). The new line will begin near 390th Street and U.S. Hwy 169 at a new breaker station connected to the existing Minnesota Power 115 kV transmission line. The line will generally follow adjacent to Hwy 169 approximately 13 miles north to the new pump station near 510th Land and Hwy 169. In most cases, round wood transmission structures will be used that will range in height from 70 to 80 feet above ground.

The transmission line will cross the Rice River, Mississippi River and two crossings of an unnamed stream (see enclosed hydrologic features map). There are also numerous wetlands adjacent to Hwy 169. Great River Energy will apply to the DNR for the water crossing license after the PUC issues a route permit.

The DNR Rare features database indicates the following rare features intersect the proposed Project (see enclosed rare features map):

- Wilson's Phalarope (threatened)
- Yellow Rail (special concern)
- Upland Sandpiper (watch list)

Ms. Joyal June 9, 2015 Page 2

The U.S. Fish and Wildlife Service recently issued a final 4(d) rule on the northern long-eared bat. While the current NHIS database does not list the bat in the vicinity of the project, we believe impacts to any bats present in the vicinity will be minimal because right-of-way clearing is scheduled to be completed January - April 2017; the final rule includes a conservation plan that limits tree removal from June 1 to July 31. As part of Enbridge's project, they used desktop analysis to identify areas of potentially suitable NLEB habitat along its preferred pipeline route both west and east of Clearbrook, MN. Data from this analysis were used to select survey target sites, which were reviewed and approved by the USFWS prior to survey. Enbridge conducted presence/absence acoustic surveys in proximity to the Palisade Pump Station Project area between June 7 and July 25, 2014. Because this survey was conducted for pipeline permitting purposes (not transmission line permitting purposes), it only covered approximately the northern 3.5 miles of the transmission line Project area. There were 5 acoustic positives within 5 miles of linear survey in either direction of the Palisade Pump Station/transmission line Project area. The nearest NLEB acoustic detection was approximately 0.4 miles east of the transmission line, in Aitkin County. Of the eight follow-up mist net surveys conducted within this area, seven had positive NLEB captures. Follow-up telemetry surveys resulted in positive identification of two maternity roost trees, the closest being approximately 0.9 miles to the north of the Palisade Pump Station.

Great River Energy is requesting concurrence of its interpretation of the rare features in the vicinity and the possible effects of the new transmission line and breaker station on wetlands, threatened and endangered species, and other important state natural resources that occur in the project area. A Data Request Form and shape file are attached.

We would appreciate receiving any written comments from your office by Monday, July 13, 2015. If you have any questions about this proposed project or the data request, please contact me at 763- 445-5210 or MStrohfus@GREnergy.com.

Thank you for your attention to this important project.

Sincerely,

GREAT RIVER ENERGY

Mark Strohfus

Environmental Projects Lead

Mach Sturkfiel

Enclosures:

Fact Sheet/Project Map; Hydrologic Features Map; Rare Features Map; Data

Request Form; Shapefile

Palisade 115 kV Transmission Project



GREAT RIVER ENERGY 12300 Elm Creek Blvd Maple Grove, MN 55369-4718 1-888-521-0130 www.greatriverenergy.com



MILLE LACS ENERGY COOPERATIVE PO Box 230 Aitkin, MN 56431 1-800-450-2191

Project Need

Great River Energy, wholesale electric supplier to Mille Lacs Energy Cooperative and 27 other electric cooperatives, proposes to construct a new overhead 115 kilovolt (kV) transmission line and breaker station that is needed to provide electric power to a new petroleum pump station being proposed by Enbridge Energy (Enbridge). The Enbridge pump station is part of a pipeline replacement project that will require permits from the Minnesota Public Utilities Commission before it can be constructed.

Proposed Project

Two route options are proposed for the transmission line to provide alternatives for crossing the Mississippi River (see map on back).

Under the East option the 13-mile transmission line would originate at a new breaker station proposed near the intersection of 390th Street and U.S. Highway 169. From there the route will follow Hwy 169 north for 13 miles, crossing the Mississippi River adjacent to Hwy 169 and terminating at the pump station location on the east side of Hwy 169 at 510th Lane.

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Easements/Trees

Once the Project has been approved, Great River Energy will contact landowners to present an easement and offer of compensation. At that time, information will be shared on tree removal, construction access and practices, and restoration of the right of way.

Project Schedule

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2nd quarter 2015 Summer 2015 to spring 2016 1st quarter 2016 Summer/fall 2016 Starts 2nd quarter 2017 Winter 2017/2018



Typical Transmission **Breaker Station**



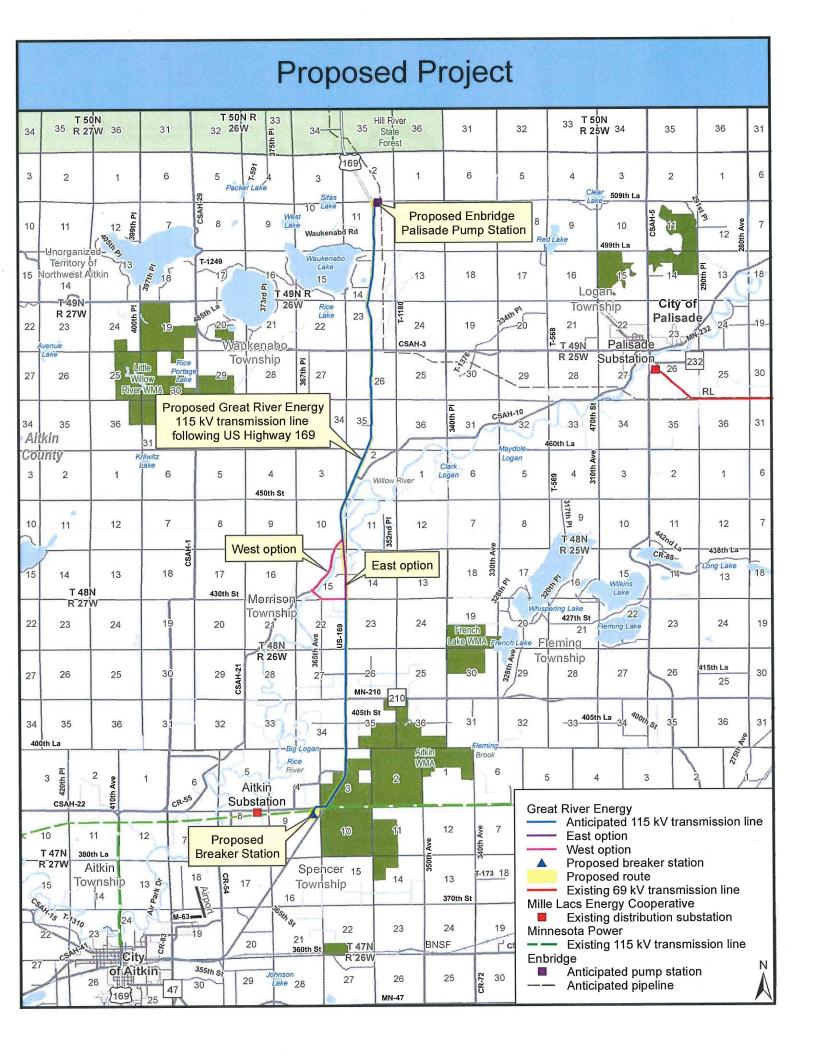
Typical 115 kV Wood Transmission Structure

For project updates and information, visit greatriverenergy.com/palisade or contact:

Dan Lesher Sr. Field Representative Great River Energy - Transmission Land Rights (763) 445-5975 or (612) 817-9910 dlesher@grenergy.com

Mark Strohfus **Environmental Project Lead Great River Energy** (763) 445-5210 mstrohfus@grenergy.com

Date last revised: 6/8/2015



Strohfus, Mark GRE-MG

From:

Strohfus, Mark GRE-MG

Sent:

Tuesday, June 09, 2015 9:22 AM

To: Cc: 'Review.NHIS@state.mn.us'

'Joyal, Lisa (DNR)'

Subject:

FW: Palisade 115 kV Project - NHIS Data Request (Message 2 of 2)

Attachments:

nhis data request-Palisade.pdf; PalisadeRoute.zip

From: Strohfus, Mark GRE-MG

Sent: Tuesday, June 09, 2015 9:19 AM

To: 'Joyal, Lisa (DNR)'

Subject: Palisade 115 kV Project - NHIS Data Request (Message 2 of 2)

Ms. Joyal,

Great River Energy request NHIS data review for our proposed Palisade 115 kV Project in Aitkin County. Please find attached in two separate email message (to keep message sizes < 10 MB) a:

- Project cover letter (1 of 2)
- Project fact sheet (1 of 2)
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- NHIS data review request (2 of 2)
- Shape files for the proposed transmission line route (2 of 2)

We would appreciate your findings by July 13, 2015 so that we may incorporate them into our Route Permit Application to the Mn Public Utilities Commission.

If you or your staff have any questions on the data request or project, please contact me.

Sincerely,

Mark Strohfus

Environmental Project Lead

Great River Energy 12300 Elm Creek Boulevard Maple Grove, MN 55369-4718

Tel: 763-445-5210 | Cell: 612-961-9820

MStrohfus@GREnergy.com

NO STAPLES	
PLEASE	



	For Agency Use Only:		#Sec Contact Rqsted?
2	Received Due	Inv	#EOs Survey Rqsted?
01	Search Radiusmi. L / I / D EM	Map'd	#Com
7	NoR / NoF / NoE / Std / Sub Let	Log out	Related ERDB#

NATURAL HERITAGE INFORMATION SYSTEM (NHIS) DATA REQUEST FORM Please read the instructions on page 3 before filling out the form. Thank youl

8	riease read the instructions on page 3 before filling out the form. I hank you!
	WHO IS REQUESTING THE INFORMATION?
Mr.	Name and Title Mark Strohfus
Ms.	Agency/Company Great River Energy
	Mailing Address 12300 Elm Creek Blvd, Maple Grove, MN 55369-4718
	Phone 763-445-5210 e-mail MStrohfus@GREnergy.com Responses will be sent via email. If you prefer US Mail check here:
	THIS INFORMATION IS BEING REQUESTED FOR A:
	☐ Federal EA ☐ State EAW ☑ PUC Site or Route Application ☐ Watershed Plan ☐ BER ☐ Federal EIS ☐ State EIS ☐ Local Government Permit ☐ Research Project ☐ NEPA Checklist ☑ Other (describe)
	Check here if this project is funded through any of the following grant programs: Lessard-Sams Outdoor Heritage Council (L-SOHC), Conservation Partners Legacy (CPL), or Legislative-Citizen Commission on Minnesota Resources (LCCMR).
	NFORMATION WE NEED FROM YOU:
	1) Enclose a map of the project boundary/area of interest (topographic maps or aerial photos are preferred). 2) Please provide a GIS shapefile* (NAD 83, UTM Zone 15N) of the project boundary/area of interest. 3) List the following locational information* (attach additional sheets if necessary): For Agency Use:
For Ager Region / I	ty Use: TRS Confirm
	Aitkin 48N 26W 2, 3, 10, 11, 14, 15, 22, 23, 26, 27, 34, 35
	Aitkin 49N 26W 11, 14, 23, 26, 35
	4) Please provide the following information (attach additional sheets if necessary):
	Project Name: Palisade 115 kV Project
_	Project Proposer: Great River Energy
	Description of Project (including types of disturbance anticipated from the project):
	Construction of approximately 13 miles of new, 115-kV transmission line from the existing Minnesota Power 115-kV transmission to a new substation that will serve the proposed new Enbridge Palisade Pump Station. The new transmission line will connect to the existing Minnesota Power transmission line near the intersection of U.S. Hwy 169 and 390th Street in Spencer Township, Aitkin County. The new transmission line will generally follow Hwy 169 northerly for roughly 12 miles to the new pump station

Option). See the enclosed project fact sheet for a description of the alternate route option.

^{*} Please see the instructions on page 3.

Describe the existing land use of the project site. What types	s of land cover / habitat will be impacted by the proposed
The proposed project would generally West Route Option.	follow existing road right-of-way except for the
List any waterbodies (e.g., rivers, intermittent streams, lakes discuss how they may be impacted (e.g., dewatering, dischar	, wetlands) that may be affected by the proposed project, and rge, riverbed disturbance).
The Rice River Mississippi River an unnamed stream in SESW 1/4 of Se	ect 35, T49N R26 W, and an unnamed stream in NWNE 1/4 of Sect 26, T49N ed route also follows along Hwy 169, which is bounded by numerous wetlands.
Does the project have the potential to affect any groundwate recharge, or contamination)?	r resources (e.g., groundwater appropriation, change in
No.	
To your knowledge, has the project undergone a previous Na ERDB # How does this request differ from boundary, project being revived, project expansion, different	atural Heritage review? If so, please list the correspondence #: om the previous request (e.g., change in scope, change in t phase)?
No	
To your knowledge, have any native plant community or rar list: No.	re species surveys been conducted within the site? If so, please
List any DNR Permits or Licenses that you will be applying	for or have already applied for as part of this project:
We will be applying for a DNR License to Cross the PWI	waterbodies listed above.
Check here if you are interested in a list of rare feat review of potential effects to rare features. Please I	tures in the vicinity of the area of interest but you do not need a list the reason a review is not needed:
2) Depending on the results of the query or review, the response and known occurrences of federally and state-listed plants at project boundary/area of interest. The Index Report and National review document.	onse may include an Index Report of known aggregation sites nd animals* within an approximate one-mile radius of the tural Heritage letter can be included in any public
3) A Detailed Report that contains more information on each Detailed Report may contain specific location information the subd. 2, and, as such, the Detailed Report may not be included.	hat is protected under Minnesota Statutes, section 84.0872,
Check here if you would like to request a Detailed Effects' or a standard comment, a Detailed Report	Report. Please note that if the results of the review are 'No may not be available.
FEES / TURNAROUND TIME	
There is a fee* for this service. Requests generally take 3-4 order received.	weeks from date of receipt to process, and are processed in the
from the Natural Heritage Information System is copyrighted a ighted material without prior written permission from the DNR	plied above is complete and accurate. I understand that material supplied and that I am not permitted to reproduce or publish any of this I. Further, if permission to publish is given, I understand that I must I I I I I I I I I I I I I I I I I I I
ture ired)	Note: Digital signatures representing the name of a person shall be sufficient to show that such person has signed this document.

Mail or email completed form to: Lisa Joyal, Endangered Species Review Coordinator Division of Ecological and Water Resources Minnesota Department of Natural Resources 500 Lafayette Road, Box 25

Form is available at http://files.dnr.state.mn.us/eco/nhnrp/nhis_data_request.pdf

St. Paul, Minnesota 55155 Review.NHIS@state.mn.us

Revised March 2, 2012

Minnesota Department of Natural Resources



Division of Ecological and Water Resources, Box 25

500 Lafayette Road St. Paul, Minnesota 55155-4025

Phone: (651) 259-5091 E-mail: samantha.bump@state.mn.us

August 7, 2015

Correspondence # ERDB 20160019

Mr. Mark Strohfus Great River Energy 12300 Elm Creek Boulevard Maple Grove, MN 55369-4718

RE: Natural Heritage Review of the proposed Palisade 115 kV Project, Aitkin County

Township (N)	Range (W)	Section(s)
47	26	3,9,10
48	26	2,3,10,11,14,15,22,23,26,27,34,35
49	26	11,14,23,26,35

Dear Mr. Strohfus,

As requested, the Minnesota Natural Heritage Information System has been queried to determine if any rare species or other significant natural features are known to occur within an approximate one-mile radius of the proposed project. Based on this query, rare features have been documented within the search area (see the enclosed database report; please visit the Rare Species Guide at http://www.dnr.state.mn.us/rsg/index.html for more information on the biology, habitat use, and conservation measures of these rare species). Please note that the following rare features may be adversely affected by the proposed project:

• The Minnesota Biological Survey (MBS) has identified two Sites of Biodiversity Significance adjacent to the proposed project. Sites of Biodiversity Significance have varying levels of native biodiversity and are ranked based on the relative significance of this biodiversity at a statewide level. Factors taken into account during the ranking process include the number of rare species documented within the site, the quality of the native plant communities in the site, the size of the site, and the context of the site within the landscape (See enclosed map; GIS shapefiles of MBS Sites of Biodiversity Significance and MBS Native Plant Communities can be downloaded from the MN Geospatial Commons at https://gisdata.mn.gov/). In particular, there is a Sedge Meadow, an uncommon but not rare native plant community in Minnesota, adjacent to the proposed project.

Given that activities in road rights-of-way can negatively affect adjacent native plant communities, especially through the introduction of invasive plant species, disturbance near these ecologically significant areas should be minimized. Actions to minimize disturbance may include, but are not limited to, the following recommendations:

- Confine construction activities to the opposite side of the road from the Sites of Biodiversity. If this is not feasible, confine construction activities to the existing road rights-of-way;
- As much as possible, operate within already-disturbed areas;
- Minimize vehicular disturbance in the area (allow only vehicles necessary for the proposed work);
- Do not park equipment or stockpile supplies in the area;
- Do not place spoil within MBS Sites or other sensitive areas;

- > Inspect and clean all equipment prior to bringing it to the site to prevent the introduction and spread of invasive species;
- If possible, conduct the work under frozen ground conditions;
- Use effective erosion prevention and sediment control measures;
- Revegetate disturbed soil with native species suitable to the local habitat as soon after construction as possible; and
- ➤ Use only weed-free mulches, topsoils, and seed mixes. Of particular concern are birdsfoot trefoil (*Lotus corniculatus*) and crown vetch (*Coronilla varia*), two invasive species that are sold commercially and are problematic in prairies and disturbed open areas, such as roadsides.
- There are several breeding records of rare birds in the vicinity of the proposed project.
 Potential impacts include disturbance due to construction during the nesting season and fatalities due to collisions or electrocutions. Consideration should be given to timing of construction and the use of bird diverters.
- The northern long-eared bat (*Myotis septentrionalis*), a state-listed species of special concern, can be found throughout Minnesota and is known to occur in the vicinity of the proposed project. During the winter this species hibernates in caves and mines, and during the active season (approximately April-October) it roosts underneath bark, in cavities, or in crevices of both live and dead trees. Activities that may impact this species include, but are not limited to, wind farm operation, any disturbance to hibernacula, and destruction/degradation of habitat (including tree removal).

Effective May 4, 2015, the U.S. Fish and Wildlife Service (USFWS) listed the northern long-eared bat as threatened under the Endangered Species Act (ESA) and implemented an interim 4(d) rule. If you believe that your project may adversely affect ("take") the northern long-eared bat, you should determine whether the "take" is exempt under the interim 4(d) rule or whether you need a Federal permit. To make this determination, please refer to the USFWS Key to the Interim 4(d) Rule available at http://www.fws.gov/midwest/endangered/mammals/nleb/Interim4dRuleKeyNLEB.html.

Please note that the NHIS contains two known occurrences of northern long-eared bat tree roosts that may be within ¼ mile of the proposed project.

- The creek heelsplitter (Lasmigona compressa) and the black sandshell (Ligumia recta), both state-listed mussels of special concern, have been documented in the Mississippi River in the vicinity of the proposed overhead crossing. As mussels are particularly vulnerable to deterioration in water quality, especially increased siltation, it is important that effective erosion and sediment control practices be implemented and maintained near the river.
- Please note that the proposed project is within the Leech Lake Reservation 1855 Treaty Area. Under federal treaties, Bands reserved rights to many resources, some of which might be identified in this review. To determine if this is the case in this review, I recommend that you contact the Band's Natural Resources Program. Failure to do so, and address the issues identified, could result in complications or delays in your project. The current contact at the Band is Steve Mortensen, Fish, Wildlife, and Plant Resources Program Director, Division of Resource Management (218-335-7421 or smortensen@lldrm.org).
- Please include a copy of this letter in any DNR license or permit application.

The Natural Heritage Information System (NHIS), a collection of databases that contains information about Minnesota's rare natural features, is maintained by the Division of Ecological and Water Resources, Department of Natural Resources. The NHIS is continually updated as new information becomes available, and is the most complete source of data on Minnesota's rare or otherwise significant species, native plant communities, and other natural features. However, the NHIS is not an exhaustive inventory and thus does not represent all of the occurrences of rare features within the state. Therefore, ecologically significant features for which we have no records may exist within the project area. If additional information becomes available regarding rare features in the vicinity of the project, further review may be necessary.

The enclosed results include an Index Report of records in the Rare Features Database, the main database of the NHIS. To control the release of specific location data, the report is copyrighted and only provides rare features locations to the nearest section. The Index Report may be reprinted, unaltered, in any environmental review document (e.g., EAW or EIS), municipal natural resource plan, or report compiled by your company for the project listed above. If you wish to reproduce the Index Report for any other purpose, please contact me to request written permission.

For environmental review purposes, the results of this Natural Heritage Review are valid for one year; the results are only valid for the project location (noted above) and the project description provided on the NHIS Data Request Form. Please contact me if project details change or for an updated review if construction has not occurred within one year.

The Natural Heritage Review does not constitute review or approval by the Department of Natural Resources as a whole. Instead, it identifies issues regarding known occurrences of rare features and potential effects to these rare features. To determine whether there are other natural resource concerns associated with the proposed project, please contact your DNR Regional Environmental Assessment Ecologist (contact information available at http://www.dnr.state.mn.us/eco/ereview/erp regioncontacts.html). Please be aware that additional site assessments or review may be required.

Thank you for consulting us on this matter, and for your interest in preserving Minnesota's rare natural resources. An invoice will be mailed to you under separate cover.

Sincerely,

Samantha Bump

Natural Heritage Review Specialist

enc:

Rare Features Database: Index Report

Map

Links:

MBS Sites of Biodiversity Significance

http://www.dnr.state.mn.us/eco/mcbs/biodiversity_guidelines.html

DNR Native Plant Communities

http://www.dnr.state.mn.us/npc/index.html USFWS Northern Long-eared Bat Website

http://www.fws.gov/midwest/endangered/mammals/nleb/index.html

USFWS Northern Long-eared Bat Fact Sheet

http://www.fws.gov/midwest/endangered/mammals/nleb/nlebFactSheet.html

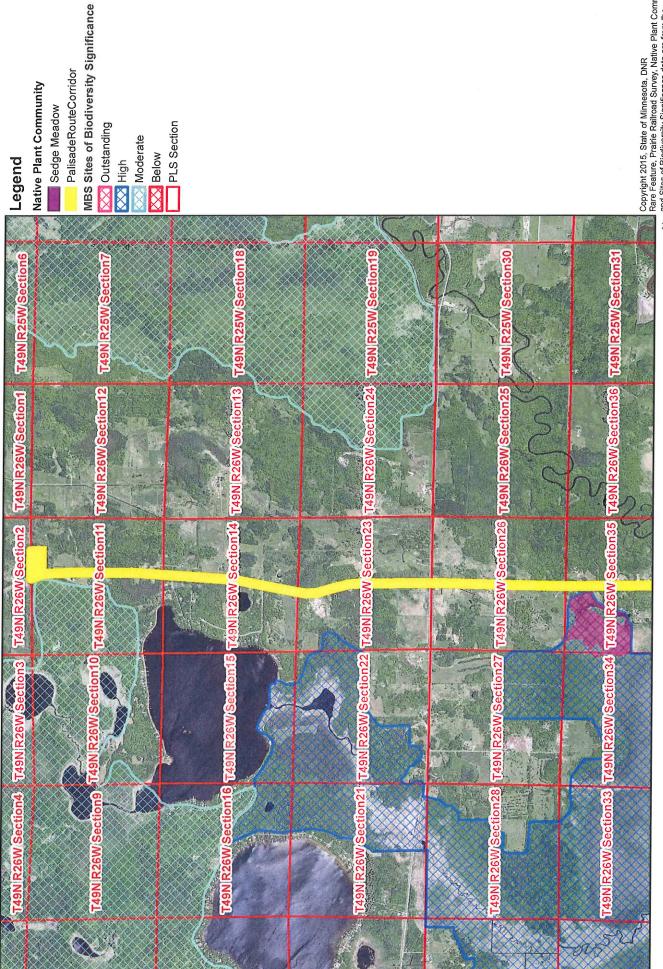
cc:

Rian Reed

Joe Rokala

ERDB# 20160019 - Palisade 115 kV Project Multiple TRS Aitkin County

GIS shapefiles of MBS Sites of Biodiversity Significance and DNR Native Plant Communities can be downloaded from the MN Geospatial Commons at https://gisdata.mn.gov/.



Copyright 2015, State of Minnesota, DNR
Rare Feature, Prairie Railroad Survey, Native Plant Community,
N and Sites of Biodiversity Significance data are from the
Natural Heritage Information System. The absence of rare features
for a particular location should not be construed to mean that the
DNR is confident rare features are absent from that location.

-

I.

Printed August 2015 Data valid for one year

Minnesota Natural Heritage Information System Index Report of records within 1 mile radius of: ERDB# 20160019 - Palisade 115 kV Project Multiple TRS Aitkin County

Rare Features Database:								
Element Name and Occurrence Number	Federal Status	MN Status	Draft Status	SGCN Status	State Rank	Global Rank	Last Obs Date	EO ID#
Vertebrate Animal								
Bartramia longicauda (Upland Sandpiper) #33 T48N R26W S33, T48N R26W S26, T47N R26W S3, T48N R26W S28, T []; Aitkin County	ŕ	Watchlist		SGCN	S4B	G5	1992-06-20	7900
Bartramia longicauda (Upland Sandpiper) #248 T47N R26W S4; Aitkin County		Watchlist		SGCN	S4B	G5	1989-07-18	11955
Coturnicops noveboracensis (Yellow Rail) #7 T48N R26W S10, T48N R26W S3; Airkin County		SPC		SGCN	S3B	G4	1973	1580
Coturnicops noveboracensis (Yellow Rail) #9 T47N R26W S10, T47N R26W S9; Aitkin County		SPC		SGCN	S3B	G4	1973	1582
Coturnicops noveboracensis (Yellow Rail) #10 T47N R26W S3, T47N R26W S4; Aitkin County		SPC		SGCN	S3B	G4	1973-05	1583
<u>Haliaeetus leucocephalus</u> (Bald Eagle) #2041 T47N R26W S4; Aitkin County	·	Watchlist		SGCN	S3B,S3N	G5	2005-03-28	26870
<u>Myotis septentrionalis</u> (Northern Long-Eared Bat) #40 T49N R26W S2; Aitkin County	LT	SPC		SGCN	S3	G1G3	2014-Summer	38154
Myotis septentrionalis (Northern Long-Eared Bat) #41 T49N R24W S22, T49N R24W S28, T49N R26W S24, T49N R26W S26, T []; Aitkin County	LT	SPC		SGCN	S3	G1G3	2014-08-08	38155
<u>Phalaropus tricolor</u> (Wilson's Phalarope) #22 T47N R26W S10, T47N R26W S3, T47N R26W S9, T47N R26W S4; Aitkin County		THR		SGCN	S2B	G5	1972-06-17	7826
Invertebrate Animal								
<u>Lasmigona compressa</u> (Creek Heelsplitter) #214 T48N R26W S11, T48N R26W S1, T49Ņ R26W S35, T49N R26W S36; Aitkin County	8	SPC		SGCN	S3	G5	2007-06-19	32817
Ligumia recta (Black Sandshell) #381 T49N R25W S19, T49N R25W S30, T48N R26W S11, T48N R26W S1, T []; Aitkin County		SPC		SGCN	S3	G4G5	2007-06-19	32816

Other (Ecological)

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Minnesota Natural Heritage Information System Index Report of records within 1 mile radius of: ERDB# 20160019 - Palisade 115 kV Project Multiple TRS Aitkin County

Rare Features Database:		Federal	X	Draft	Draft SGCN State	State	Global	Global Last Obs	;
Element Name and Occurrence Number		Status	Status	Status	Status Status Status Rank	Rank	Rank	Date	EO ID#
Other (Ecological)									
Sedimentary structure (quaternary) #7 T47N R26W S3, T48N R26W S35, T48N R26W S34; Aitkin County			N/A			SNR	GNR	1980	134
Sedimentary unit or sequence (quaternary) #22 T47N R26W S3, T48N R26W S35, T48N R26W S34; Aitkin County			N/A			SNR	GNR	1980	227
Records Printed = 13	Minnesota's endangered species law (<i>Minnesota Statutes</i> , section 84.0895) and associated rules (<i>Minnesota Rules</i> , part 6212.1800 to 6212.2300 and 6134) prohibit the taking of threatened or endangered species without a permit. For plants, taking includes digging or destroying. For animals, taking includes pursuing, capturing, or killing.	law (<i>Min</i> 34) prohib oying. Fo	<i>resota Sta</i> it the takir r animals,	<i>utes</i> , sect ig of threa taking inc	ion 84.089 itened or e ludes purs	5) and ass ndangered uing, captı	ociated rule species wit rring, or kill	s (<i>Minnesota F</i> hout a permit. ing.	ules, part For plants,

An Explanation of Fields:

Element Name and Occurrence Number: The Element is the name of the rare feature. For plant and animal species records, this field holds the scientific name followed by the common name in parentheses; for all other elements it is solely the element name. Native plant community names correspond to Minnesota's Native Plant Community Classification (Version 2.0). The Occurrence Number, in combination with the Element Name, uniquely identifies each record. Federal Status: The status of the species under the U.S. Endangered Species Act: LE = endangered; LT = threatened; LE,LT = listed endangered in part of its range, listed threatened in another part of its range; LT,PDL = listed threatened, proposed for delisting; C = candidate for listing. If null or No Status,' the species has no federal status.

MN Status: The legal status of the plant or animal species under the Minnesota Endangered Species Law: END = endangered; THR = threatened; SPC = special concern; NON = tracked, but no legal status. Native plant communities, geological features, and colonial waterbird nesting sites do not have any legal status under the Endangered Species Law and are represented by a N/A.

Draft Status: Proposed change to the legal status of the plant or animal species under the Minnesota Endangered Species Law: END = endangered; THR = threatened; SPC = special concern; Watchlist = tracked, but no legal status.

SGCN Status: SGCN = The species is a Species in Greatest Conservation Need as identified in Minnesota's State Wildlife Action Plan (http://www.dnr.state.mn.us/cwcs/index.html). This designation applies to animals only.

factors making it vulnerable to extirpation. S4 = Apparently secure in Minnesota, usually widespread. S5 = Demonstrably secure in Minnesota, essentially ineradicable under present conditions. SH = Apparently secure in Minnesota, essentially ineradicable under present conditions. Critically imperiled in Minnesota because of extreme rarity or because of some factor(s) making it especially vulnerable to extirpation from the state. S2 = Imperiled in Minnesota because of rarity or occurrences in the state were destroyed or if it had been extensively and unsuccessfully looked for. SNR = Rank not yet assessed. SU = Unable to rank. SX = Presumed extinct in Minnesota. SNA = Of historical occurrence in the state, perhaps having not been verified in the past 20 years, but suspected to be still extant. An element would become SH without the 20-year delay if the only known because of some factor(s) making it very vulnerable to extirpation from the state. S3 = Vulnerable in Minnesota either because rare or uncommon, or found in a restricted range, or because of other Rank not applicable. S#S# = Range Rank: a numeric range rank (e.g., S2S3) is used to indicate the range of uncertainty about the exact status of the element. S#B, S#N = Used only for migratory Minnesota Department of Natural Resources to set priorities for research, inventory and conservation planning. The state ranks are updated as inventory information becomes available. S1 = State Rank: Rank that best characterizes the relative rarity or endangerment of the taxon or plant community in Minnesota. The ranks do not represent a legal status. They are used by the

Printed August 2015 Data valid for one year

Minnesota Natural Heritage Information System Index Report of records within 1 mile radius of: ERDB# 20160019 - Palisade 115 kV Project Multiple TRS Aitkin County animals, whereby B refers to the breeding population of the element in Minnesota and N refers to the non-breeding population of the element in Minnesota.

basis) to G5 (demonstrably secure, though perhaps rare in parts of its range). Global ranks are determined by NatureServe, an international network of natural heritage programs and conservation data Global Rank: The global (i.e., range-wide) assessment of the relative rarity or imperilment of the species or community. Ranges from G1 (critically imperiled due to extreme rarity on a world-wide centers.

Last Observed Date: Date that the Element Occurrence was last observed to be extant at the site in format YYY-MM-DD.

EO ID #: Unique identifier for each Element Occurrence record.

evidenced by potential continued (or historical) presence and/or regular recurrence at a given location. Specifications for each species determine whether multiple observations should be considered Element Occurrence: An area of land and/or water in which an Element (i.e., a rare species or community) is, or was, present, and which has practical conservation value for the Element as 1 Element Occurrence or 2, based on minimum separation distance and barriers to movement.