

Minnesota Department of Natural Resources Division of Ecological & Water Resources 500 Lafayette Road, Box 25 St. Paul, MN 55155-4025

April 2, 2024 **Correspondence # MCE 2023-00935**

Mandy Bohnenblust Merjent, Inc

RE: Natural Heritage Review of the proposed **Dairyland Wabasha Relocation Project,** Wabasha County

Dear Mandy Bohnenblust,

As requested, the <u>Minnesota Natural Heritage Information System</u> has been reviewed to determine if the proposed project has the potential to impact any rare species or other significant natural features. Based on the project details provided with the request, the following rare features may be impacted by the proposed project:

Ecologically Significant Areas

• A calcareous fen (McCarthy Lake, ID# 31975) was documented in the vicinity of the proposed project. A calcareous fen is a rare and distinctive peat-accumulating wetland that is legally protected in Minnesota. The Wetlands Conservation Act (WCA), authorized by Minnesota Statutes, section 103G.223, states that calcareous fens may not be filled, drained, or otherwise degraded, wholly or partially, by any activity, except as provided for in a management plan approved by the commissioner of the Department of Natural Resources. Many of the unique characteristics of calcareous fens result from the upwelling of groundwater through calcareous substrates. Because of this dependence on groundwater hydrology, calcareous fens can be affected by nearby activities or even those several miles away. For more information regarding calcareous fens, please see the Calcareous Fen Fact Sheet. To minimize stormwater impacts, please refer to the Minnesota Pollution Control Agency's General Principles for Erosion Prevention and Sediment Control in the Minnesota Stormwater Manual. Please note that calcareous fens are "Special Waters" and a buffer zone may be required.

Calcareous fens may be impacted by activities within the fen, activities that affect surface water flows (e.g., stormwater flow, erosion), or activities that affect groundwater hydrology (e.g., groundwater pumping, contamination, discharge, or excavation). To ensure compliance under WCA, please contact the Calcareous Fen Program Coordinator, Keylor Andrews (Keylor.Andrews@state.mn.us).

The Minnesota Biological Survey (MBS) has identified 1 Site of *Outstanding*, 1 Sites of *High*, and 2 Sites of *Moderate* Biodiversity Significance in the vicinity of 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. Sites ranked as *Outstanding* contain the best occurrences of the rarest species, the most outstanding examples of the rarest native plant communities, and/or the largest, most intact functional landscapes present in the state. Sites ranked as *High* contain very good quality occurrences of the rarest species, high quality examples of the rare native plant communities, and/or important functional landscapes. Sites ranked as *Moderate* contain occurrences of rare species and/or moderately disturbed native plant communities, and/or landscapes that have a strong potential for recovery. Please see your MCE-generated Conservation Planning Report for a comprehensive list of MBS Sites of Biodiversity Significance (attached).

This Site contains Silver Maple-Virginia Creeper Floodplain Forest (FFs68) native plant community directly adjacent to the proposed project. This community is considered **vulnerable to extirpation** (S3) within Minnesota. This floodplain forest contains <u>swamp white oak</u> (*Quercus bicolor*), a tree species of special concern.

Given the ecological significance of these areas, we recommend that the project be designed to avoid impacts to the native plant communities by confining construction activities to the opposite side of the road. Actions to minimize disturbance may include, but are not limited to, the following recommendations:

- As much as possible, operate within already-disturbed areas.
- Retain a buffer between proposed activities and both MBS Sites and rare NPCs (S1-S3).
- Confine construction activities to the opposite side of the road from MBS Sites and rare NPCs (S1-S3). If this is not feasible, confine construction activities to the existing road rights-of-way.
- 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.
- o If possible, conduct the work under frozen ground conditions.

- Inspect and clean all equipment prior to bringing it to the site to prevent the introduction and spread of invasive species.
- Use effective erosion prevention and sediment control measures.
- Revegetate disturbed soil with <u>native species suitable to the local habitat</u> as soon after construction as possible.
- Use only weed-free mulches, topsoils, and seed mixes. Of particular concern is 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.

Construction in streambeds, lakes, and wetlands should be avoided whenever possible via spanning waterbodies. If spanning is not feasible, actions to minimize disturbance may include, but are not limited to, the following recommendations:

- Work in watercourses should be conducted during low flow whenever possible.
- o If possible, conduct the work under frozen ground conditions.
- Wetland basins, lake beds, and stream/riverbeds should be restored to preconstruction contours. The work should not promote wetland drainage.
- Appropriate <u>wildlife friendly erosion control</u> measures, such as fabric, straw bales, mulch, and silt fences should be used to prevent sedimentation of adjacent wetlands, lakes, or watercourses.
- Impacts to existing vegetation should be kept to a minimum. Disturbed soil areas should be reseeded with <u>native species suitable to the local habitat</u> immediately upon project completion.

The Minnesota Biological Survey (MBS) considered the area surrounding the proposed project for a Site of Biodiversity Significance. **Snake Creek Bluffs North** was determined to be *Below* the minimum biodiversity threshold for statewide significance. This area, however, may have conservation value at the local level as habitat for native plants and animals, corridors for animal movements, buffers surrounding higher quality natural areas, or as areas with high potential for restoration of native habitat. **As such, indirect impacts from surface runoff or the spread of invasive species should be considered during project design and implementation.**

MBS Sites of Biodiversity Significance and DNR Native Plant Communities can be viewed using the Explore page in Minnesota Conservation Explorer or their GIS shapefiles can be downloaded from the MN Geospatial Commons. Please contact the NH Review Team if you need assistance accessing the data. Reference the MBS Site Plant Community websites for information on interpreting the data. To receive a list of MBS Sites of Biodiversity Significance and DNR Native Plant Communities in the vicinity of your project, create a Conservation Planning Report using the Explore Tab in Minnesota Conservation Explorer. I have attached a Conservation Planning Report to this review.

• If the Wetland Conservation Act (WCA) is applicable to this project, please note that wetlands within rare (S1-S3) Native Plant Communities (NPC) may qualify as "Rare Natural Communities" under this Act. Minnesota Rules, part 8420.0515, subpart 3 states that a wetland replacement plan for activities that modify a rare natural community must be denied if the local government unit determines the proposed activities will permanently adversely affect the natural community. If the proposed project includes a wetland replacement plan under WCA, please contact your DNR Regional Ecologist for further evaluation. For technical guidance on Rare Natural Communities, please visit WCA Program Guidance and Information.

State-listed Species

• <u>Blanding's turtles</u> (*Emydoidea blandingii*) and <u>wood turtles</u> (*Glyptemys insculpta*), both statelisted threatened species, have been documented in the vicinity of the proposed project and may be encountered on site. Both species are semi-aquatic, spending time both on land and in water. Any added fatality can be detrimental to these populations of turtles, as these turtles have a low reproduction rate that depends upon a high survival rate to maintain population levels.

This project has the potential to impact these rare turtles through direct fatalities and habitat disturbance/destruction due to excavation, fill, and other construction activities associated with the project. Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, part 6212.1800 to 6212.2300 and 6134) prohibit the take of threatened or endangered species without a permit. As such, the following avoidance measures are required:

- Avoid wetland and aquatic impacts during hibernation season, between September 15th and April 15th, if the area is suitable for hibernation.
- Erosion and sediment control should be limited to <u>wildlife friendly erosion control</u> to avoid the inadvertent take of Blanding's turtles.
- Hydro-mulch products should not contain any materials with synthetic (plastic) fiber additives, as the fibers can re-suspend and flow into waterbodies.
- Construction areas, especially aquatic or wetland areas, should be thoroughly checked for turtles before the use of heavy equipment or any ground disturbance.
- Check any holes that have been left unattended for prolonged periods for turtles before being filled.
- The <u>Blanding's turtle flyer</u> must be given to all contractors working in the area. Illegal
 collection is a concern with wood turtles; therefore, please do not post any signs that
 would bring attention to the presence of wood turtles.
- Monitor for turtles during construction. Report any sightings to <u>Reports.NHIS@state.mn.us</u>; please include date, observer, location, and photograph of the turtle.

- If turtles are in imminent danger, they must be moved by hand out of harm's way, otherwise they are to be left undisturbed. Please see <u>Helping Turtles Across the Road</u> for guidelines on how to move turtles safely out of danger.
- Please contact <u>Review.NHIS@state.mn.us</u> with subject line <u>Avoidance for MCE-2023-00935</u> to confirm if the described avoidance measures will be implemented.

For additional information, see the <u>Blanding's turtle fact sheet</u>, which describes the habitat use and life history of Blanding's turtle. The fact sheet also provides two lists of recommendations for avoiding and minimizing impacts to turtles. **Please refer to both lists of recommendations and apply those that are relevant to your project.**

Timber rattlesnake (Crotalus horridus), a state-listed threatened species, have been reported from the vicinity of the proposed project and may be encountered on site. In Minnesota, the ideal habitat for this species is forested bluffs, south-facing rock outcrops, and bluff prairies, particularly in the Mississippi River Valley. Nearby forests, prairies, and agricultural lands are used as summer feeding grounds. Two necessary habitat components are open areas for thermoregulation, and dens for overwintering. The dens are often located on steep, south- or west-facing hillsides with rock outcroppings and ledges. Timber rattlesnakes emerge from their dens in late April to early May and return to them in late September to early October. In the spring and fall, timber rattlesnakes are active during the day; while during the hottest months of summer, they are mostly active at night. Additionally, gophersnake (Pituophis catenifer), North American racer (Coluber constrictor), and plains hog-nosed snake (Heterodon nasicus), all species of special concern, have been documented in the vicinity of the proposed project.

Timber rattlesnake mortality in Minnesota is most commonly caused by poaching, vehicle collisions, and habitat destruction. The loss of a single adult, especially a female, can impact the population significantly. Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, part 6212.1800 to 6212.2300 and 6134) prohibit the take of threatened or endangered species without a permit. As such the following avoidance measures are **required**:

- Crews working in the area should be advised that if they encounter any snakes, the snakes should not be disturbed.
- Erosion and sediment control should be limited to <u>wildlife friendly erosion control</u> to avoid the inadvertent take of timber rattlesnakes.
- Please contact <u>Review.NHIS@state.mn.us</u> with subject line <u>Avoidance for MCE-2023-</u> 00935 to confirm if the described avoidance measures will be implemented.

Timber rattlesnake precautions may include, but are not limited to, the following recommendations:

 Wear appropriate personal protection equipment, such as thick pants, boots, and leather gloves.

- Care should be taken around stockpiled materials as snakes may be using these materials as shelter.
- Report any sightings to <u>Reports.NHIS@state.mn.us</u>; please include date, observer, location, and photograph of the timber rattlesnake.
- Seaside three-awn (Aristida tuberculosa), clasping milkweed (Asclepias amplexicaulis), beach heather (Hudsonia tomentosa), and Davis' sedge (Carex davisii), all state-listed threatened plants, have been documented in the project vicinity. Habitat for seaside three-awn, clasping milkweed, and beach Heather include savanna and upland prairie. Habitat for Davis' sedge includes floodplain forest. All potential habitats must be avoided. If this is not feasible, a qualified surveyor will need to determine if suitable habitat exists within the activity impact area and, if so, conduct a survey prior to any project activities. Take of state-listed threatened and endangered plant species is exempt only within previously disturbed road rights-of-ways (ROW).

Minnesota's Endangered Species Statute (Minnesota Statutes, section 84.0895) and associated Rules (Minnesota Rules, part 6212.1800 to 6212.2300 and 6134) prohibit the take of threatened or endangered species without a permit. Surveys must be conducted by a qualified surveyor and follow the standards contained in the Rare Plant Guidance. Survey results should be sent to Reports.NHIS@state.mn.us with subject line MCE-2023-00935. Visit the Natural Heritage Review page for a list of certified surveyors and more information on this process. Project planning should take into account that any botanical survey needs to be conducted during the appropriate time of the year, which may be limited. Please contact Review.NHIS@state.mn.us with subject line Avoidance measures will be implemented.

- Many rare aquatic species, including state-listed endangered and threatened species, have been
 documented in the Mississippi River in the vicinity of the proposed project. These species are
 vulnerable to deterioration in water quality, particularly increased siltation. Therefore, it is
 important that stringent erosion prevention and sediment control practices are maintained
 throughout the duration of the project to prevent adverse debris and material from entering
 the Mississippi River, Zumbro River, and the adjacent floodplain forest.
- Bell's vireo (Vireo bellii) and lark sparrow (Chondestes grammacus), state-listed bird species of special concern, have been documented in the vicinity of the project. If feasible, avoid initial disturbance to grassland areas and tree/shrub removal from May 15th through August 15th to avoid disturbance of nesting birds.
- The Natural Heritage Information System (NHIS) tracks bat roost trees and hibernacula plus some
 acoustic data, but this information is not exhaustive. Even if there are no bat records listed
 nearby, all seven of Minnesota's bats, including the federally endangered northern long-eared
 bat (Myotis septentrionalis), can be found throughout Minnesota. During the active season

(approximately April-November) bats roost underneath bark, in cavities, or in crevices of both live and dead trees. Tree removal can negatively impact bats by destroying roosting habitat, especially during the pup rearing season when females are forming maternity roosting colonies and the pups cannot yet fly. To minimize these impacts, the DNR recommends that tree removal be avoided from June 1 through August 15.

 Please visit the <u>DNR Rare Species Guide</u> for more information on the habitat use of these species and recommended measures to avoid or minimize impacts.

Federally Protected Species

The area of interest overlaps with a U.S Fish and Wildlife Service (USFWS) Rusty Patched Bumble Bee High Potential Zone. The rusty patched bumble bee (Bombus affinis) is federally listed as endangered and is likely to be present in suitable habitat within High Potential Zones. From April through October this species uses underground nests in upland grasslands, shrublands, and forest edges, and forages where nectar and pollen are available. From October through April the species overwinters under tree litter in upland forests and woodlands. The rusty patched bumble bee may be impacted by a variety of land management activities including, but not limited to, prescribed fire, tree-removal, haying, grazing, herbicide use, pesticide use, land-clearing, soil disturbance or compaction, or use of non-native bees. If applicable, the DNR recommends reseeding disturbed soils with native species of grasses and forbs using BWSR Seed Mixes or MnDOT Seed Mixes.

To ensure compliance with federal law, please conduct a federal regulatory review using the U.S. Fish and Wildlife Service's online Information for Planning and Consultation (IPaC) tool. Please note that all projects, regardless of whether there is a federal nexus, are subject to federal take prohibitions. The IPaC review will determine if prohibited take is likely to occur and, if not, will generate an automated letter. The USFWS RPBB guidance provides guidance on avoiding impacts to rusty patched bumble bee and a key for determining if actions are likely to affect the species; the determination key can be found in the appendix.

Environmental Review and Permitting

 Please include a copy of this letter and the MCE-generated Final Project Report in any state or local license or permit application. Please note that measures to avoid or minimize disturbance to the above rare features may be included as restrictions or conditions in any required permits or licenses.

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.

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 and project description provided with the request. If project details change or the project has not occurred within one year, please resubmit the project for review within one year of initiating project activities.

The Natural Heritage Review does not constitute project approval by the Department of Natural Resources. Instead, it identifies issues regarding known occurrences of rare features and potential impacts to these rare features. Visit the <u>Natural Heritage Review website</u> for additional information regarding this process, survey guidance, and other related information. For information on the environmental review process or other natural resource concerns, you may contact your <u>DNR Regional Environmental Assessment Ecologist</u>.

Thank you for consulting us on this matter and for your interest in preserving Minnesota's rare natural resources.

Sincerely,

Molly Barrett

Natural Heritage Review Specialist

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Molly Barrett

Cc: Melissa Collins, Regional Environmental Assessment Ecologist, Region 3 (Central)

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Cc: Keylor Andrews, Calcareous Fen Program Coordinator

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Cc: Cynthia Warzecha, Energy Projects Review