



US Army Corps
of Engineers
St Paul District

APPLICANT:

Minnesota Department
of Transportation
(MnDOT), District 1;
c/o Michael Kalnbach

Public Notice

ISSUED: February 22, 2016

EXPIRES: March 22, 2016

REFER TO: MVP-2013-04723-SEW

SECTION: 404 - Clean Water Act

1. APPLICATION FOR PERMIT TO discharge dredged and fill material into approximately 8.44 acre of wetlands adjacent to a tributary to the Swan River to facilitate the expansion of approximately 1.5 miles of Trunk Highway (TH) 169 from a two-lane highway to a four-lane divided highway, located between the intersection of TH 169 and 2nd Street east of the city of Bovey to about 0.3 mile east of the intersection of TH 169 and County State Aid Highway (CSAH) 7 near the city of Taconite.

2. SPECIFIC INFORMATION.

APPLICANT'S ADDRESS: 1123 Mesaba Avenue,
Duluth, MN 55811

AGENT: SEH, c/o Allyz Kramer or Natalie White AGENT'S ADDRESS: 418 West Superior St.,
Suite 200, Duluth, MN 55802

PROJECT LOCATION: The project site is located in Sections 22, 23, and 27, T. 56N., R. 24W., Itasca County, Minnesota. The approximate coordinates are 47.313290N., -93.367905.

DESCRIPTION OF PROJECT: MnDOT proposes to discharge dredged and fill material into approximately 8.44 acres of wetlands, including 8.38 acres of permanent impacts and 0.06 acre of temporary impacts, to facilitate the expansion of 1.5 miles of TH 169 from two lanes to four lanes between the communities of Bovey and Taconite in Itasca County. In the project area, TH 169 is a 55-mph, 24-foot wide principal arterial roadway with two travel lanes. On the south side of the project limits, TH 169 is a four-lane, 65-mph divided roadway, and on the north side of the project limits, TH 169 is a two-lane, 55-mph roadway. TH 169 is the major highway connecting the Mesabi Iron Range communities. It provides a commuter route to employment areas, serves seasonal recreational traffic, and is a major supply route for forest products and other industries. The purpose of the project is to improve capacity on this stretch of TH 169. The current level of service (LOS) on this segment of TH 169 is classified by MnDOT as "D" on a scale of A through F. Level A is described as "light traffic, free flow, extremely high level of motorist comfort and convenience", while Level F is described as "forced or breakdown flow, with operations characterized by extremely unstable stop-and-go waves". Without the proposed expansion, MnDOT predicts that by 2025, this section of roadway would have a LOS of F. MnDOT policy is to provide at least LOS of B on multi-lane rural highways.

The proposed expansion would occur on the existing TH 169 alignment. The typical section for the proposed four-lane highway would include two 12-foot travel lanes in each direction, four-foot wide inside shoulders, 8-foot wide outside shoulders, 1v:4h inslopes, 74-foot centerline spacing, and a ditched grass median. The project also includes the realignment of the CSAH 15 intersection approximately 150 feet south of its existing location. The realigned CSAH 15 would line up with an

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existing local road on the east side of TH 169 to form a 90-degree, four-way intersection with TH 169. The realigned segment of CSAH 15, which is a two-lane roadway, would be designed to minimum county state aid design standards, including two 12-foot wide travel lanes, four-foot shoulders, and 1v:4h sideslopes in the clear zone. In this location, a parking area for the Mesabi Trail would be constructed on the old alignment of CSAH 15 (avoiding wetland impacts), and Mesabi trail connections would also be made. On the north end of the project, CSAH 7 would be slightly realigned to form a 90-degree intersection with TH 169. CSAH 7 would be constructed to the same minimum county state aid design standards as CSAH 15, with the exception of 1v:2h sideslopes that would be used in areas where steep slopes are already in place. Additionally, a gravel pit access road ("Schwartz Road") would be realigned approximately 200 feet to the northeast of its existing intersection with TH 169, forming a four-way 90-degree intersection with CSAH 7. The portion of Schwartz Road in the project area would be reconstructed to be 28 feet wide. Finally, the project would include culvert installations, repairs, and replacements as necessary, including the replacement of Bridge 91145. Bridge 91145 is a 134-foot long, 11-foot diameter steel pipe located on TH 169 just east of CSAH 7 at a flow-through wetland; it would be replaced with a 12'x10', 212-foot long reinforced concrete box culvert with 21.3-foot end sections and inverts of 1309.40 feet (Bridge 31X09). MnDOT would also replace an existing box culvert which passes the same flow-through wetland under CSAH 7 with a new box culvert (Bridge 31J24), which would be a 108-foot long, 12'x10' reinforced concrete box culvert with 21.3-foot end sections and inverts of 1309.40 feet. Both culverts would be embedded one foot to provide for natural channel bottoms.

PROJECT BACKGROUND: This project is the second and final portion of the second phase of a five-phase project to construct an 18-mile, four-lane expressway between Grand Rapids and Pengilly, Minnesota. An Environmental Impact Statement (EIS) for the 18-mile project was completed in 1989 by MnDOT and Federal Highway Administration (FHWA). The first phase of the project, from Grand Rapids to Coleraine, was completed in 1994. The first portion of the second phase of the project, beginning in Coleraine and ending just east of 2nd Street (approximately 2.7 miles), was completed in 2006 and 2007. This segment of the project involved realigning approximately 1.9 miles of TH 169 around Bovey. MnDOT and FHWA completed an Environmental Assessment (EA) for the entire four miles of the second phase of the expressway in 2003, which included the proposed project. MnDOT also completed an Environmental Reassessment for the proposed project in July 2015.

QUANTITY, TYPE, AND AREA OF FILL: The project would result in approximately 7.58 acres of permanent wetland fill for the expansion of TH 169 and realignment of CSAH 15 and CSAH 7, and approximately 0.20 acre of indirect impacts at Wetland 8 to facilitate the replacement of the culverts at the CSAH 7 intersection. Approximately 0.01 acre of Wetland 9 would be affected by temporary fill for up to one year. A table of the proposed aquatic resource impacts is attached ("2013-04723-SEW, Table 1 of 1"), while the locations of each proposed impact are shown on the attached figures ("2013-04723-SEW, Figures 1 through 8 of 8").

VEGETATION IN AFFECTED AREA: The project would permanently fill the following wetland types: 0.73 acre of floodplain forest/shallow open water complex, 0.001 acre of wet meadow, 1.87 acres of shallow marsh, 0.03 acre of deep marsh, 0.47 acre of shallow open water, 1.39 acres of shrub-carr, 0.47 acre of hardwood swamp/shallow open water complex, 1.20 acres of shallow open water/deep marsh complex, 0.71 acre of shrub-carr/deep marsh complex, 0.71 acre of shallow marsh wetlands in roadside ditches, and 0.007 acre of wet meadow wetland in a roadside ditch. The project would result in permanent excavation ("cut") in the following wetland types: 0.24 acre of shrub-carr,

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0.08 acre of shallow open water, 0.02 acre of deep marsh, 0.005 acre of wet meadow, 0.08 acre of shallow marsh, 0.10 acre of shrub-carr/deep marsh complex, 0.06 acre of shallow marsh wetland in a roadside ditch, and 0.01 acre of wet meadow wetland in a roadside ditch. The project would also result in indirect impacts to 0.2 acre of a shallow open water wetland, temporary fill for up to 365 days in approximately 0.01 acre of a deep marsh wetland, and temporary excavation for up to 365 days in approximately 0.05 acre of the same deep marsh wetland; these impacts would occur to facilitate the culvert replacements at the CSAH 7 and TH 169, as described above. Finally, the project would result in clearing a total of approximately 10.3 acres of forested and shrub land (which includes the wooded wetland impact areas as well as upland areas). The proposed clearing work is projected to occur in late July 2016.

SOURCE OF FILL MATERIAL: MnDOT indicates that the source(s) of the fill material required to construct the new lanes would be determined by their selected contractor. However, MnDOT would require that the contractor use clean granular soils for embankment, and salvaged topsoil from the project area for final slope dressing.

SURROUNDING LAND USE: The project area is mostly rural, with the community of Taconite located about a quarter mile northwest of TH 169 and the community of Bovey located about 1.3 miles southwest of the project area. The community of Holman lies just east of the intersection with CSAH 15. Land use consists of mining areas northwest and southwest of the project area, railroad tracks west of the project area, and forested areas, wetlands, and lakes throughout, including Holman Lake to the east of the project area. The Mesabi Trail, a multi-use, 10-foot wide recreational trail, is located on the west side of the project area.

DESCRIPTION OF STRUCTURE: See the above "Project Details" for a description of the proposed four-lane road cross-section and the proposed box culverts that would affect Wetlands 5, 8, and 9.

DESCRIPTION OF DREDGING OR EXCAVATION: The project would result in approximately 0.60 acre of permanent excavation ("cut") impacts in wetlands to facilitate the expansion of TH 169, the realignment of the CSAH 15 intersection, and the replacement of the culverts in Wetlands 8 and 9. The excavation impacts would occur to reconstruct roadside ditches, or in some cases, construct new roadside ditches, and to excavate the existing culverts. See "Vegetation in Affected Area" for information on the wetland types that would be impacted.

THE FOLLOWING POTENTIALLY TOXIC MATERIALS COULD BE USED AT THE PROJECT SITE: Construction of the project may involve potentially toxic materials from the use of equipment, such as fuels, lubricants, and solvents. Specific types of products, quantities, and specific applications of these materials were not provided with the application.

THE FOLLOWING PRECAUTIONS TO PROTECT WATER QUALITY HAVE BEEN DESCRIBED BY THE APPLICANT: MnDOT states that treatment of stormwater runoff from the roadway surface would be provided by infiltration within the proposed grass median. No stormwater management features would be constructed in aquatic resources. MnDOT indicates that silt fence would be utilized on the construction limits of the project, where appropriate, to control stormwater and erosion during construction. MnDOT would also use other erosion control best management practices, including seeding, wood fiber sediment control logs in roadside ditches, and flotation silt curtain on the project limits in Wetlands 5, 8, and 9 where the replacement of the culvert under CSAH

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7 and Bridge 91145 would occur. The project would require a Stormwater Pollution Prevention Plan (SWPPP) to control erosion from the project area and a NPDES/SDS construction stormwater permit from the Minnesota Pollution Control Agency.

MITIGATION: The applicant proposes to provide compensatory mitigation for unavoidable permanent and adverse wetland impacts by debiting wetland credits from the Minnesota Wetland Bank via the Cooperative Wetland Replacement Program administered by the Minnesota Board of Water and Soil Resources. Specifically, the applicant proposes to debit MnDOT-owned wetland credits from the closest Corps-approved bank within the same bank serve area (BSA) as the impacts, which is BSA 5. The project is located in major watershed 9 (Mississippi River-Grand Rapids watershed). Final mitigation requirements will be determined by the Corps following evaluation of the proposal. It is anticipated that wetland credits will be required from BSA 5.

3. REPLIES/COMMENTS.

Interested parties are invited to submit to this office written facts, arguments, or objections within 30 days of the date of this notice. These statements should bear upon the suitability of the location and the adequacy of the project and should, if appropriate, suggest any changes believed to be desirable. Comments received may be forwarded to the applicant.

Replies may be addressed to Regulatory Branch, St. Paul District, Corps of Engineers, 180 Fifth Street East, Suite 700, Saint Paul, MN 55101-1678.

Or, IF YOU HAVE QUESTIONS ABOUT THE PROJECT, call Sarah Wingert at the St. Paul office of the Corps, telephone number (651) 290-5358.

To receive Public Notices by e-mail, go to: http://mvp-extstp.mvp.usace.army.mil/list_server/ and add your information in the New Registration Box.

4. FEDERALLY-LISTED THREATENED OR ENDANGERED WILDLIFE OR PLANTS OR THEIR CRITICAL HABITAT.

None were identified by the applicant or are known to exist in the permit area. However, Itasca County is within the known or historic range of the following Federally-listed threatened (T) and endangered (E) species:

<u>Species</u>	<u>Habitat</u>
Canada Lynx (T)	Northern Forest
Gray Wolf (T)	Northern Forest
Northern Long-Eared Bat (T)	St. Croix River

This application is being coordinated with the U.S. Fish and Wildlife Service. Any comments it may have concerning Federally-listed threatened or endangered wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

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5. JURISDICTION.

This application is being reviewed in accordance with current practices for documenting Corps jurisdiction under Section(s) 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act.

We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are subject to Corps of Engineers jurisdiction under Section(s) 9 & 10 of the Rivers and Harbors Act of 1899 and/or Section 404 of the Clean Water Act. If an approved jurisdictional determination is completed as part of the review process for this application, a copy will be posted on the St. Paul District web page at the following link:

<http://www.mvp.usace.army.mil/Missions/Regulatory.aspx>.

THE APPLICANT HAS STATED THAT THE FOLLOWING STATE, COUNTY, AND/OR LOCAL PERMITS HAVE BEEN APPLIED FOR/ISSUED: 1) A Minnesota Department of Natural Resources Public Waters Work Permit for the box culvert under CSAH 7 and the realignment of the tributary/flow-through wetland in that location (issued); and 2) a Minnesota Wetland Conservation Act Wetland Replacement Plan (pending).

6. STATE SECTION 401 WATER QUALITY CERTIFICATION.

Valid Section 404 permits cannot be issued for any activity unless state water quality certification for the activity is granted or waived pursuant to Section 401 of the Clean Water Act. The state Section 401 authority in Minnesota is the Minnesota Pollution Control Agency (MPCA). The St. Paul District has provided this public notice and a copy of the applicant's Section 404 permit application form to the MPCA. If MPCA needs any additional information in order for the Section 401 application to be considered complete by MPCA, the MPCA has indicated that it will request such information from the applicant. It is the permit applicant's responsibility to ensure that the MPCA has received a valid, complete application for state Section 401 certification and to obtain a final Section 401 action from the MPCA.

The MPCA has indicated that this public notice serves as its public notice of the application for Section 401 water quality certification under Minnesota Rules Part 7001. The MPCA has also indicated that the Section 401 process shall begin to commence upon the issuance date of this public notice unless the MPCA notifies both the St. Paul District and the permit applicant to the contrary, in writing, before the expiration date of this public notice.

Any comments relative to MPCA's Section 401 Certification for the activity proposed in this public notice may be sent to:

Minnesota Pollution Control Agency, Resource Management and Assistance Division,
Attention: 401 Certification, 520 Lafayette Road North, St. Paul, Minnesota 55155-4194.

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7. HISTORICAL/ARCHAEOLOGICAL.

This public notice is being sent to the National Park Service and the State Archaeologist for their comments. The Corps has reviewed information on known cultural resources and/or historic properties within and adjacent to the project area. The Corps has also considered the potential effects of the project on any properties that have yet to be identified. The latest version of the National Register of Historic Places has been consulted and no listed properties (known to be eligible for inclusion, or included in the Register) are located in the project area. The area has previously been surveyed for archaeological and architecture/historic structures. MnDOT's 2003 Environmental Assessment for this project indicates that no archaeological resources were identified during the survey efforts. MnDOT's Cultural Resource Unit determined the first portion of the second phase of the TH 169 expressway between Grand Rapids and Pengilly, which has already been constructed, would adversely affect the Western Mesabi Iron Range Mining Landscape District. MnDOT entered into a Memorandum of Agreement with the State Historic Preservation Office, and the mitigation for the adverse effects has been completed. MnDOT's July 2015 Environmental Reassessment of this project, which is the second and final portion of phase two of the TH 169 expressway between Grand Rapids and Pengilly, states that the majority of the project area has been disturbed by mining activities and construction of road and railways. Also, Bridge 91145, which was built in 1956, was determined to be ineligible for the National Register of Historic Places. In April 2014, MnDOT's Cultural Resource Unit determined that this project has no potential to affect properties listed in the State or the National Registers of Historic Places or to affect known or suspected archaeological sites.

8. PUBLIC HEARING REQUESTS.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, in detail, the reasons for holding a public hearing. A request may be denied if substantive reasons for holding a hearing are not provided or if there is otherwise no valid interest to be served.

9. PUBLIC INTEREST REVIEW.

The decision whether to issue a permit will be based on an evaluation of the probable impact, including cumulative impacts, of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered, including the cumulative effects. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. Environmental and other documents will be available for review in the St. Paul District Office.

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The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition, or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

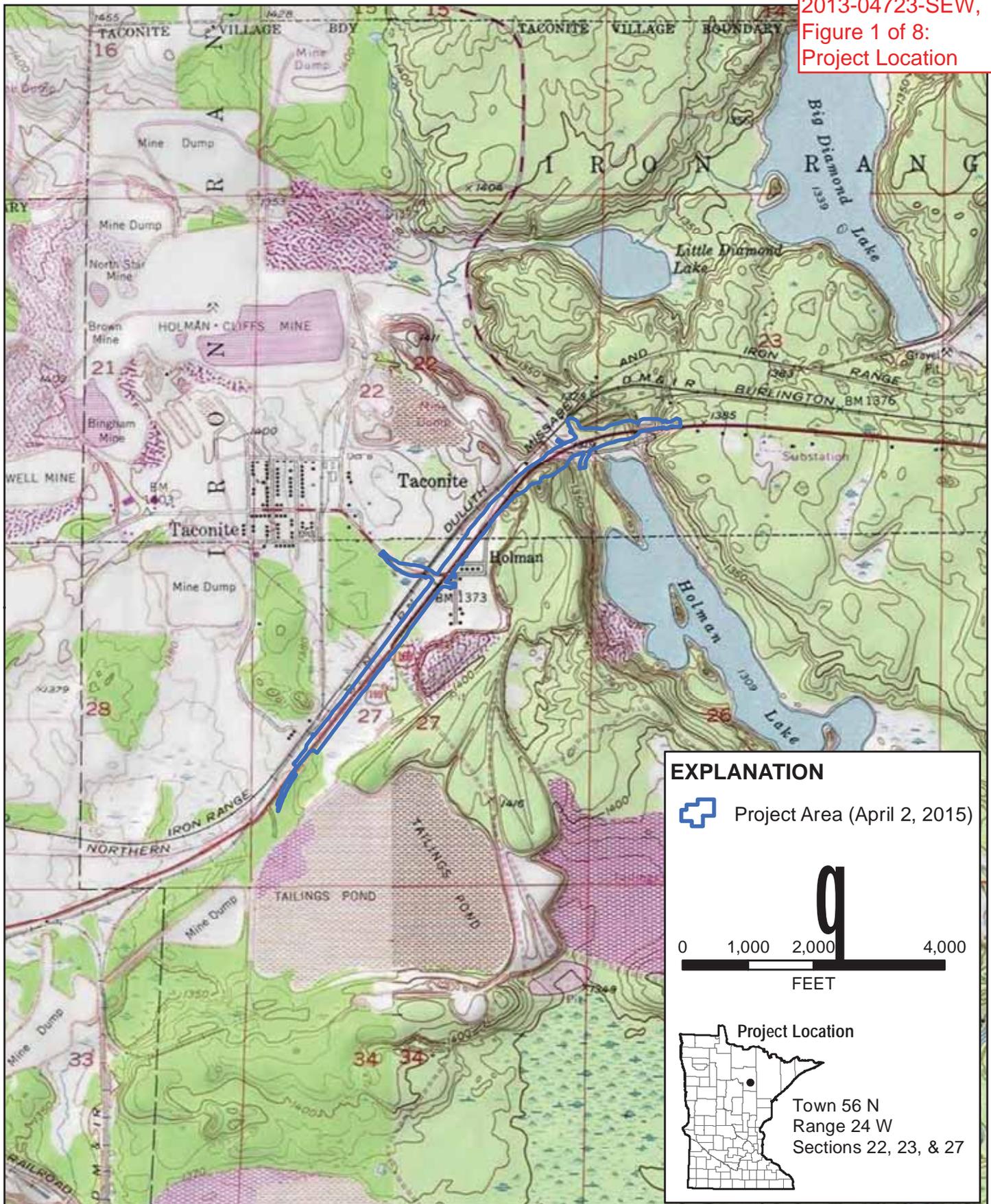
Chad Konickson
Chief, Technical Services Section

Enclosures

2013-04723-SEW, Table 1 of 1: Proposed Aquatic Resource Impacts

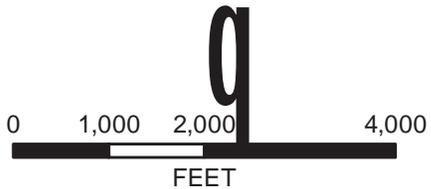
Aquatic Resource ID (as noted on overhead view)	Aquatic Resource Type (wetland, lake, tributary etc.)	Type of Impact (fill, excavate, drain, or remove vegetation)	Duration of Impact Permanent (P) or Temporary (T)	Size of Impact (acre)	Existing Plant Community Type(s) in Impact Area
Wetland 1	Wetland	Fill	P	1.20	Shallow Open Water/Deep Marsh
Wetland 2	Wetland	Cut	P	0.02	Shrub-Carr
Wetland 2	Wetland	Cut	P	0.06	Shallow Marsh (Wetland Ditch)
Wetland 2	Wetland	Fill	P	0.03	Shrub-Carr
Wetland 2	Wetland	Fill	P	0.4	Shallow Marsh (Wetland Ditch)
Wetland 3	Wetland	Cut	P	0.01	Wet Meadow (Wetland Ditch)
Wetland 3	Wetland	Fill	P	0.0007 (32 sq. ft.)	Wet Meadow (Wetland Ditch)
Wetland 5	Wetland / tributary	Fill	P	0.73 (127 linear ft)	Floodplain Forest/Shallow Open Water
Wetland 6	Wetland	Fill	P	0.47	Hardwood Swamp/Shallow Open Water
Wetland 7	Wetland	Fill	P	0.47	Shallow Open Water
Wetland 8	Wetland / tributary	Cut	P	0.08 (67 linear ft.)	Shallow Open Water
Wetland 8	Wetland / tributary	Indirect	P	0.20 (225 linear ft)	Shallow Open Water
Wetland 9	Wetland / tributary	Cut	P	0.02	Deep Marsh
Wetland 9	Wetland / tributary	Cut	T (365 days)	0.05 (33 linear ft.)	Deep Marsh
Wetland 9	Wetland / tributary	Fill	P	0.03	Deep Marsh
Wetland 9	Wetland / tributary	Fill	T (365 days)	0.01	Deep Marsh
Wetland 10	Wetland	Cut	P	0.10	Shrub-Carr/Deep Marsh
Wetland 10	Wetland	Fill	P	0.71	Shrub-Carr/Deep Marsh
Wetland 11	Wetland	Cut	P	0.005 (206 sq. ft.)	Wet Meadow
Wetland 11	Wetland	Fill	P	0.001 (40 sq. ft.)	Wet Meadow
Wetland 12	Wetland	Fill	P	0.01	Shrub-Carr
Wetland 13	Wetland	Cut	P	0.04	Shrub-Carr
Wetland 13	Wetland	Fill	P	0.47	Shrub-Carr
Wetland 13	Wetland	Fill	P	0.18	Shallow Marsh
Wetland 13	Wetland	Fill	P	0.31	Shallow Marsh (Wetland Ditch)
Wetland 16	Wetland	Cut	P	0.08	Shallow Marsh
Wetland 16	Wetland	Fill	P	1.69	Shallow Marsh
Wetland 17	Wetland	Cut	P	0.18	Shrub-Carr
Wetland 17	Wetland	Fill	P	0.88	Shrub-Carr
Proposed Permanent Wetland Fill Impacts: 7.58 acres					
Proposed Permanent Wetland Cut Impacts: 0.60 acre					
Proposed Permanent Indirect Impacts: 0.20 acre					
Proposed Temporary Wetland Fill Impacts: 0.01 acre					
Proposed Temporary Wetland Cut Impacts: 0.05 acre					
TOTAL IMPACTS: 8.44 acres					

2013-04723-SEW,
Figure 1 of 8:
Project Location

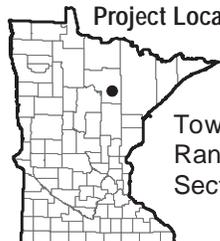


EXPLANATION

 Project Area (April 2, 2015)



Project Location

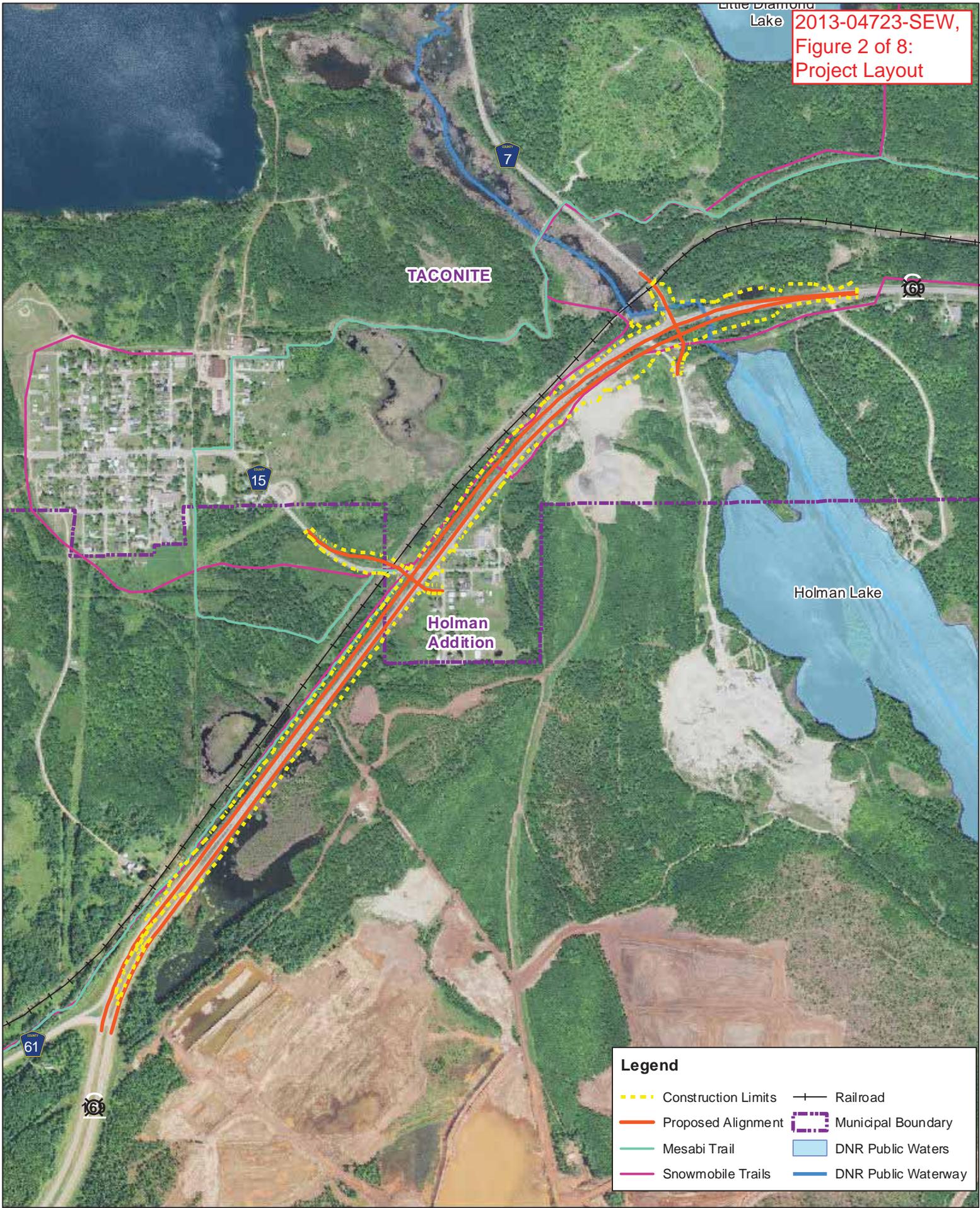


Town 56 N
Range 24 W
Sections 22, 23, & 27

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	<p>418 W. SUPERIOR ST., SUITE 200 DULUTH, MN 55802-1512 PHONE: (218) 279-3000 FAX: (888) 908.8166 TF: (888) 722.0547 www.sehinc.com</p>	<p>Project: MNT01 125835 Print Date: 4/3/2015</p> <p>Map by: btolcser Projection: NAD 83 HARN Adj MN Itasca South (feet) Source: USGS 24k Topo</p>	<p>USGS Topographic Map TH 169 — Bovey to Taconite Wetlands Itasca County, Minnesota</p>	<p>Figure 2</p>
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This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.



Legend

Construction Limits	Railroad
Proposed Alignment	Municipal Boundary
Mesabi Trail	DNR Public Waters
Snowmobile Trails	DNR Public Waterway

0 500 1,000
Feet

Figure 1. Project Location
TH 169 Environmental Reassessment

**2013-04723-SEW,
Figure 3 of 8:
Aquatic Resource
Impact Locations**

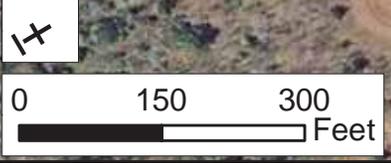
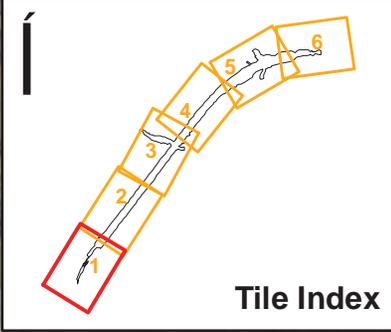
Legend

- Construction Limits (4/02/2015)
- Wetland Delineation
- Cut/Fill Line

Wetland Impacts (04/02/2015)

Eggers and Reed Classification

- Shallow Marsh
- Deep Marsh
- Shallow Open Water



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DULUTH, MN 55802-1512
PHONE: (218) 279.3000
FAX: (888) 908.8166
TF: (888) 722.0547
www.sehinc.com

Project: MNT01 125835
Print Date: 4/9/2015

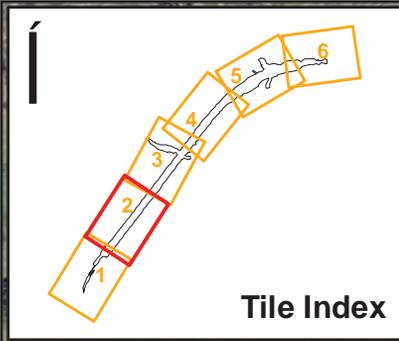
Map by: btolcser
Projection: Itasca Co. South (ft)
Source: MNDNR, MNDOT, SEHinc
Background: 2013 MNDNR

Wetland Impacts By Community Type
TH 169 — BOVEY TO TACONITE
Itasca County, Minnesota

**Figure
3-1**

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2013-04723-SEW,
Figure 4 of 8:
Aquatic Resource
Impact Locations



Legend

- Construction Limits (4/02/2015)
- Wetland Delineation
- Cut/Fill Line

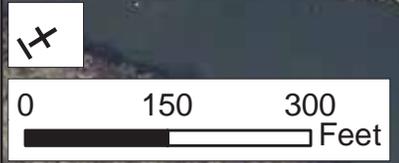
Wetland Impacts (04/02/2015)

Eggers and Reed Classification

- Shallow Marsh
- Shallow Marsh / Wet Ditch
- Deep Marsh
- Shallow Open Water



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Project: MNT01 125835
Print Date: 4/9/2015

Map by: btolcser
Projection: Itasca Co. South (ft)
Source: MNDNR, MNDOT, SEHinc
Background: 2013 MNDNR

Wetland Impacts By Community Type
TH 169 — BOVEY TO TACONITE
Itasca County, Minnesota

Figure
3-2

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2013-04723-SEW,
Figure 6 of 8:
Aquatic Resource
Impact Locations

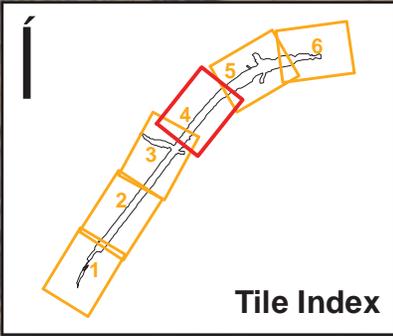
Legend

- Construction Limits (4/02/2015)
- Wetland Delineation
- Cut/Fill Line

Wetland Impacts (04/02/2015)

Eggers and Reed Classification

- Fresh (wet) Meadow / Wet Ditch
- Deep Marsh
- Shrub-Carr



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Project: MNT01 125835
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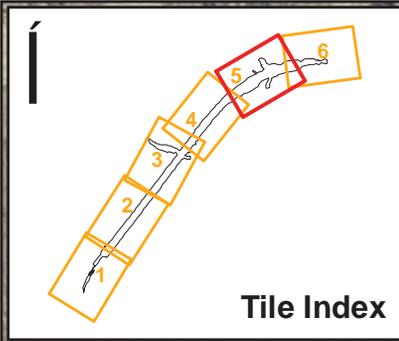
Map by: btolcser
Projection: Itasca Co. South (ft)
Source: MNDNR, MNDOT, SEHinc
Background: 2013 MNDNR

Wetland Impacts By Community Type
TH 169 — BOVEY TO TACONITE
Itasca County, Minnesota

Figure
3-4

This map is neither a legally recorded map nor a survey map and is not intended to be used as one. This map is a compilation of records, information, and data gathered from various sources listed on this map and is to be used for reference purposes only. SEH does not warrant that the Geographic Information System (GIS) Data used to prepare this map are error free, and SEH does not represent that the GIS Data can be used for navigational, tracking, or any other purpose requiring exacting measurement of distance or direction or precision in the depiction of geographic features. The user of this map acknowledges that SEH shall not be liable for any damages which arise out of the user's access or use of data provided.

2013-04723-SEW,
Figure 7 of 8:
Aquatic Resource
Impact Locations



Legend

- Construction Limits (4/02/2015)
- Wetland Delineation
- Cut/Fill Line
- Temp/Perm Impact Line

Wetland Impacts (04/02/2015)
Eggers and Reed Classification

- Floodplain Forest
- Deep Marsh
- Shallow Open Water
- Hardwood Swamp



Path: S:\KOD\Mnt01\125835\env-stly-regis\Wetlands\GIS\PermitMaps\Fig03-X-WetlandImpacts_Update.mxd

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Wetland Impacts By Community Type
TH 169 — BOVEY TO TACONITE
Itasca County, Minnesota

Figure 3-5

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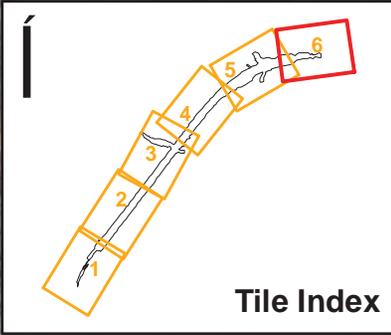
2013-04723-SEW,
Figure 8 of 8:
Aquatic Resource
Impact Locations

Legend

-  Construction Limits (4/02/2015)
-  Wetland Delineation

**Wetland Impacts (04/02/2015)
Eggers and Reed Classification**

-  Shallow Open Water
-  Hardwood Swamp



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Map by: btolcser
Projection: Itasca Co. South (ft)
Source: MNDNR, MNDOT, SEHinc
Background: 2013 MNDNR

Wetland Impacts By Community Type
TH 169 — BOVEY TO TACONITE
Itasca County, Minnesota

Figure
3-6

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