

Information for File # 2012-05699-JCD

Applicant: Sherburne County Highway Department – Dan Knappek

Corps Contact: Jessie C. Diaz

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Primary County: Sherburne

Section: 9

Township: 35 North

Range: 29 West

Information Complete On: February 12, 2013

Posting Expires On: February 22, 2013

Authorization Type: LOP-05-MN

This application is being reviewed in accordance with the practices for documenting Corps jurisdiction under Sections 9 & 10 of the Rivers and Harbor Act of 1899 and Section 404 of the Clean Water Act identified in Regulatory Guidance Letter 07-01. We have made a preliminary determination that the aquatic resources that would be impacted by the proposed project are regulated by the Corps of Engineers under Section 404 of the Clean Water Act. Our jurisdictional review and final jurisdictional determination could result in modifications to the scope of the project's regulated waterbody/wetland impacts and compensatory mitigation requirements identified above. An approved jurisdictional determination will be made prior to reaching a permit decision, and will be posted on the St. Paul District web page at <http://www.mvp.usace.army.mil/>.

Project Description and Purpose

The Sherburne County Highway Department is proposing to reconstruct an approximately 3 mile segment of County State Aid Highway (CSAH) 3 between CSAH 20 and CSAH 6. The work will be conducted in association with the in-place replacement of Bridge No. 7187 over Rice Creek. The project would include slope flattening, culvert work, shoulder widening and ditch grading, bridge replacement, reconstruction of the existing roadbed, resurfacing, and pavement marking. The purpose of the project is to

provide a safe, adequate roadway and crossing of Rice Creek by reconstructing CSAH 3 to meet current safety and design standards.

The existing roadway was last constructed in 1957 and displays several geometric deficiencies, including: narrow unpaved shoulders, horizontal curves, and poor soil structure under the roadway. The narrow, unpaved shoulders do not provide an area for vehicle recovery if a driver strays beyond the through travel lane. The current roadway has visible pavement distress, such as cracking and excessive patching. In addition, the existing bridge has low sufficiency ratings, and is classified as Structurally Deficient under MnDOT rules.

The project would result in the discharge of dredged and fill material into 0.64 acres fresh (wet) meadow, 0.86 acres shallow marsh, 1.0 acre shrub-carr or alder thicket, and 0.13 acres hardwood or coniferous swamp for a total of 2.63 acres of wetland impact. The project would also result in the discharge of dredge and fill material below the plane of the Ordinary High Water Mark (OHWM) along approximately 150 linear feet of Rice Creek.

The Sherburne County Highway Department has considered the following alternative: Alternative 1 – No Build Alternative – The no build alternative was considered; however, roadway deficiencies make this heavily traveled and important road unsafe. The existing curve in CSAH 3 does not meet safety design standards, and is not compliant with current MnDOT requirements. In addition, Bridge # 7187 over Rice Creek is classified as structurally deficient, with all components reaching their useful life capacity of 55 years.

The applicant proposes to fulfill compensatory mitigation requirements by debiting new wetland credits from the Board of Water and Soil Resources (BWSR) Road Replacement Program.

Drawings See attached.

(Sherburne County CSAH 3 Road Reconstruction Project)



Web Soil Survey
2014/10/10/2012 10:10:2012

Soil Map—Sherburne County, Minnesota
(Sherburne County CSAH 3 Road Reconstruction Project)

MAP LEGEND		MAP INFORMATION
Area of Interest (AOI)	Area of Interest (AOI)	Map Scale: 1:14,500 if printed on B size (11" x 17") sheet.
Soils	Soil Area Units	The soil surveys that comprise your AOI were mapped at 1:15,840.
Special Point Features	<ul style="list-style-type: none"> Blowout Narrow Pit Clay Slick Closed Depression Gravel Pit Gravelly Spot Landfill Leak Flow Marsh or Swamp Mine or Quarry Miscellaneous Water Perennial Water Rock Outcrop Saline Soil Sandy Spot Severely Eroded Spot Sinkhole Slide or Skid Soil Spot Spot Area Stony Spot 	Please rely on the bar scale on each map sheet for accurate map measurements.
	<ul style="list-style-type: none"> Very Stony Spot Wet Spot Other 	Source of Map: Natural Resources Conservation Service Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov Coordinate System: UTM Zone 15N NAD83
	Special Line Features	This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.
	<ul style="list-style-type: none"> Gully Gentle Steep Slope Other 	Soil Survey Area: Sherburne County, Minnesota Survey Area Data: Version 9, Jul 24, 2012
	Political Features	Date(s) aerial images were photographed: 8/7/2003; 7/23/2003
	<ul style="list-style-type: none"> Cities PLSS Township and Range PLSS Section 	The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.
	Water Features	
	Streams and Canals	
	Transportation	
	Rail	
	Interstate Highways	
	US Routes	
	Major Roads	
	Local Roads	

Map Unit Legend

Sherburne County, Minnesota (MN141)			
Map Unit Symbol	Map Unit Name	Acres in ACI	Percent of ACI
7A	Hubbard loamy sand, 0 to 2 percent slopes	20.7	2.5%
7B	Hubbard loamy sand, 2 to 6 percent slopes	21.9	1.9%
7C	Hubbard loamy sand, 6 to 12 percent slopes	6.3	0.5%
32B	Neesh loamy sandy loam, 2 to 6 percent slopes	10.1	0.9%
156A	Zimmerman fine sand, 0 to 3 percent slopes	18.1	1.7%
156B	Zimmerman fine sand, 3 to 6 percent slopes	166.5	17.1%
156C	Zimmerman fine sand, 6 to 12 percent slopes	41.0	3.5%
156E	Zimmerman fine sand, 12 to 25 percent slopes	0.0	0.0%
162	Leno loamy fine sand, 0 to 2 percent slopes	37.4	3.3%
168D	Brakhan loamy fine sand, 3 to 6 percent slopes	21.8	1.9%
169C	Brakhan loamy fine sand, 6 to 12 percent slopes	6.0	0.4%
258E	Sandberg loamy coarse sand, 12 to 35 percent slopes	19.3	1.7%
260	Dueth loamy sand, 0 to 2 percent slopes	20.9	1.8%
261	lean sandy loam, depressional, 0 to 1 percent slopes	19.4	0.9%
346	Talmont loam, 0 to 2 percent slopes	6.4	0.6%
454B	Mantonville loamy coarse sand, 1 to 6 percent slopes	104.9	9.1%
454C	Mantonville loamy coarse sand, 6 to 15 percent slopes	13.7	1.2%
540	Steelyville muck, 0 to 1 percent slopes	213.0	18.5%
543	Monkey muck, 0 to 1 percent slopes	12.0	1.0%
544	Caliro muck, 0 to 1 percent slopes	6.1	0.5%
566	Edvold loamy fine sand, 0 to 2 percent slopes	18.4	1.6%
923A	Pierz sandy loam, 0 to 2 percent slopes	24.1	2.1%
730A	Sarburn fine sandy loam, 0 to 2 percent slopes	57.4	5.0%
730B	Sarburn fine sandy loam, 2 to 8 percent slopes	23.7	1.9%
739	Steinyville and blowing silt, 0 to 1 percent slopes, frequently flooded	65.0	5.7%
1016	Ubotheria, loamy, old and fill land	0.1	0.0%
1109	lanit loamy fine sand, 0 to 2 percent slopes	27.1	2.4%
1110	lean sandy loam, 0 to 2 percent slopes	18.4	1.7%
1231	Hubbard-Mustard complex, 0 to 3 percent slopes	5.0	0.4%
1253B	Stonetake-Sarburn complex, 1 to 6 percent slopes	0.6	0.1%
1253C	Stonetake-Sarburn complex, 6 to 15 percent slopes	5.8	0.5%
1254	Hocatac fine sandy loam, 0 to 2 percent slopes	31.2	2.7%

Sherburne County, Minnesota (MN141)			
Map Unit Symbol	Map Unit Name	Acres in ACI	Percent of ACI
1296	Camden loamy fine sand, 0 to 3 percent slopes	21.2	1.8%
1288	Stacyville-Markley complex, percent 0 to 1 percent slopes	57.8	5.0%
Totals for Area of Interest		1,150.4	100.0%



Ken and Ernie Mervin
45-014-2100



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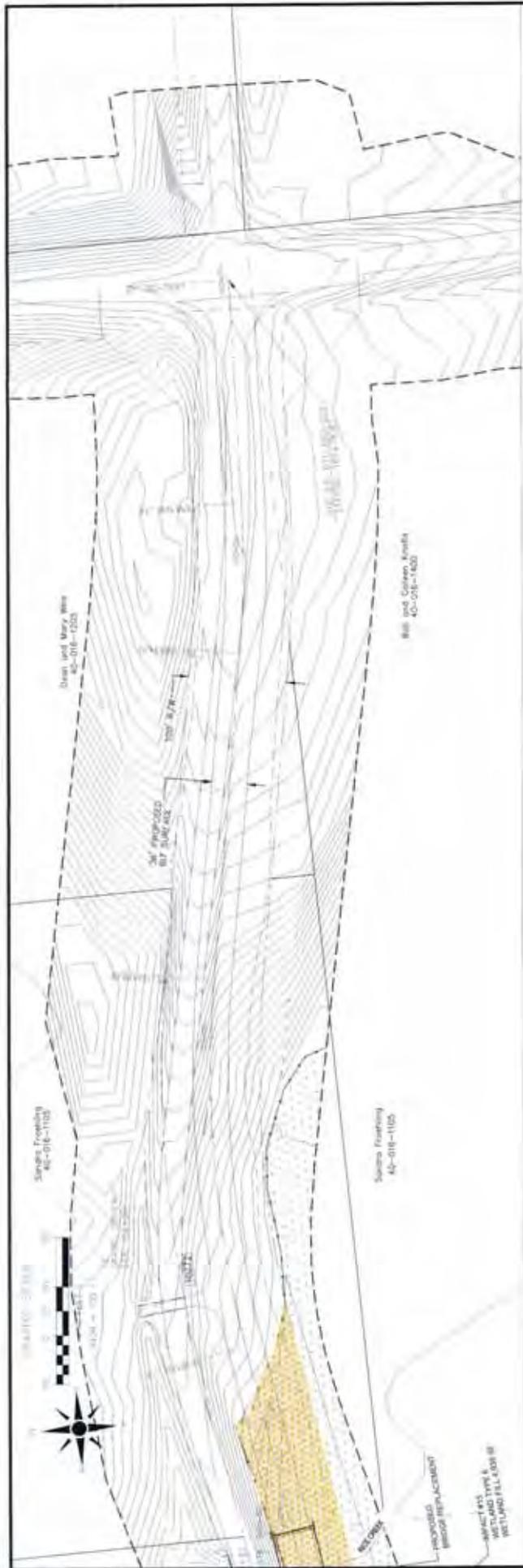
SAP: 071-603-019 SHEET NO. 5 OF 6 SHEETS

COUNTY STATE AID HIGHWAY 3
WETLAND IMPACTS

Ken and Ernie Mervin
45-014-2100

SHERBURNE COUNTY PUBLIC WORKS
405 JACKSON AVE. ELK RIVER, MINNESOTA 55000
Phone: (763) 765-0000





COUNTY STATE AID HIGHWAY 3
 WETLAND IMPACTS
 SHEET NO. 6 OF 6 SHEETS

SAF 071-603-09

SHERBURNE COUNTY PUBLIC WORKS
 405 JACKSON AVE. ELA RIVER, MINNESOTA 55330
 Phone (763) 765-3000



#9B. IMPACT SUMMARY

ID of Wetland Basin Impacted	Watershed Name or No.	County	Section, Twp., Range	Wetland Type	Predominant Vegetation	Size of Wetland Impact (SF)	Size of Wetland Basin
Impact #1	17	Sherburne	Sec. 7, T.35N. R.29W.	Type 3	n/a	16,730	unknown
Impact #2	17	Sherburne	Sec. 18, T.35N. R.29W.	Type 3	n/a	20,780	unknown
Impact #3	17	Sherburne	Sec. 17, T.35N. R.29W.	Type 6	n/a	2,078	unknown
Impact #4	17	Sherburne	Sec. 17, T.35N. R.29W.	Type 2	n/a	3,016	unknown
Impact #5	17	Sherburne	Sec. 8, T.35N. R.29W.	Type 2	n/a	14,892	unknown
Impact #6	17	Sherburne	Sec. 17, T.35N. R.29W.	Type 7	n/a	5,798	unknown
Impact #7	17	Sherburne	Sec. 17, T.35N. R.29W.	Type 2	n/a	3,120	unknown
Impact #8	17	Sherburne	Sec. 16, T.35N. R.29W.	Type 2	n/a	1,206	unknown
Impact #9	17	Sherburne	Sec. 9, T.35N. R.29W.	Type 6	n/a	788	unknown
Impact #10	17	Sherburne	Sec. 16, T.35N. R.29W.	Type 6	n/a	8,682	unknown
Impact #11	17	Sherburne	Sec. 16, T.35N. R.29W.	Type 2	n/a	669	unknown
Impact #12	17	Sherburne	Sec. 16, T.35N. R.29W.	Type 2	n/a	3,796	unknown
Impact #13	17	Sherburne	Sec. 16, T.35N. R.29W.	Type 2	n/a	970	unknown
Impact #14	17	Sherburne	Sec. 9, T.35N. R.29W.	Type 6	n/a	4,939	unknown
Impact #15	17	Sherburne	Sec. 9, T.35N. R.29W.	Type 6	n/a	27,123	unknown
						Total: 114,587 sf	