

Information for File # MVP-2015-02283-RAN

Applicant: Darwin Roberts

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Primary County: Martin

Section: 5

Township: 103 North

Range: 29 West

Information Complete On: November 27, 2015

Posting Expires On: December 21, 2015

Authorization Type: LOP-05-MN

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>.

Project Description

The applicant proposes to realign and stabilize approximately 650 linear feet of Elm Creek using a combination of bioengineering, rip rap, installing a rock chute, and connecting the existing channel to an oxbow. The project will occur in three phases.

Phase I: Stabilize the toe slope along 200 linear feet (extending 10 feet into the channel) of the east creek bank with log vanes, root wads, willow bundles and stakes. This will result in approximately 2,000 square feet of fill.

Phase II: Remove reed canary grass from wetland (1,180 cubic yards of excavation), connect the existing channel with the oxbow (438 cubic yards of excavation) and shape the landscape south of the oxbow to create a pathway for excessive flood flow back to Elm Creek (1,800 square foot minimum).

Phase III: Restore the west creek bank by installing a low berm (1,107 cubic yards of fill), re-shape/bench/fill west bank and plant with native material (6,355 cubic yards of fill), install a rock chute (200 cubic yards of fill), and install log vanes and root wads along 650 linear feet,

extending out into the channel up to 10 feet (6,500 square feet of fill), cut/reshape the bank. Also, excavate 6,355 cubic yards of the east bank to provide fill for the west bank.

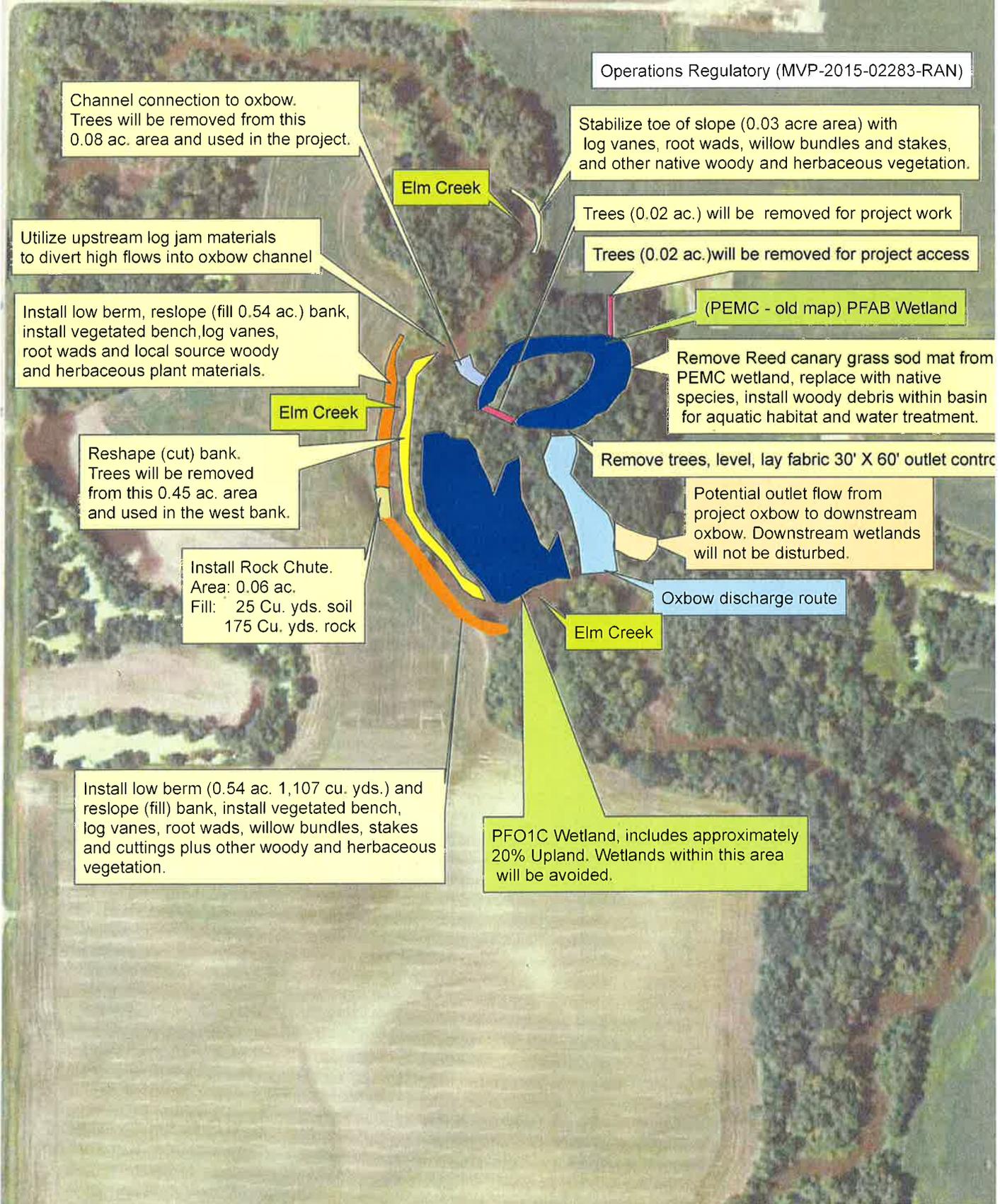
Federally Listed Threatened and Endangered Species

According to the USFWS Midwest Region website, which was checked on December 09, 2015, the Northern long-eared bat (threatened) and the Prairie bush clover (threatened) are found in Martin County.

Drawings

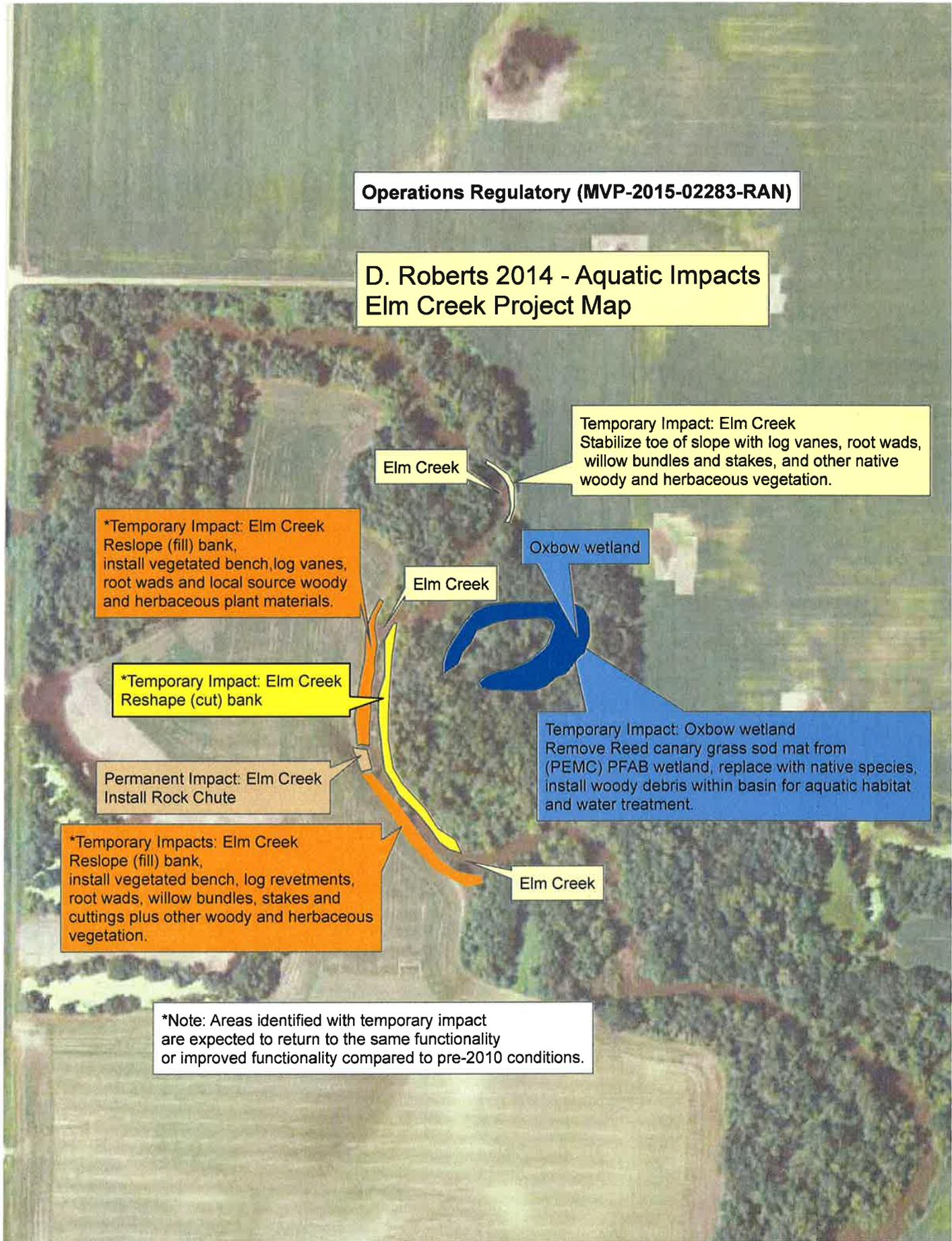
See attached MVP-2015-02283-RAN, Page 1 of 3 through Page 3 of 3.

D. Roberts 2014 - Elm Creek Project layout on Wetlands Map



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**D. Roberts 2014 - Aquatic Impacts
Elm Creek Project Map**



Temporary Impact: Elm Creek
Stabilize toe of slope with log vanes, root wads, willow bundles and stakes, and other native woody and herbaceous vegetation.

*Temporary Impact: Elm Creek
Reslope (fill) bank,
install vegetated bench, log vanes,
root wads and local source woody
and herbaceous plant materials.

*Temporary Impact: Elm Creek
Reshape (cut) bank

Permanent Impact: Elm Creek
Install Rock Chute

*Temporary Impacts: Elm Creek
Reslope (fill) bank,
install vegetated bench, log revetments,
root wads, willow bundles, stakes and
cuttings plus other woody and herbaceous
vegetation.

Oxbow wetland

Temporary Impact: Oxbow wetland
Remove Reed canary grass sod mat from
(PEMC) PFAB wetland, replace with native species,
install woody debris within basin for aquatic habitat
and water treatment.

Elm Creek

*Note: Areas identified with temporary impact
are expected to return to the same functionality
or improved functionality compared to pre-2010 conditions.

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D. Roberts 2014 - Tree Clearing Areas Elm Creek Flood Repair Project Map

