

LCCMR Work Program Final Report
Restoring Minnesota's Fish and Wildlife Habitat Corridors Phase 6
Habitat Conservation Partnership

2C:Shallow Lake Enhancement - Ducks Unlimited

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Total Biennial Project Budget

Result	ENTF Allocation	ENTF Funds Spent	ENTF Balance	Other Funds * Proposed	Other Funds * Spent
Restoration	\$225,000	\$225,000	\$0	\$100,000	\$299,977
Total	\$225,000	\$225,000	\$0	\$100,000	\$299,977

*Other Funds are classified as non-state, non-state leveraged dollars (if partner funds are leveraging State Funds (e.g. RIM) they are not eligible to be considered Other Funds). Please note, however, that this work program has spent the following amounts not shown in the above table:

State Funds: \$1,249.00

See the tables and funding type definitions at the end of this report for further explanation.

Work Program Summary

Overall Project Outcome and Results

The objective of this project was to accelerate Ducks Unlimited (DU) bio-engineering assistance to help agencies design and construct enhancement projects on shallow lakes for waterfowl using water control structures. DU biologists and engineers provided technical assistance to Minnesota DNR, U.S. Fish & Wildlife Service, and private landowners around shallow lakes with a goal of enhancing at least one shallow lake totaling 100 wetland acres with a new water control structure and/or fish barrier, engineering at least four new shallow lake enhancement structure projects for DNR on designated shallow lakes or basins within state Wildlife Management Areas (WMAs) and for the Service on federal Waterfowl Production Areas (WPA), and providing technical assistance to agency field staff on other shallow lake projects throughout HCP project areas.

Through this grant project, DU biologists and engineers surveyed and designed six new water control structures for the Minnesota DNR and US Fish & Wildlife Service, including Sandborn Lake in LeSueur County, Lindsey Lake in Becker County, Everglade WMA in Stevens County, Harder Lake and Wolf Lake WPAs in Cottonwood County, and Henjum WPA in Kandiyohi County. These six bio-engineering projects will be implemented in the future as permits and easements are secured. In addition, DU enhanced 453 wetland acres by constructing previously designed water control structures on the outlets of three shallow lakes, including Block WPA in Grant County, Perch Lake in Blue Earth County on Perch Lake WPA, and Gislason Lake in Lincoln County on the Northern Tallgrass Prairie National Wildlife Refuge. This far surpasses our target goal of enhancing at least one shallow lake totaling 100 wetland acres or more. Finally, DU shallow lakes field biologist provided ongoing technical assistance to Minnesota DNR and the Service on 30 shallow lake projects in HCP Project Areas to help assess and develop new projects for future possible bio-engineering, implementation, and management by those conservation agencies.

DU's total cost to provide these bio-engineering services to enhance shallow lakes was \$526,225, and included reimbursement of \$225,000 from the Environment & Natural Resources Trust Fund through this grant, and the expenditure of \$1,249 in Other State Funds and \$299,977 in Other Funds (DU and federal funds) that far exceeds the \$100,000 in Other Funds that we originally proposed to spend.

Project Results Use and Dissemination

This grant helped DU, DNR, and the Service accelerate the assessment and enhancement of shallow lakes throughout

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southern, central and western Minnesota. DU provided six detailed engineering design plans to state and federal agency staff, and informed the public of shallow lake improvement projects through public meetings, news releases sent to the media, and in articles in DU publications. Shallow lake assessment data collected by DU biologists was provided to DNR's shallow lake program and area wildlife managers, and shared with MPCA to aid in their impaired waters assessment.

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Restoration Activities

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Project Area - 1 - Aspen Parklands

<p>Project Name: Sandborn Lake Township: 112, Range: 23, Section: 35</p> <p>Activity: Shallow Lake Survey / Design / Wetland Mapping</p> <p>Landtype: Public - Lake</p> <p>Description: DU bio-engineering staff surveyed and designed a new water control structure for the outlet of Sandborn Lake in LeSueur County, which is one of DNR's 44 designated wildlife management lakes. The project will be constructed in the future once DNR obtains all the necessary land rights needed for structure placement and management.</p>				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$10,316.00	0.00	0.00
Other Funds	Personnel Expenditures	\$10,538.00	0.00	0.00
State Funds	Personnel Expenditures	\$1,249.00	0.00	0.00
Sandborn Lake Total		\$22,103.00	0.00	0.00
<p>Project Name: Lindsey Lake WPA Township: 141, Range: 42, Section: 33</p> <p>Activity: Shallow Lake Survey / Design / Wetland Mapping</p> <p>Landtype: Public - WPA</p> <p>Description: DU bio-engineering staff surveyed and designed a new water control structure for the outlet of Lindsey Lake in Becker County. The project will be implemented in the future once the U.S. Fish & Wildlife Service obtains the necessary permits and funding is secured.</p>				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$7,694.00	0.00	0.00
Other Funds	Personnel Expenditures	\$11,429.00	0.00	0.00
Lindsey Lake WPA Total		\$19,123.00	0.00	0.00
<p>Project Name: Harder Lake WPA Township: 106, Range: 36, Section: 14</p> <p>Activity: Shallow Lake Survey / Design / Wetland Mapping</p> <p>Landtype: Public - WPA</p> <p>Description: DU bio-engineering staff surveyed and designed a new water control structure for the outlet of a large wetland on Harder Lake WPA in Cottonwood County. The project will be implemented in the future once permits and funding is secured.</p>				
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$8,566.00	0.00	0.00
Other Funds	Personnel Expenditures	\$5,499.00	0.00	0.00
Harder Lake WPA Total		\$14,065.00	0.00	0.00

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Project Name:	Block WPA Township: 128, Range: 42, Section: 30			
Activity:	Wetland Enhancement			
Landtype:	Public - WPA			
Description:	DU bio-engineering staff surveyed and designed a water control structure for the outlet of a 22-acre degraded semi-permanent wetland on Block WPA in Grant County for the US Fish & Wildlife Service. DU contracted the construction of the project in fall 2009, and the Service used the structure to conduct a temporary draw-down to rejuvenate the aquatic ecology and improve water clarity of the basin.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$1,784.00	0.00	0.00
ENTF	Restoration	\$24,036.00	16.13	0.00
Other Funds	Personnel Expenditures	\$12,664.00	0.00	0.00
Other Funds	Restoration	\$8,739.00	5.87	0.00
Block WPA Total		\$47,223.00	22.00	0.00

Project Area - 9 - Des Moines River Valley

Project Name:	Gislason Lake Township: 111, Range: 44, Section: 1			
Activity:	Wetland Enhancement			
Landtype:	Public - NWR			
Description:	DU constructed a water control structure for the outlet of Gislason Lake in Lincoln County. The construction work began in fall 2009 and was completed in May 2010. The structure was used US Fish & Wildlife Service biologists from Big Stone NWR to conduct a temporary draw-down of the basin in fall and winter 2009-10 to rejuvenate it's aquatic ecology and improve water quality, and rid the basin of invasive fish. This enhancement will take place in 2010 and the basin will be reflooded in 2011 or 2012 by the Service, depending on the resulting aquatic vegetative response.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$17,691.00	0.00	0.00
ENTF	Restoration	\$80,964.00	103.75	0.00
Other Funds	Personnel Expenditures	\$7,707.00	0.00	0.00
Other Funds	Restoration	\$13,464.00	17.25	0.00
Gislason Lake Total		\$119,826.00	121.00	0.00

Project Name:	Wolf Lake WPA Township: 105, Range: 35, Section: 31			
Activity:	Shallow Lake Survey / Design / Wetland Mapping			
Landtype:	Public - WPA			
Description:	DU bio-engineering staff surveyed and designed a new water control structure for the outlet of Wolf Lake and associated wetlands Cottonwood County. The project will be implemented in the future once project funding and permits have been secured.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$11,346.00	0.00	0.00
Other Funds	Personnel Expenditures	\$11,291.00	0.00	0.00
Other Funds	Professional Services	\$689.00	0.00	0.00
Wolf Lake WPA Total		\$23,326.00	0.00	0.00

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Project Area - 10 - Southern Lakes

Project Name:	Perch Lake Township: 106, Range: 26, Section: 13			
Activity:	Wetland Enhancement			
Landtype:	Public - Lake			
Description:	DU engineered a new water control structure for the outlet of Perch Lake in Blue Earth County under our 2008 LCCMR Grant for HCP 2c, and constructed the new structure under this 2009 LCCMR Grant for HCP 3c. The old structure on the outlet of the lake that was constructed in the early 1970s failed and the DNR no longer had water level management control. DNR is now using the new structure built by DU to restore water levels in Perch Lake, which is one of DNR's 44 shallow lakes legally designated for wildlife management purposes, and will use the structure to conduct temporary water level draw-downs as needed to enhance the lake in the future.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Restoration	\$10,000.00	37.77	0.00
Other Funds	Personnel Expenditures	\$84,987.00	0.00	0.00
Other Funds	Restoration	\$72,067.00	272.23	0.00
Perch Lake Total		\$167,054.00	310.00	0.00

Project Area - 3-7-8 - Border Prairie Transition Zone

Project Name:	Henjum Lake WPA Township: 121, Range: 36, Section: 22			
Activity:	Shallow Lake Survey / Design / Wetland Mapping			
Landtype:	Public - WPA			
Description:	DU bio-engineering staff surveyed and designed a water control structure for the outlet of a large wetland on Henjum WPA in Kandiyohi County for the US Fish & Wildlife Service. The project will be implemented in the future once the Service obtains all the necessary flowage easements required, and secures project construction funding.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$5,657.00	0.00	0.00
Other Funds	Personnel Expenditures	\$10,511.00	0.00	0.00
Other Funds	Professional Services	\$690.00	0.00	0.00
Henjum Lake WPA Total		\$16,858.00	0.00	0.00

Project Name:	Everglade WMA - Fish Lake WPA Township: 126, Range: 44, Section: 36			
Activity:	Shallow Lake Survey / Design / Wetland Mapping			
Landtype:	Public - WMA			
Description:	DU bio-engineering staff surveyed and designed a new water control structure and invasive fish barrier for the outlet of the Everglade WMA and Fish Lake WPA complex in Stevens County. The project will be implemented in the future once DNR obtains all the necessary flowage rights and structure easements required.			
<i>Funding Type</i>	<i>Funds Use</i>	<i>Funding Amount</i>	<i>Prorated Acres</i>	<i>Prorated Shoreline</i>
ENTF	Personnel Expenditures	\$16,526.00	0.00	0.00
Other Funds	Personnel Expenditures	\$17,824.00	0.00	0.00
Everglade WMA - Fish Lake WPA Total		\$34,350.00	0.00	0.00

Restoration Project Totals (By Funding Type)

Funding Type	Funding Amount	Acres	Shoreline Feet
ENTF:	\$194,580.00	157.66	0.00

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Other Funds:	\$268,099.00	295.34	0.00
State Funds:	\$1,249.00	0.00	0.00
Total:	\$463,928.00	453.00	0.00

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Work Program Expenditures - Not Attributable to Specific Projects

<i>FundingType</i>	<i>Category</i>	<i>Amount</i>	<i>Description</i>
ENTF	Personnel Expenditures	\$714.00	DU biologists provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #6.
ENTF	Personnel Expenditures	\$16,958.00	DU biologists provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #3-7-8.
ENTF	Personnel Expenditures	\$3,707.00	DU biologists provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #10.
ENTF	Personnel Expenditures	\$4,638.00	DU biologists provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #9.
ENTF	Personnel Expenditures	\$4,403.00	DU conservation program manager coordinates activities of DU engineers and biologists, and administers this grant.
Other Funds	Personnel Expenditures	\$459.00	DU biologists will provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #6.
Other Funds	Personnel Expenditures	\$14,193.00	DU biologists will provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #3-7-8.
Other Funds	Personnel Expenditures	\$3,173.00	DU biologists will provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #10.
Other Funds	Personnel Expenditures	\$3,429.00	DU biologists will provide technical assistance to DNR and FWS agency staff and private landowners regarding shallow lakes in HCP Project Area #9.
Other Funds	Personnel Expenditures	\$10,624.00	DU conservation program manager coordinates activities of DU engineers and biologists, and administers this grant.
Total:		\$62,298.00	

Work Program Expenditures (Not Attributable to Specific Projects) By Funding Type

Funding Type	Amount
ENTF	\$30,420.00
Other Funds	\$31,878.00
Total	\$62,298.00

Work Program Expenditures Breakdown

Funding Type:	Restoration Projects	Not Attributable to Specific Projects	Total
ENTF	\$194,580.00	\$30,420.00	\$225,000.00
Other Funds	\$268,099.00	\$31,878.00	\$299,977.00

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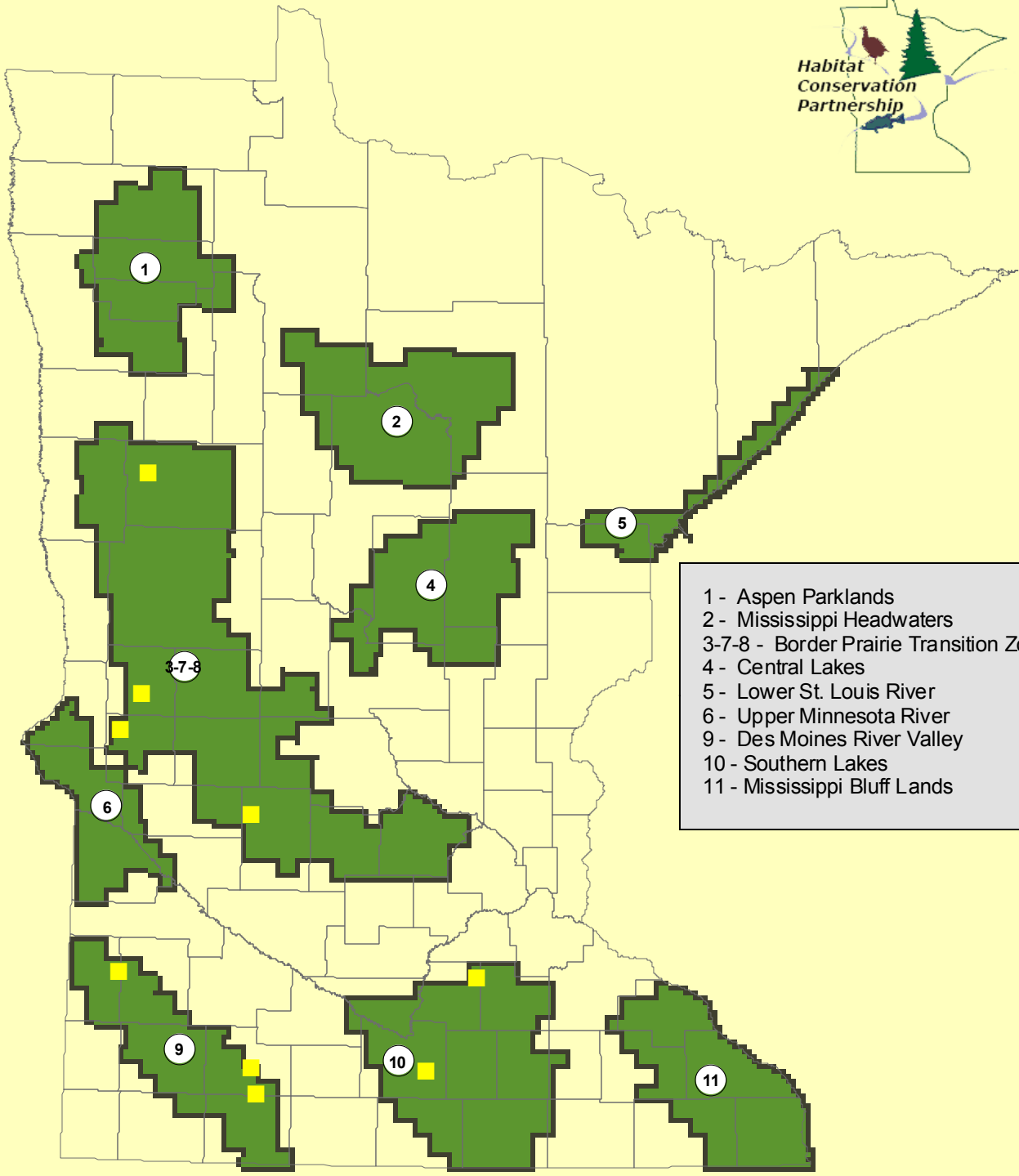
State Funds	\$0.00	\$0.00	\$1,249.00
Total	\$463,928.00	\$62,298.00	\$526,226.00

Funding Type Definitions




ENTF:	Grant dollars provided through the Minnesota Environment and Natural Resources Trust Fund
Other Funds:	Non-state, non-state leveraged dollars (if partner funds are leveraging State Funds (e.g. RIM) they are not eligible to be considered Other Funds)
State Funds:	State Funds expended on HCP projects (not eligible for use as Other Funds commitment)
Partner's State Leveraged Funds:	Non State Funds that have leveraged State Funds as part of an HCP project (not eligible for use as Other Funds commitment)
Other:	Any other expenditures (e.g. grant income funds)

Habitat Conservation Partnership Shallow Lake Enhancement

2C



- 1 - Aspen Parklands
- 2 - Mississippi Headwaters
- 3-7-8 - Border Prairie Transition Zone
- 4 - Central Lakes
- 5 - Lower St. Louis River
- 6 - Upper Minnesota River
- 9 - Des Moines River Valley
- 10 - Southern Lakes
- 11 - Mississippi Bluff Lands

 Restorations  Easements  Acquisitions