

Lessard-Sams Outdoor Heritage Council

Laws of Minnesota 2014 Final Report



Date: November 06, 2019

Program or Project Title: Accelerated Shallow Lakes and Wetland Enhancement Phase 6

Funds Recommended: \$1,050,000

Manager's Name: Ricky Lien

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Legislative Citation: ML 2014, Ch. 256, Art. 1, Sec. 2, Subd. 4(e)

Appropriation Language: \$1,050,000 in the second year is to the commissioner of natural resources to enhance and restore shallow lakes statewide. A list of proposed land restorations and enhancements must be provided as part of the required accomplishment plan.

County Locations: Aitkin, Anoka, Beltrami, Cass, Chippewa, Clearwater, Cottonwood, Crow Wing, Isanti, Jackson, Kittson, Lac qui Parle, Mahnomon, Marshall, McLeod, Meeker, Mille Lacs, Morrison, Otter Tail, Polk, Pope, Red Lake, Roseau, Stearns, St. Louis, Wabasha, Washington, Wilkin, and Wright.

Eco regions in which work was completed:

- Northern Forest
- Forest / Prairie Transition
- Southeast Forest
- Prairie
- Metro / Urban

Activity types:

- Enhance

Priority resources addressed by activity:

- Wetlands

Summary of Accomplishments:

Many of Minnesota's wetlands have been lost and the remainder degraded. Recent tiling and ditching have accelerated this situation. Through this program, shallow lakes and wetlands were designed, constructed, and intensively managed to benefit wetland wildlife and Minnesota residents. Habitat accomplishments from this proposal have enhanced 19,365 acres of wetlands and shallow lakes to benefit waterfowl and wetland wildlife. Work was accomplished through constructed infrastructure, cattail control, and a significant prescribed wetland burn.

Process & Methods:

Approximately 30 species of waterfowl are regular migrants through Minnesota. More than a dozen breed and nest in Minnesota. While each of these species has its own particular habitat needs the common bond is a dependence on wetland habitat for survival. Meeting the needs of these waterfowl requires a complex of wetland sizes and types ranging from temporary and seasonal wetlands to large permanent shallow lakes. Habitat work accomplished with this OHF appropriation contributes to the needs of these waterfowl and other wetland-associated wildlife.

Five wetland/shallow lake infrastructure projects were designed and completed (Carlos Avery WMA, Anoka County; Joe River WMA, Kittson County; Cornish Flowage, Aitkin County; Mille Lacs WMA, Mille Lacs County; and Dry Sand WMA, Cass County). These projects improved or replaced dikes and water level control structures. These projects enhanced 3,079 acres of wetland habitat. In addition to these design and construct projects, another four projects were design only. Because of the complexity of many shallow lake and wetland infrastructure projects, we sometimes begin by bringing in engineers to survey and design potential projects. We can use this initial information to develop cost estimates, obtain permits, and determine if and when to move ahead with construction. Because design-only projects do not entail construction, no acres are claimed for these projects, as is consistent with our past reports. These four design-only projects were at Spohn WMA, Quistorff WMA, Aurzada WMA, and Ruff-Nik WMA, all in Todd County.

6,068 acres of invasive cattails were sprayed statewide. This work was done in both 2015 and 2018. The work in 2015 was done using private contractors, but in 2018 we were able to do the work using a state-owned helicopter outfitted with an OHF-funded spray unit and using the OHF-funded Roving Habitat Crews as ground support personnel. The acreage of cattails sprayed includes 13.3 acres of a new invasive grass that was discovered at McCarthy Lake WMA. We were able to effectively deal with this potential threat thanks to the equipment and personnel we now have available. While aerial spraying of monotypic stands of cattails can't resolve the problem statewide due to the extent of their coverage, property managers are excited to have aerial spraying as a means to improve wetland habitat at select sites.

Finally, a major prescribed wetland burn was funded out of this appropriation which enhanced 10,200 acres. This was one of the largest prescribed burns ever done in Minnesota. The effectiveness of this burn and its relatively low cost have property managers considering future large wetland burns.

In total, 19,365 wetland acres were enhanced by this appropriation, well above the Accomplishment Plan goal.

Explain Partners, Supporters, & Opposition:

Ducks Unlimited took on one project that was initially planned to be done with this OHF appropriation. The ability to communicate with partners to determine who can most effectively complete complex wetland projects benefits everyone by ensuring projects are done in the most efficient manner possible.

Additional Comments:

Exceptional challenges, expectations, failures, opportunities, or unique aspects of program

The ability to add, subtract and modify the parcel list throughout the life of an appropriation is critical given the complexity of wetland projects. Wetland projects, especially those involved large or complicated infrastructure components, are complex due to engineering, weather, permitting, costs, etc. Flexibility is needed to move projects on and off the parcel list or move them between appropriations.

An ongoing issue is the ability of DNR engineering to accommodate the number of projects that need survey and design work. Assessment of their ability to provide this service is ongoing. Options being considered include contracting with private engineering companies or obtaining DNR engineers who will only work on wetland projects.

Other Funds Received:

- Not Listed

How were the funds used to advanced the program:

Interest in Minnesota's wetland and shallow lake habitats has resulted in numerous initiatives with a variety of funding sources, including the Environmental and Natural Resource Trust Fund and Clean Water Fund. The work from this program complement the goals of other funds, though project selection is based on wildlife benefits.

What is the plan to sustain and/or maintain this work after the Outdoor Heritage Funds are expended:

Engineers from the DNR make "warranty" visits to completed projects at set times after construction to ensure that the project is functioning as designed and to implement any needed corrections. Area Wildlife Managers are responsible to provide needed oversight of completed project over time to ensure management and maintenance needs are met and that available resources are sufficient to have a functioning project. Shallow Lake Specialists are available for shallow lake projects to undertake standardized assessments to document project success, problems, or management issues over time.

Outcomes:

The original accomplishment plan stated the program would

Programs in the northern forest region:

- Healthy populations of endangered, threatened, and special concern species as well as more common species
-

How will the outcomes be measured and evaluated?

Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.

Programs in forest-prairie transition region:

- Protected, restored, and enhanced nesting and migratory habitat for waterfowl, upland birds, and species of greatest conservation need
- Wetland and upland complexes will consist of native prairies, restored prairies, quality grasslands, and restored shallow lakes and wetlands
- Increased waterfowl and upland bird migratory and breeding success

How will the outcomes be measured and evaluated?

Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.

Programs in metropolitan urbanizing region:

- Not Listed

How will the outcomes be measured and evaluated?

Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.

Programs in southeast forest region:

- Not Listed

How will the outcomes be measured and evaluated?

Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.

Programs in prairie region:

- Improved condition of habitat on public lands
- Increased wildlife productivity
- Remnant native prairies are part of large complexes of restored prairies, grasslands, and large and small wetlands
- Improve aquatic vegetation
- Enhanced shallow lake productivity
- Protected, restored, and enhanced habitat for migratory and unique Minnesota species

How will the outcomes be measured and evaluated?

Intensive wetland management and habitat infrastructure maintenance will provide the wetland base called for in numerous prairie, shallow lake and waterfowl plans. Area wildlife staff and/or shallow lakes staff will monitor completed projects to determine success of implementation and to assess the need for future management and/or maintenance.

Budget Spreadsheet

Final Budget line item reallocations are allowed up to 10% and do not need require an amendment to the Accomplishment Plan

Total Amount: \$1,050,000

Budget and Cash Leverage

BudgetName	Request	Spent	Cash Leverage (anticipated)	Cash Leverage (received)	Leverage Source	Total (original)	Total (final)
Personnel	\$0	\$0	\$0	\$0		\$0	\$0
Contracts	\$798,500	\$581,000	\$0	\$0		\$798,500	\$581,000
Fee Acquisition w/ PILT	\$0	\$0	\$0	\$0		\$0	\$0
Fee Acquisition w/o PILT	\$0	\$0	\$0	\$0		\$0	\$0
Easement Acquisition	\$0	\$0	\$0	\$0		\$0	\$0
Easement Stewardship	\$0	\$0	\$0	\$0		\$0	\$0
Travel	\$0	\$0	\$0	\$0		\$0	\$0
Professional Services	\$70,000	\$233,400	\$0	\$0		\$70,000	\$233,400
Direct Support Services	\$86,500	\$57,600	\$0	\$0		\$86,500	\$57,600
DNR Land Acquisition Costs	\$0	\$0	\$0	\$0		\$0	\$0
Capital Equipment	\$0	\$0	\$0	\$0		\$0	\$0
Other Equipment/Tools	\$0	\$0	\$0	\$0		\$0	\$0
Supplies/Materials	\$95,000	\$5,700	\$0	\$0		\$95,000	\$5,700
DNR IDP	\$0	\$0	\$0	\$0		\$0	\$0
Total	\$1,050,000	\$877,700	\$0	\$0		\$1,050,000	\$877,700

Explain any budget challenges or successes:

An ongoing challenge is getting engineering assistance to initiate large construction projects. We may have outpaced our DNR engineer's ability to handle the number of projects we're presenting them. We are looking at options such as hiring engineers to only work on DNR habitat project or contracting with private engineers.

There are multiple successes: (1) the flexibility to add and subtract projects from the parcel list as needed is key to dealing with complex wetland habitat issues; (2) the OHF-funded equipment to spray cattails is a cheaper and more effective than contracting; (3) new budget tracking tools are available.

All revenues received by the recipient that have been generated from activities on land with money from the OHF:

Total Revenue: \$0

Revenue Spent: \$0

Revenue Balance: \$0

- E. This is not applicable as there was no revenue generated.

Output Tables

Table 1a. Acres by Resource Type

Type	Wetlands (original)	Wetlands (final)	Prairies (original)	Prairies (final)	Forest (original)	Forest (final)	Habitats (original)	Habitats (final)	Total (original)	Total (final)
Restore	0	0	0	0	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0	0	0	0	0
Enhance	6,788	19,365	0	0	0	0	0	0	6,788	19,365
Total	6,788	19,365	0	0	0	0	0	0	6,788	19,365

Table 2. Total Funding by Resource Type

Type	Wetlands (original)	Wetlands (final)	Prairies (original)	Prairies (final)	Forest (original)	Forest (final)	Habitats (original)	Habitats (final)	Total (original)	Total (final)
Restore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$1,050,000	\$877,700	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,000	\$877,700
Total	\$1,050,000	\$877,700	\$0	\$0	\$0	\$0	\$0	\$0	\$1,050,000	\$877,700

Table 3. Acres within each Ecological Section

Type	Metro Urban (original)	Metro Urban (final)	ForestPrairie (original)	Forest Prairie (final)	SEForest (original)	SE Forest (final)	Prairie (original)	Prairie (final)	N Forest (original)	N Forest (final)	Total (original)	Total (final)
Restore	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Fee with State PILT Liability	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Fee W/O State PILT Liability	0	0	0	0	0	0	0	0	0	0	0	0
Protect in Easement	0	0	0	0	0	0	0	0	0	0	0	0
Enhance	0	521	3,132	4,004	0	13	497	1,207	3,159	13,620	6,788	19,365
Total	0	521	3,132	4,004	0	13	497	1,207	3,159	13,620	6,788	19,365

Table 4. Total Funding within each Ecological Section

Type	Metro Urban (original)	Metro Urban (final)	Forest Prairie (original)	Forest Prairie (final)	SEForest (original)	SE Forest (final)	Prairie (original)	Prairie (final)	N Forest (original)	N Forest (final)	Total (original)	Total (final)
Restore	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee with State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Fee W/O State PILT Liability	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Protect in Easement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Enhance	\$0	\$124,800	\$326,600	\$236,200	\$0	\$500	\$181,200	\$42,100	\$542,200	\$474,100	\$1,050,000	\$877,700
Total	\$0	\$124,800	\$326,600	\$236,200	\$0	\$500	\$181,200	\$42,100	\$542,200	\$474,100	\$1,050,000	\$877,700

Automatic system calculation / not entered by managers

Target Lake/Stream/River Feet or Miles (original)

0

Target Lake/Stream/River Feet or Miles (final)

0

Explain the success/shortage of acre goals:

Wetland habitat work can be technically complex, expensive, and may be hampered by weather and permit issues. This appropriation successfully exceeded the expected acreage impacts thanks to some large individual projects. Cattail control was made possible by OHF funding used to purchase an aerial spray unit and impacted numerous Wildlife Management Areas. A prescribed burn of a wetland in northwest Minnesota enhanced over 10,000 acres and was one of the largest ever conducted in the state. It's success is leading to plans for other major burns on a similar scale.

Parcel List

Section 1 - Restore / Enhance Parcel List

Aitkin

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Cornish Flowage	05123223	147	\$141,500	Yes	Wetland infrastructure

Anoka

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Carlos Avery Pool 6	03322222	220	\$114,300	Yes	Design and construct

Beltrami

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Moose River WMA Prescribed Fire	15737233	10,200	\$10,600	Yes	Wetland prescribed burn

Cass

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Dry Sand WMA	13532206	190	\$60,528	Yes	Wetland Infrastructure
Dry Sand WMA - Cattail	13532206	27	\$945	Yes	Cattail Control

Chippewa

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Franko WMA	11738214	28	\$1,000	Yes	Cattail Control

Clearwater

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Little Pine WMA	14838204	23	\$800	Yes	Cattail Control
Upper Rice Lake	14537212	63	\$2,200	Yes	Cattail Control

Cottonwood

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Augusta Lake	10637210	108	\$3,800	Yes	Cattail Control
Delft WMA	10635220	39	\$1,300	Yes	Cattail Control
Little Swan WMA	10635218	49	\$1,700	Yes	Cattail Control

Crow Wing

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Mission WMA	13527209	30	\$1,000	Yes	Cattail Control

Isanti

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Spencer Brook WMA	03525222	45	\$1,600	Yes	Cattail Control

Jackson

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Heron Lake	10437234	336	\$11,700	Yes	Cattail Control
Teal Lake WMA	10436230	16	\$600	Yes	Cattail Control
Timber Lake WMA	10437213	5	\$200	Yes	Cattail Control

Kittson

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Beaches Lake WMA	16145208	154	\$10,500	Yes	Cattail Control
Joe River	16449234	47	\$61,700	Yes	Wetland Infrastructure
Twin Lakes WMA	15945210	111	\$3,900	Yes	Cattail Control

Lac qui Parle

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Lac qui Parle WMA	12045212	55	\$1,900	Yes	Cattail Control

Mahnomen

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Bejou WMA	14642229	30	\$1,000	Yes	Cattail Control

Marshall

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
East Park WMA	15844221	301	\$10,500	Yes	Cattail Control
Eckvoll WMA	15640219	301	\$10,500	Yes	Cattail Control
Elm Lake WMA	15541206	877	\$30,572	Yes	Cattail Control

McLeod

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Bakers Lake	11429220	27	\$900	Yes	Cattail Control

Meeker

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Greenleaf WMA	11831233	58	\$2,000	Yes	Cattail Control
Knapp WMA	11929201	42	\$1,500	Yes	Cattail Control
Litchfield WMA	11931204	14	\$500	Yes	Cattail Control
Madsen WMA	12031223	136	\$4,800	Yes	Cattail Control

Mille Lacs

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Kunkel WMA	03627235	80	\$2,800	Yes	Cattail Control
Mille Lacs WMA	04126225	2,475	\$240,331	Yes	Wetland infrastructure
Mille Lacs WMA - Cattails	04126236	291	\$10,200	Yes	Cattail Control

Morrison

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Little Elk WMA	13031220	138	\$4,800	Yes	Cattail Control

Otter Tail

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Armor WMA	13440205	71	\$2,500	Yes	Cattail Control

Polk

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Dugdale WMA	14944233	147	\$5,100	Yes	Cattail Control
Pembina WMA	15246213	484	\$16,900	Yes	Cattail Control

Pope

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Sedan WMA	12537236	124	\$4,300	Yes	Cattail Control

Red Lake

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Moran WMA	15145202	30	\$1,100	Yes	Cattail Control

Roseau

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Roseau River WMA	16344211	1,218	\$42,500	Yes	Cattail Control

Stearns

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Padua WMA	12535224	29	\$1,000	Yes	Cattail Control
Tamarack-Mohs WMA	12335216	29	\$1,000	Yes	Cattail Control
Zion WMA	12332231	25	\$900	Yes	Cattail Control

St. Louis

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Darwin Meyers WMA	06015235	196	\$6,800	Yes	Cattail Control

Wabasha

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
McCarthy Lake WMA	10910202	13	\$500	Yes	Cattail Control

Washington

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Paul Hugo Farms WMA	03121216	33	\$1,200	Yes	Cattail Control

Wilkin

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Manston Marsh WMA	13547224	100	\$3,500	Yes	Cattail Control

Wright

Name	TRDS	Acres	Total Cost	Existing Protection?	Description
Maple Lake WMA	12126229	34	\$1,200	Yes	Cattail Control
Swartout WMA	12027203	16	\$600	Yes	Cattail Control
Woodland WMA	11826212	50	\$1,800	Yes	Cattail Control

Section 2 - Protect Parcel List

No parcels with an activity type protect.

Section 2a - Protect Parcel with Bldgs

No parcels with an activity type protect and has buildings.

Section 3 - Other Parcel Activity

No parcels with an other activity type.

Completed Parcel: Armor WMA

# of Total Acres:	71
County:	Otter Tail
Township:	134
Range:	40
Direction:	2
Section:	05
# of Acres: Wetlands/Upland:	71
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$2,480

Completed Parcel: Augusta Lake

# of Total Acres:	108
County:	Cottonwood
Township:	106
Range:	37
Direction:	2
Section:	10
# of Acres: Wetlands/Upland:	108
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$3,767

Completed Parcel: Bakers Lake

# of Total Acres:	27
County:	McLeod
Township:	114
Range:	29
Direction:	2
Section:	20
# of Acres: Wetlands/Upland:	27
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$928

Completed Parcel: Beaches Lake WMA

# of Total Acres:	154
County:	Kittson
Township:	161
Range:	45
Direction:	2
Section:	08
# of Acres: Wetlands/Upland:	154
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$10,509

Completed Parcel: Bejou WMA

# of Total Acres:	30
County:	Mahnomen
Township:	146
Range:	42
Direction:	2
Section:	29
# of Acres: Wetlands/Upland:	30
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,046

Completed Parcel: Carlos Avery Pool 6

# of Total Acres:	220
County:	Anoka
Township:	033
Range:	22
Direction:	2
Section:	22
# of Acres: Wetlands/Upland:	220
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$114,347

Completed Parcel: Cornish Flowage

# of Total Acres:	147
County:	Aitkin
Township:	051
Range:	23
Direction:	2
Section:	23
# of Acres: Wetlands/Upland:	147
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$141,459

Completed Parcel: Darwin Meyers WMA

# of Total Acres:	196
County:	St. Louis
Township:	060
Range:	15
Direction:	2
Section:	35
# of Acres: Wetlands/Upland:	196
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$6,830

Completed Parcel: Delft WMA

# of Total Acres:	39
County:	Cottonwood
Township:	106
Range:	35
Direction:	2
Section:	20
# of Acres: Wetlands/Upland:	39
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,343

Completed Parcel: Dry Sand WMA

# of Total Acres:	190
County:	Cass
Township:	135
Range:	32
Direction:	2
Section:	06
# of Acres: Wetlands/Upland:	190
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$60,528

Completed Parcel: Dry Sand WMA - Cattail

# of Total Acres:	27
County:	Cass
Township:	135
Range:	32
Direction:	2
Section:	06
# of Acres: Wetlands/Upland:	27
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$945

Completed Parcel: Dugdale WMA

# of Total Acres:	147
County:	Polk
Township:	149
Range:	44
Direction:	2
Section:	33
# of Acres: Wetlands/Upland:	147
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$5,110

Completed Parcel: East Park WMA

# of Total Acres:	301
County:	Marshall
Township:	158
Range:	44
Direction:	2
Section:	21
# of Acres: Wetlands/Upland:	301
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$10,506

Completed Parcel: Eckvoll WMA

# of Total Acres:	301
County:	Marshall
Township:	156
Range:	40
Direction:	2
Section:	19
# of Acres: Wetlands/Upland:	301
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$10,509

Completed Parcel: Elm Lake WMA

# of Total Acres:	877
County:	Marshall
Township:	155
Range:	41
Direction:	2
Section:	06
# of Acres: Wetlands/Upland:	877
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$30,572

Completed Parcel: Franko WMA

# of Total Acres:	28
County:	Chippewa
Township:	117
Range:	38
Direction:	2
Section:	14
# of Acres: Wetlands/Upland:	28
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$973

Completed Parcel: Greenleaf WMA

# of Total Acres:	58
County:	Meeker
Township:	118
Range:	31
Direction:	2
Section:	33
# of Acres: Wetlands/Upland:	58
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$2,006

Completed Parcel: Heron Lake

# of Total Acres:	336
County:	Jackson
Township:	104
Range:	37
Direction:	2
Section:	34
# of Acres: Wetlands/Upland:	336
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$11,716

Completed Parcel: Joe River

# of Total Acres:	47
County:	Kittson
Township:	164
Range:	49
Direction:	2
Section:	34
# of Acres: Wetlands/Upland:	47
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$61,662

Completed Parcel: Knapp WMA

# of Total Acres:	42
County:	Meeker
Township:	119
Range:	29
Direction:	2
Section:	01
# of Acres: Wetlands/Upland:	42
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,465

Completed Parcel: Kunkel WMA

# of Total Acres:	80
County:	Mille Lacs
Township:	036
Range:	27
Direction:	2
Section:	35
# of Acres: Wetlands/Upland:	80
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$2,797

Completed Parcel: Lac qui Parle WMA

# of Total Acres:	55
County:	Lac qui Parle
Township:	120
Range:	45
Direction:	2
Section:	12
# of Acres: Wetlands/Upland:	55
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,922

Completed Parcel: Litchfield WMA

# of Total Acres:	14
County:	Meeker
Township:	119
Range:	31
Direction:	2
Section:	04
# of Acres: Wetlands/Upland:	14
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$478

Completed Parcel: Little Elk WMA

# of Total Acres:	138
County:	Morrison
Township:	130
Range:	31
Direction:	2
Section:	20
# of Acres: Wetlands/Upland:	138
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$4,813

Completed Parcel: Little Pine WMA

# of Total Acres:	23
County:	Clearwater
Township:	148
Range:	38
Direction:	2
Section:	04
# of Acres: Wetlands/Upland:	23
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$788

Completed Parcel: Little Swan WMA

# of Total Acres:	49
County:	Cottonwood
Township:	106
Range:	35
Direction:	2
Section:	18
# of Acres: Wetlands/Upland:	49
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,720

Completed Parcel: Madsen WMA

# of Total Acres:	136
County:	Meeker
Township:	120
Range:	31
Direction:	2
Section:	23
# of Acres: Wetlands/Upland:	136
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$4,751

Completed Parcel: Manston Marsh WMA

# of Total Acres:	100
County:	Wilkin
Township:	135
Range:	47
Direction:	2
Section:	24
# of Acres: Wetlands/Upland:	100
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$3,488

Completed Parcel: Maple Lake WMA

# of Total Acres:	34
County:	Wright
Township:	121
Range:	26
Direction:	2
Section:	29
# of Acres: Wetlands/Upland:	34
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,193

Completed Parcel: McCarthy Lake WMA

# of Total Acres:	13
County:	Wabasha
Township:	10 9
Range:	10
Direction:	2
Section:	0 2
# of Acres: Wetlands/Upland:	13
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$464

Completed Parcel: Mille Lacs WMA

# of Total Acres:	2475
County:	Mille Lacs
Township:	041
Range:	26
Direction:	2
Section:	25
# of Acres: Wetlands/Upland:	2475
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$240,331

Completed Parcel: Mille Lacs WMA - Cattails

# of Total Acres:	291
County:	Mille Lacs
Township:	041
Range:	26
Direction:	2
Section:	36
# of Acres: Wetlands/Upland:	291
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$10,157

Completed Parcel: Mission WMA

# of Total Acres:	30
County:	Crow Wing
Township:	135
Range:	27
Direction:	2
Section:	09
# of Acres: Wetlands/Upland:	30
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,046

Completed Parcel: Moose River WMA Prescribed Fire

# of Total Acres:	10 200
County:	Beltrami
Township:	157
Range:	37
Direction:	2
Section:	33
# of Acres: Wetlands/Upland:	10 200
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$10,631

Completed Parcel: Moran WMA

# of Total Acres:	30
County:	Red Lake
Township:	151
Range:	45
Direction:	2
Section:	02
# of Acres: Wetlands/Upland:	30
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,053

Completed Parcel: Padua WMA

# of Total Acres:	29
County:	Stearns
Township:	125
Range:	35
Direction:	2
Section:	24
# of Acres: Wetlands/Upland:	29
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,015

Completed Parcel: Paul Hugo Farms WMA

# of Total Acres:	33
County:	Washington
Township:	031
Range:	21
Direction:	2
Section:	16
# of Acres: Wetlands/Upland:	33
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,151

Completed Parcel: Pembina WMA

# of Total Acres:	484
County:	Polk
Township:	152
Range:	46
Direction:	2
Section:	13
# of Acres: Wetlands/Upland:	484
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$16,864

Completed Parcel: Roseau River WMA

# of Total Acres:	1218
County:	Roseau
Township:	163
Range:	44
Direction:	2
Section:	11
# of Acres: Wetlands/Upland:	1218
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$42,524

Completed Parcel: Sedan WMA

# of Total Acres:	124
County:	Pope
Township:	125
Range:	37
Direction:	2
Section:	36
# of Acres: Wetlands/Upland:	124
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$4,339

Completed Parcel: Spencer Brook WMA

# of Total Acres:	45
County:	Isanti
Township:	035
Range:	25
Direction:	2
Section:	22
# of Acres: Wetlands/Upland:	45
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,584

Completed Parcel: Swartout WMA

# of Total Acres:	16
County:	Wright
Township:	120
Range:	27
Direction:	2
Section:	03
# of Acres: Wetlands/Upland:	16
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$565

Completed Parcel: Tamarack-Mohs WMA

# of Total Acres:	29
County:	Stearns
Township:	123
Range:	35
Direction:	2
Section:	16
# of Acres: Wetlands/Upland:	29
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,008

Completed Parcel: Teal Lake WMA

# of Total Acres:	16
County:	Jackson
Township:	104
Range:	36
Direction:	2
Section:	30
# of Acres: Wetlands/Upland:	16
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$558

Completed Parcel: Timber Lake WMA

# of Total Acres:	5
County:	Jackson
Township:	104
Range:	37
Direction:	2
Section:	13
# of Acres: Wetlands/Upland:	5
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$171

Completed Parcel: Twin Lakes WMA

# of Total Acres:	111
County:	Kittson
Township:	159
Range:	45
Direction:	2
Section:	10
# of Acres: Wetlands/Upland:	111
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$3,886

Completed Parcel: Upper Rice Lake

# of Total Acres:	63
County:	Clearwater
Township:	145
Range:	37
Direction:	2
Section:	12
# of Acres: Wetlands/Upland:	63
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$2,197

Completed Parcel: Woodland WMA

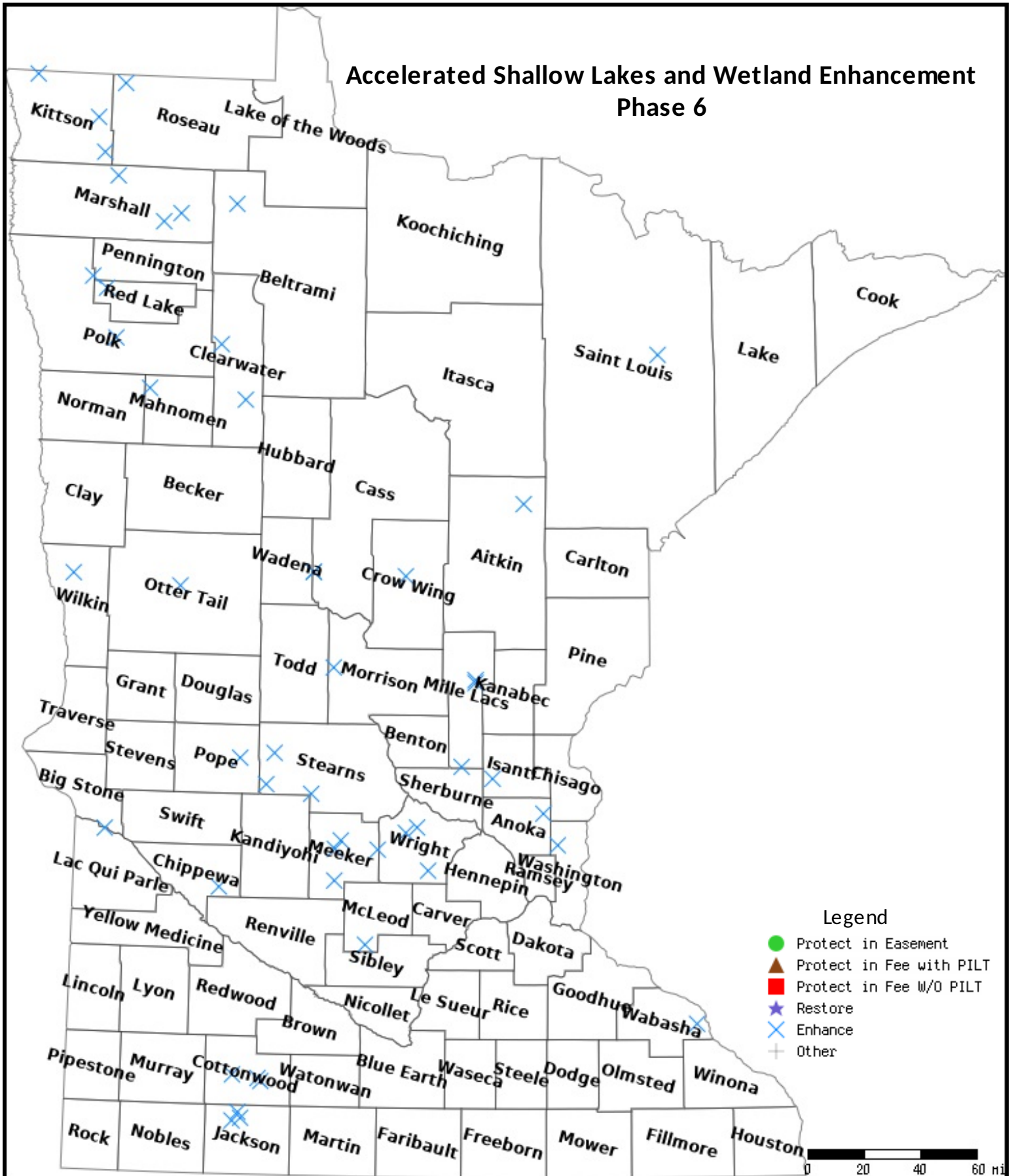
# of Total Acres:	50
County:	Wright
Township:	118
Range:	26
Direction:	2
Section:	12
# of Acres: Wetlands/Upland:	50
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$1,758

Completed Parcel: Zion WMA

# of Total Acres:	25
County:	Stearns
Township:	123
Range:	32
Direction:	2
Section:	31
# of Acres: Wetlands/Upland:	25
# of Acres: Forest:	
# of Acres: Prairie/Grassland:	
Amount of Shoreline:	
Name of Adjacent Body of Water (if applicable):	
Has there been signage erected at the site:	Yes
Total cost of Restoration/Enhancement:	\$858

Parcel Map

Accelerated Shallow Lakes and Wetland Enhancement Phase 6



- Legend
- Protect in Easement
 - ▲ Protect in Fee with PILT
 - Protect in Fee W/O PILT
 - ★ Restore
 - × Enhance
 - ⊕ Other

