

Identify and address ground and surface water quality problems stemming from inadequate wastewater treatment by supporting the enforcement of Sub Surface Treatment Systems (SSTS) ordinances and inventory and upgrade 50% of non-compliant systems in priority areas

What		How Much		Where	Who	When					Cost
Action	Program	Level of Effort	10-year measurable Outcome	Targeted Resources	Lead/ Supporting entities	2022-2023	2024-2025	2027-2028	2029-2030	2031-2032	Total 10-year cost
Outreach campaign to Big Lake residents on Septic system maintenance	E&O	WBIF	1 campaign implemented	Big Lake	Fond du Lac / County					x	\$1000

Manage chlorides reaching surface and ground water from road salts and water softener salts by ensuring 100% of municipalities have Smart Salt Certified Staff, 100% Communities achieved Level 2 Certified & education & outreach to 100% of priority landowners.

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Provide Smart Salt training to 4 FDL staff	E&O	WBIF / Other	4 trained staff	Big Lake, Second Lake	Fond du Lac / MPCA		x		x		
Include better planning for snow storage to keep roads and sidewalks cleared, and protect stormwater BMPs at Min No Aya Win Clinic	E&O	WBIF / Other	4 trained staff	Second Lake	Fond du Lac / MPCA		x		x		

Reconnect 2 miles of priority streams and tributaries to benefit aquatic life and improve water quality.

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Design and implement removal of barriers at Martin Branch (Stevens Road)	C	WBIF / Other	1 project completed	Martin Branch	Fond du Lac/St. Louis County			x	x		\$100,000

Restore stream reaches that have been altered by human activity, including impounded, straightened, and incised stream reaches on 1000 Linear Feet of high priority streams and tributaries.

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Design and implement 1000 feet of stream channel restoration @ Martin Branch (Stevens Road)	C	WBIF / Other	1000 feet restored	Martin Branch	Fond du Lac/ contractors				x	x	\$50,000
Deploy drone to gather footage of beaver dam extent at Simian Creek downstream of Cedar Lake; use footage to create a plan for beaver dam management to lower water levels in Cedar Lake to support wild rice	Data	WBIF	1 management plan completed	Simian Creek	Fond du Lac/ Carlton County	x					\$5,000

Maintain current acre/feet of watershed storage by restoring wetlands in identified priority areas where they have been lost and/or altered due to ditching or development activities.

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Using the Stoney Brook hydrology model, restore two obsolete ditch laterals to original stream channel	C	WBIF / Other	2 projects	Stoney Brook	Fond du Lac				x	x	\$250,000

Protect & manage 11 acres of private owned forests in areas that protect surface water, drinking/groundwater water quality and riparian habitat.

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Restore 11 acres of cedar swamp at Martin Branch (Stevens Road).	C	WBIF / Other	11 acres restored	Martin Branch	Fond du Lac				x	x	See Martin Branch stream channel project costs

Identify and manage 5 acres of high priority sites/resources for invasive species.

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Conduct 5-acre black ash understory planting in wild rice headwaters	C	WBIF	5 acres planted	Wild rice lakes	Fond du Lac		x			x	\$40,000
Conduct buckthorn and Honeysuckle removal on 5 acres near Simian Lake	C	Other	5 acres of treatment	Simian Lake	Fond du Lac	x			x		\$25,000
Complete 2 mailings to Lakeshore landowners about Chinese Mystery Snail @ Simian and West Twin Lake	E&O	Other	2 mailings	West Twin Lake	Fond du Lac	x		x			\$500

1000 feet of shoreline in prioritized lakes and streams have natural buffers and near shore areas are protected and restored to reduce erosion using bank stabilization, bioengineering, etc. techniques..

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Conduct 2 training events at Big Lake to teach landowners about natural shorelines	E&O	WBIF	2 events	Big Lake	Fond du Lac / Carlton SWCD, County			x		x	\$5,000
Complete 5 shoreline projects	Conservation	WBIF	5 shoreline projects completed	Big Lake, wild rice waters	Carlton SWCD / FDL, Carlton County						

Protect/Restore 2 high priority wild rice stands/populations (water levels, disturbance, shoreland development).

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Dredge 62 feet of ditch downstream of Deadfish Lake to reduce wild rice loss due to backwater effects	C	WBIF	Resorted wild rice	Deadfish Lake	Fond du Lac				x	x	See ditch laterals project costs
Create design plans based off the Army Corps watershed model and remove the beaver dam on Simian Creek downstream of Cedar Lake and dredge 3500 feet of blocked channel at the outlet of Cedar Lake to lower water levels to support wild rice	C	Other	1 Project designed and implemented	Cedar Lake, Simian Creek	Fond du Lac		x	x			\$150,000
Restore wild rice at Cedar Lake after restoration activities completed to lower lake level	C	Other	1 wild rice restoration project	Cedar Lake	Fond du Lac					x	\$1000