

LPT71821 INTERIM REPORT NOVEMBER 2022

Deer Lake Conservancy

Homeowner projects installed on two Deer Lake properties included one native planting, one rock diversion, and four rain gardens. Cheryl Clemens, Executive Director, completed designs and supervised construction for these projects. All projects installed on private property and not listed as Healthy Lakes projects have operation and maintenance agreements of 20 years registered with their property deed. Permits were secured where needed prior to construction.

Two basins were installed to capture runoff from a farm field prior to entering the Watershed 1 North Pond. This pond is directly connected to Deer Lake by an intermittent stream. Polk County Land and Water Resources Department Engineering Technician Karsten Petersen completed project designs and supervised construction.

Inspections of large-scale BMPs on Deer Lake Conservancy and private property were completed in 2022. We used our operations and maintenance manual to guide BMP inspections. Maintenance which included removing trees and shrubs from basin berms and repairing outlet structures is not included in the reimbursement request.

The Deer Lake Conservancy continued Walk and Learn events on Deer Lake Conservancy properties in 2022. Brian Collins led a walk featuring the birds of the Johnson Preserve. Nikki Henger led a walk teaching about trees and identification. We learned about trumpeter swans from retired DNR biologist Pat Manthey.

A volunteer committee developed a shoreland educational strategy. A highlight of the strategy is recognizing owners who have installed BMPs and those who have natural shorelines, with a shoreline marker in the shape of a heron. We distributed the markers at the Flagstad Farm annual picnic, and directly to homeowners in following months. The 2021 shoreland inventory provided a starting point in identifying eligible natural shorelines, and these sites were verified in case changes had occurred since the inventory. Follow-up inspections will be required prior to awarding the marker for projects installed prior to 2017. These inspections will be offered in 2023.

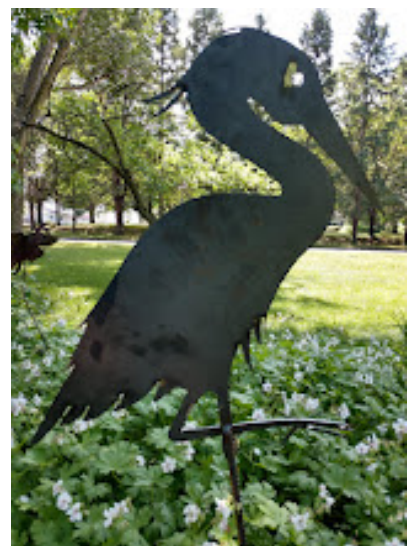


Table 1. Best Management Practices Installation Summary

Owner	BMP	Date Installed	Cost	N Reduction (lb/yr)	P Reduction (lb/yr)	Sediment Reduction t/yr
Lagus	Native Planting		\$758			
Gartland	Rain Gardens (4) and Rock Diversion (1)	June 2022	\$20,627.50			
DLC	Watershed 1 Basin 1	October 2022	\$14,332.50	88.5	32.9	25.8
DLC	Watershed 1 Basin 2	October	\$15,090	64.1	23.9	18.8

Lagus - Native Planting (10X35)



Lagus

Before: June 2022



Lagus

After: August 2022

Gartland –Rain Garden 1



*Gartland RG1
Before: 5/26/2022*



*Gartland RG1
After: 8/17/2022*



Gartland RG2
Before: 5/18/2021



Gartland RG2
After: 08/17/2022



Gartland - Rain Garden #3

Before: 5/25/2022



Gartland - Rain Garden #3

After: 8/17/2022



Gartland - Rain Garden #4

Before: 05/26/2022



Gartland - Rain Garden #4

After: 08/27/2022



Gartland Diversion
Before 5/18/2021



Gartland Diversion
After: 8/17/2022

Watershed 1 Basins



*Basin 1 Before:
March 2021*



Basin 1 After: 10/17/2022

