

Deer Lake Conservancy Watershed 1 North Pond Property - Modeled by STEPL (Spreadsheet Tool for the Estimation of Pollutant Load)

Input data collected and modeled by Karsten Petersen

6.21.22

Watershed	N Load (no BMP)	P Load (no BMP)	BOD Load (no BMP)	Sediment Load (no BMP)	N Reduction	P Reduction	BOD Reduction	Sediment Reduction	N Load (with BMP)	P Load (with BMP)	BOD (with BMP)	Sediment Load (with BMP)	%N Reduction	%P Reduction	%BOD Reduction	%Sediment Reduction
	lb/year	lb/year	lb/year	t/year	lb/year	lb/year	lb/year	t/year	lb/year	lb/year	lb/year	t/year	%	%	%	%
W1	107.3	38.8	215.8	30.0	88.5	32.9	181.5	25.8	18.8	5.9	34.3	4.3	82.5	84.8	84.1	85.7
W2	112.2	40.6	225.7	31.4	64.1	23.9	120.0	18.8	48.1	16.6	105.7	12.6	57.1	59.0	53.2	59.8

Watershed 1 was modeled to have a BMP of a "**Extended Wet Pond**" that would address 100% of water runoff within watershed during the design storm

Watershed 2 was modeled to have a BMP of a "**Wet Pond**" that would address 100% of water runoff within watershed during the design storm

BMP efficiency and reduction percentages are estimates based on data from STEPL. Both BMP classifications used are taken from primarily urban runoff structure data but can be applied with reasonable accuracy to each of these primarily cropland situations. Percentage reductions