
Appendix M

Project Screening

	Short Term				Long Term			
	Load Reduction Goal	Load Reduction	Cost	Annual Cost per pound TP Reduction	Load Reduction Goal	Load Reduction	Cost	Cost per pound TP reduction
Lake Name	(lb)	(lb)	(\$)	[\$/lb]	(lb)	(lb)	(\$)	[\$/lb]
Moody	880	950	\$ 1,900,000	\$ 160	880	1000	\$ 1,900,000	\$ 150
Bone	570	630	\$ 2,300,000	\$ 290	790	860	\$ 4,700,000	\$ 440
Birch	450	330	\$ 1,000,000	\$ 240	450	400	\$ 1,000,000	\$ 200
School	460	240	\$ 3,800	\$ 1	460	310	\$ 3,800	\$ 1
Little Comfort	630	600	\$ 1,800,000	\$ 240	810	690	\$ 3,700,000	\$ 430
Sylvan	0	0	\$ -	\$ -	0	0	\$ -	\$ -
Shields	910	790	\$ 2,400,000	\$ 240	1000	790	\$ 2,400,000	\$ 240
Forest Lake East	110	140	\$ 500,000	\$ 290	710	810	\$ 3,200,000	\$ 310
Forest Lake Center	0	210	\$ 450	\$ 0	430	430	\$ 2,000,000	\$ 370
Forest Lake West	0	0	\$ -	\$ -	62	0	\$ -	\$ -
Comfort	310	320	\$ 2,800	\$ 1	930	930	\$ 2,000,000	\$ 170
TOTAL:	4,300	4,200	\$ 9,800,000	\$ 190	6,500	6,200	\$ 21,000,000	\$ 270

Moody Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative		Short Term	Long Term	Total Present Value	TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Upstream Lakes		N/A		N/A				
Internal	In-Lake Alum Treatment	260		\$ 88,000	4	\$ 88,000	260	\$ 88,000
	Rough Fish Management			\$ 100,000		\$ 100,000		\$ 100,000
	Curly Leaf Pondweed Management			\$ 190,000		\$ 190,000		\$ 190,000
Watershed Management	BMPs	93	150	\$ 1,600	93	\$ 1,600	150	\$ 1,600
	Ponds	290		\$ 9,300,000				
	Wetlands	0		\$ -				
	Infiltration	580		\$ 9,500,000				
	Chemical treatment of tributaries - NBL19	600		\$ 1,500,000	600	\$ 1,500,000	600	\$ 1,500,000
Total Load Reduction and Present Value (excl. upstream costs) =					950	\$ 1,900,000	1000	\$ 1,900,000
Total Load Reduction Goal =					880	\$ -	880	\$ -

Bone Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative		Short Term	Long Term	Total Present Value	TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Upstream Lakes (Moody)		160	180	\$ 1,900,000	160	\$ 1,900,000	180	\$ 1,900,000
Internal	In-Lake Alum Treatment	90		\$ 430,000	4	\$ 430,000	90	\$ 430,000
	Rough Fish Management			\$ 100,000		\$ 100,000		\$ 100,000
	Curly Leaf Pondweed Management			\$ 730,000		\$ 730,000		\$ 730,000
Watershed Management	BMPs	81	130	\$ 7,700	81	\$ 7,700	130	\$ 7,700
	Pond - SBL07	200		\$ 5,000,000				
	Infiltration - SBL38	160		\$ 2,500,000			160	\$ 2,500,000
	Infiltration - SBL07	300		\$ 5,000,000				
	Shoreline restoration	0		\$ 600				
	Chemical treatment of tributaries - SBL07	300		\$ 1,000,000	300	\$ 1,000,000	300	\$ 1,000,000
Total Load Reduction and Present Value (excl. upstream lake costs) =					630	\$ 2,300,000	860	\$ 4,700,000
Total Load Reduction Goal =					570	\$ -	790	\$ -

Birch Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative		Short Term	Long Term	Total Present Value	TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Upstream Lakes (Bone)		97	140	\$ 2,300,000	97	\$ 2,300,000	140	\$ 2,300,000
Internal	In-Lake Alum Treatment	0		\$ -	4			
	Rough Fish Management	0		\$ -				
	Curly Leaf Pondweed Management	0		\$ -				
Watershed Management	BMPs	32	54	\$ 3,000	32	\$ 3,000	54	\$ 3,000
	Wetland Rest. / Mod. - LCL15-27	200		\$ 1,000,000	200	\$ 1,000,000	200	\$ 1,000,000
	Ponds	0		\$ -				
	Infiltration	0		\$ -				
	Shoreline restoration	0		\$ -				
	Chemical treatment of tributaries	0		\$ -				
Total Load Reduction and Present Value (excl. upstream costs) =					330	\$ 1,000,000	400	\$ 1,000,000
Total Load Reduction Goal =					450	\$ -	450	\$ -

School Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative								
Upstream Lakes (Birch)		190	230	\$ 1,000,000	190	\$ 1,000,000	230	\$ 1,000,000
Internal	In-Lake Alum Treatment	0		\$ -	4			
	Rough Fish Management	0		\$ -				
	Curly Leaf Pondweed Management	0		\$ -				
Watershed Management	BMPs	45	74	\$ 3,800	45	\$ 3,800	74	\$ 3,800
	Wetland Rest. / Mod.	0		\$ -				
	Ponds	0		\$ -				
	Infiltration	0		\$ -				
	Shoreline restoration	0		\$ -				
	Chemical treatment of tributaries	0		\$ -				
Total Load Reduction and Present Value (excl. upstream costs) =					240	\$ 3,800	310	\$ 3,800
Total Load Reduction Goal =					460	\$ -	460	\$ -

Little Comfort Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative		Short Term	Long Term	Total Present Value	TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Upstream Lakes (School)		100	130	\$ 3,800	100	\$ 3,800	130	\$ 3,800
Internal	In-Lake Alum Treatment	40		\$ 54,000	40	\$ 54,000	40	\$ 54,000
	Rough Fish Management			\$ 22,000		\$ 22,000		\$ 22,000
	Curly Leaf Pondweed Management			\$ 8,200		\$ 8,200		\$ 8,200
Watershed Management	BMPs	23	40	\$ 450	23	\$ 450	40	\$ 450
	Wetland Rest. / Mod. - LCL07	200		\$ 1,000,000	200	\$ 1,000,000	200	\$ 1,000,000
	School Lake Outlet Modification			\$ 100,000		\$ 100,000		\$ 100,000
	Pond - LCL 49	48		\$ 1,900,000			48	\$ 1,900,000
	Chemical treatment of tributaries	230		\$ 600,000	230	\$ 600,000	230	\$ 600,000
Total Load Reduction and Present Value (excl. upstream costs) =					600	\$ 1,800,000	690	\$ 3,700,000
Total Load Reduction Goal =					630	\$ -	810	\$ -

Sylvan Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative								
Upstream Lakes		N/A	N/A	N/A				
Internal	In-Lake Alum Treatment							
	Rough Fish Management							
	Curly Leaf Pondweed Management							
Watershed Management	BMPs							
	Wetland Rest. / Mod.							
	Pond							
	Infiltration							
	Chemical treatment of tributaries							
Total Load Reduction and Present Value (excl. upstream costs) =					0	\$ -	0	\$ -
Total Load Reduction Goal =					0		0	

Shields Lake		Reduction		Total Present Value	Short Term		Long Term	
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Alternative		Short Term	Long Term	Total Present Value	TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value
Upstream Lakes								
Internal	In-Lake Alum Treatment (5-yr)	620		\$ 130,000	620	\$ 130,000	620	\$ 130,000
	Rough Fish Management			\$ 100,000		\$ 100,000		\$ 100,000
	Curly Leaf Pondweed Management			\$ 98,000		\$ 98,000		\$ 98,000
Watershed Management	BMPs	5	8	\$ 450	5	\$ 450	8	\$ 450
	Bio-manipulation	100		\$ 500,000	100	\$ 500,000	100	\$ 500,000
	Pond - FL61	60		\$ 1,600,000	60	\$ 1,600,000	60	\$ 1,600,000
	Chemical treatment of tributaries	0		\$ -				
	Infiltration	0		\$ -				
Total Load Reduction and Present Value (excl. upstream costs) =					790	\$ 2,400,000	790	\$ 2,400,000
Total Load Reduction Goal =					910	\$ -	1000	\$ -

Forest Lake East		Reduction		Total Present Value	Short Term		Long Term		
		Short Term	Long Term		TP Load Reduction (lb)	Total Present Value	TP Load Reduction (lb)	Total Present Value	
Alternative									
Upstream Lakes (Sylvan)				\$ -		\$ -		\$ -	
Internal	In-Lake Alum Treatment	180		\$ 1,500,000			180	\$ 1,500,000	
	Rough Fish Management			\$ -					
	Curly Leaf Pondweed Management			\$ -					
Watershed Management	BMPs	50	98	\$ 450	50	\$ 450	98	\$ 450	
	Wetland Rest. / Mod. - FL44	220		\$ 1,000,000					
	Pond - FL44	220		\$ 4,200,000					
	Chemical treatment of trib. - FL44	450		\$ 1,200,000			450	\$ 1,200,000	
	Chemical treatment of trib. - FL71	90		\$ 500,000	90	\$ 500,000	90	\$ 500,000	
Total Load Reduction and Present Value (excl. upstream costs) =					140	\$ 500,000	810	\$ 3,200,000	
Total Load Reduction Goal =					110	\$ -	710	\$ -	