2025 Project Planning

Recommended General Project Approach

- We are on the home stretch of our in-lake water quality goals.
- We achieved the 80% of water quality results with the very best 20% of projects.
- As we work toward the last 20% of water quality results, we start to dip into the 80% of projects available, which may have a lower cost-benefit and may be more difficult/complicated to implement (all the low hanging fruit has been picked). Flood mitigation and greenway corridor projects are among many other possibilities within this "80%" pool – even though their main benefit might be storage, they will also provide water quality benefits similar to our past projects.
- The following pages provide a brief, high level summary of the project implementation and water resource protection plan for 2025 and beyond.
- Most District programs are not detailed or quantified here, but continued implementation of a wide variety of programs will serve to protect the water quality improvements that have been made.
- As we get closer to closing the chapter on TMDL Reductions, we are looking ahead to the next chapter of Climate Change Resiliency, Flood Mitigation, and Projects with Multiple Benefits
- This next chapter will look different from the last chapter. The last chapter was defined by diagnostic studies and a highly targeted nutrient reduction approach. This next chapter will be best served by weighing multiple benefits (e.g., phosphorus and sediment reductions are one factor, and flood mitigation will be an increasing factor for cost-benefit evaluation). We are still targeting our work, but the targeting approach is different.

Recommended Approach to Grants

- Grants have always been key to the District's ability to implement projects, and they will continue to be critical moving forward.
- The District has been highly successful in grant seeking over the last decade, winning $9.3 million from 2010-2023, being the largest winner of Clean Water Fund Projects & Practices grant awards state-wide from 2014-2024, as well as tapping into a wide array of grant programs (successful with 20 different programs to date, and have applied to an additional 12 programs unsuccessfully or still pending).
- Despite the District's successful track record, grants are not guaranteed revenue.
- Recommended approach: approve a balanced budget with the high probability revenues we know of (levy, interest, awarded grants, recurring consistent small grant programs). Budget for anticipated match expenditures.
- If/when we win grants, amend the budget to incorporate those revenues and associated expenses. The District will seek overlapping grants in order to minimize its local match. Note that many grant programs include a requirement that grant funds not supplant available local funding.

Little Comfort Lake

Phosphorus Reduction Goal: 839 lbs
Progress Toward Goal: 60%

Little Comfort Lake Headline

Multiple projects still needed to achieve WQ goal. Several are in progress/planned. We have run into barriers with some projects from diagnostic study, and we are adapting. Projects result in multiple benefits (e.g., sediment). Shoreline buffers needed to maintain WQ improvements.

Phosphorus Load Reduction Goal and Progress Made (multiple other benefits have been achieved and are being tracked as well such as sediment/nitrogen)				
Completed Total				503 lb/yr
In Progress Total				125 lb/yr
Planned Total				211 lb/yr
Total Load Reduction to Meet Goal				**839 lb/yr**
Completed	Upstream Improvements	Upstream improvements have resulted in significant water quality improvements compared to baseline	Past	503 lb/yr
In Progress	July Ave Feedlot	Grant awarded. Will have larger improvement for School Lake (~65 lb/yr)	2025	~45 lb/yr
In Progress	Heath Ave IESF	TBD pending landowner purchase agreement and FY25 CWF grant	2025	80 lb/yr
Planned/ Ongoing	Shoreline Program	Comprehensive program will result in multiple benefits	Ongoing	TBD
Planned	July Ave Degraded Wetlands	Restore wetlands downstream of feedlot after feedlot project is complete	TBD	TBD
Planned	Ag BMPs/Livestock Mgmt	Various locations upstream in Little Comfort LMD; landowner outreach in progress	TBD	TBD
Planned	School Lake Inlet/Outlet Channels	Investigating further through monitoring program	TBD	TBD
Planned	Little Comfort Alum Treatment	Re-evaluate internal load after making more progress on external load	TBD	TBD

Resources

Implementation Plan

The Comfort and Little Comfort's Implementation Plan has three major objectives:

1. **Little Comfort Lake TP Reduction:** Improve the in-lake water quality of Little Comfort Lake through implementation of TP reduction practices in the Heath Avenue inlet drainage area, the Itasca Avenue inlet downstream of School Lake, and to reduce internal loads.
2. **Comfort Lake TP Reduction:** Improve the in-lake water quality of Comfort Lake through improvement of Little Comfort Lake water quality and implementation of TP reduction practices in the Sunrise River inlet drainage area.
3. **Stormwater Treatment:** Reduce sediment loading by increasing water storage in the Comfort LMD through regional stormwater treatment projects and enhancement of wetlands along the Sunrise River corridor.

Table 2-33. Comparison of the Little Comfort and Comfort Lakes TP Reduction Scenarios

Lake	Total Phosphorus (TP) Source	Scenario 1: Little Comfort at 30 µg TP/L		Scenario 2: Little Comfort at 33 µg TP/L		Scenario 3: Little Comfort at 40 µg TP/L	
		TP Reduction (lb./yr.)	*% Total Reduction Needed*	*TP Reduction (lb./yr.)*	*% Total Reduction Needed*	*TP Reduction (lb./yr.)*	*% Total Reduction Needed*
Little Comfort Lake	Direct drainage	1	*0.3%*	1	*0.3%*	0	--
	Itasca Avenue inlet	205	*56%*	159	*50%*	50	*27%*
	Heath Avenue inlet	102	*28%*	102	*32%*	75	*41%*
	Internal load	59	*16%*	59	*18%*	59	*32%*
	TOTAL	**366**		**320**		**183**	
Comfort Lake	Direct drainage	26	*14%*	27	*14%*	26	*13%*
	Sunrise River inlet at W. Comfort Dr.	31	*16%*	52	*27%*	104	*54%*
	Little Comfort Lake	136	*70%*	114	*59%*	64	*33%*
	TOTAL	**193**		**193**		**193**	

- https://www.clflwd.org/wp-content/uploads/2022/11/Comf_Diag_Update_5-19-2021_FINAL.pdf#page=14
- https://www.clflwd.org/wp-content/uploads/2022/11/Comf_Diag_Update_5-19-2021_FINAL.pdf#page=94
- https://www.clflwd.org/wp-content/uploads/2023/07/2022-03-24_Presentation_TSS-Loading-Analysis.pdf

Comfort Lake

Phosphorus Reduction Goal: 825 lbs
Progress Toward Goal: 85%

Comfort Lake Headline

Several projects completed, in progress, and planned. Water quality is good, and sediment loading levels are within range for a lake like this. Monitoring is ongoing to keep track of threats to Big Comfort and Little Comfort. Shoreline buffers needed to maintain WQ improvements.

Phosphorus Load Reduction Goal and Progress Made (multiple other benefits have been achieved and are being tracked as well such as sediment/nitrogen)				
Completed Total				697 lb/yr
In Progress Total				64-136 lb/yr
Planned Total				64+ lb/yr
Total Load Reduction to Meet Goal				**825 lb/yr**
Completed	Stormwater Permits	Permitting program has resulted in water quality improvements b/c of required stormwater BMPs	Past	28 lb/yr
Completed	Broadway IESF	Iron enhanced sand filter	Past	15 lb/yr 683 lb/yr TSS
Completed	Enhanced Street Sweeping	City of FL partner program	Past	37 lb/yr 683,407 lb/yr TSS
Completed	Bixby Park	Wetland enhancement	Past	93 lb/yr 5,546 lb/yr TSS
Completed	Target Retrofits	IESF, tree trenches	Past	5 lb/yr
Completed	Hwy 61/Sunrise River/Tax Forfeit	Wetland enhancement	Past	65 lb/yr 18,630 lb/yr TSS
Completed	Upstream Improvements	In addition to projects in this LMD, upstream improvements have resulted in significant water quality improvements compared to baseline	Past	460 lb/yr
In Progress	Little Comfort Lake Improvements	Diagnostic study provided scenarios ID'ing Little Comfort Lake as a high priority means to improving Comfort Lake. Varying load reductions based on varying improvements to Little Comfort	2025+	64-136 lb/yr
Planned/ Ongoing	Shoreline Program	Comprehensive program will result in multiple benefits	Ongoing	TBD
Planned	City of FL Regional Treatment Facility	Led by City of FL, supported by CLFLWD	TBD	TBD
Planned	Volume Control Facility, Flood Mitigation, Greenway Corridor	Targeting in progress through Floodplain Vulnerability Assessment. Comfort LMD is a likely implementation area, pending prioritization discussions.	TBD	TBD
Planned	Shallow Pond Impoundment	Addressing other upstream improvements in the watershed first. This project would impact many landowners, require multiple easements/ landowner agreements, and require 10+ years of landowner outreach. Add to 2025 staff work plan – further landowner engagement w/ staff.	TBD (Long-range)	TBD

Resources

(See also Little Comfort resources above)

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Little Comfort Lake	Direct drainage	1	*0.3%*	1	*0.3%*	0	--
	Itasca Avenue inlet	205	*56%*	159	*50%*	50	*27%*
	Heath Avenue inlet	102	*28%*	102	*32%*	75	*41%*
	Internal load	59	*16%*	59	*18%*	59	*32%*
	TOTAL	**366**		**320**		**183**	
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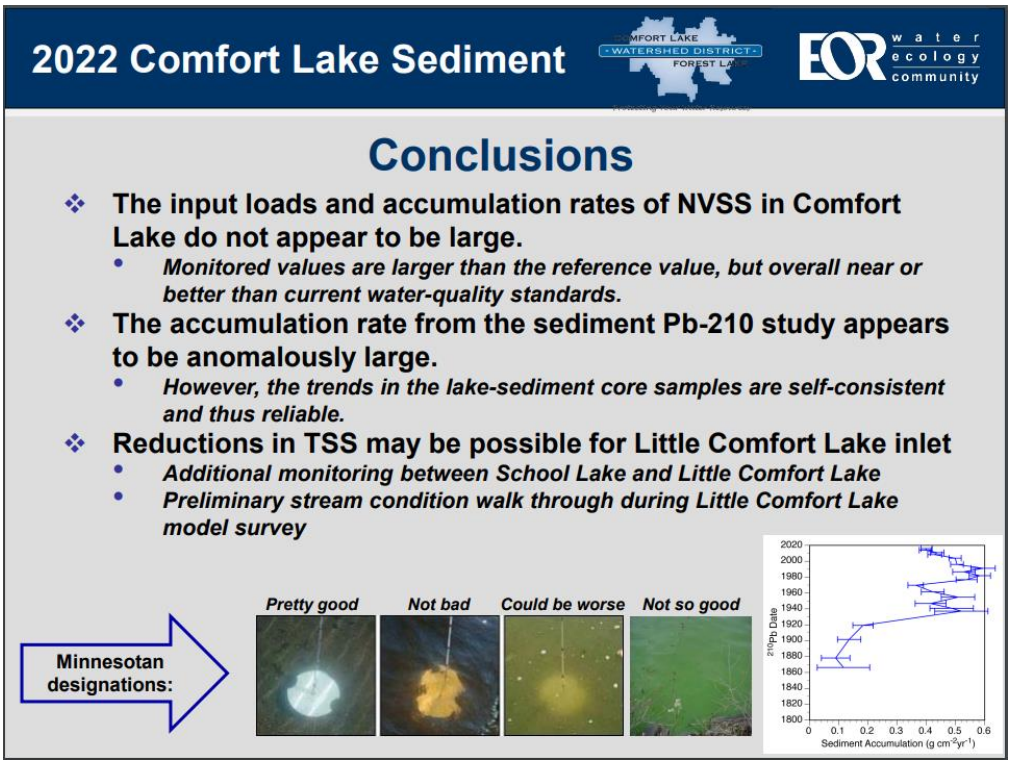
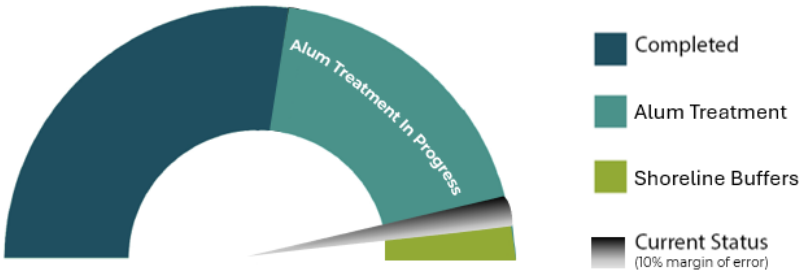
	TOTAL	**193**		**193**		**193**	



Forest Lake



Phosphorus Reduction Goal: 1,450 lbs
Progress Toward Goal: 56% before alum, 93% after alum

Forest Lake Headline
Forest Lake is very close to its goals, and the completion of the alum treatment will all but cross the finish line toward the goals. Shoreline buffers and flood mitigation strategies in the watershed will serve to protect the WQ improvements the District has achieved.

Phosphorus Load Reduction Goal and Progress Made (multiple other benefits have been achieved and are being tracked as well such as sediment/nitrogen)				
Completed Total				823 lb/yr
In Progress Total				527 lb/yr
Planned Total				100 lb/yr
Total Load Reduction to Meet Goal				**1,450 lb/yr**
Completed	Shields Lake Improvements	Carp barrier, aerator, stormwater reuse, alum treatment	Past	531 lb/yr
Completed	Smaller BMPs	Cumulative of multiple BMPs from permits, partners, and cost-share incentives	Past	35 lb/yr
Completed	Hilo Lane	Iron enhanced sand filter	Past	12 lb/yr
Completed	3rd Lake Pond	Wetland restoration	Past	56 lb/yr 1,696 lb/yr TSS
Completed	Enhanced Street Sweeping	City of FL partner program	Past	72 lb/yr 190,824 lb/yr TSS
Completed	CR50 IESF	Iron enhanced sand filter	Past	97 lb/yr 3,000 lb/yr TSS
Completed	WJD-6 Wetland	To be completed in 2024	Past	20 lb/yr
In Progress	City Regional Treatment Facilities	North Shore Trail stormwater treatment basins in progress.	2024	TBD
In Progress	Forest Lake Alum Treatment	First dose in 2023, monitoring in 2024, second dose in 2025	2025	527 lb/yr
Planned	Volume Control Facility, Flood Mitigation, Greenway	Likely to benefit Forest Lake as well as Comfort Lake, pending prioritization discussions	TBD	TBD
Planned/ Ongoing	Shoreline Program	Comprehensive program will result in multiple benefits. Forest Lake water quality is good and very close to goal – achieving additional 100 lb/yr (7%) will further ensure WQ is protected. Standard margin of error for TMDL load reductions is 10% (after the alum treatment, we will be within the 10% range)	Ongoing	TBD

Bone Lake

Phosphorus Reduction Goal: 786 lbs
Progress Toward Goal & State Standards: 100%

Bone Lake Headline
Improvements made and has been de-listed for nutrient impairment as of April 2024! Ongoing programs and future efforts will serve to protect the water quality investments the District and local citizens have made. Shoreline buffers needed to maintain WQ improvements.

Phosphorus Load Reduction Goal and Progress Made (multiple other benefits have been achieved and are being tracked as well such as sediment/nitrogen)				
Completed Total				821 lb/yr
In Progress Total				0 lb/yr
Planned Total				TBD lb/yr
Total Load Reduction to Meet Goal				**786 lb/yr**
Completed	Upstream and Other Watershed Improvements	Upstream/watershed improvements over the years have resulted in significant water quality improvements compared to baseline. Moody Lake improvements, carp removal, carp barriers.	Past	651 lb/yr
Completed	Agricultural Best Management Practices	Cumulative of multiple BMPs from ag BMP incentives	Past/ Ongoing	117 lb/yr 204,893 lb/yr TSS
Completed	Melanie Trail BMPs	Partnership project w/ City of Scandia	Past	2 lb/yr
Completed	Southeast Drained Wetland Restorations	Wetland restorations (“DCB” properties)	Past	35 lb/yr 324,640 lb/yr TSS
Completed	Northeast Legacy Wetland Restoration	Wetland restoration (estimated 15-20 lb/yr reduction)	Past	15 lb/yr
Planned	Volume Control Facility, Flood Mitigation, Greenway Corridor	Pending prioritization discussions. One ongoing greenway effort is the Bone Lake South Acquisition and potential future Wetland Restoration which will provide multiple benefits, further protecting Bone Lake’s WQ improvements.	TBD	TBD
Planned/ Ongoing	Shoreline Program	Comprehensive program will result in multiple benefits.	Ongoing	TBD