2013





[2013 PROJECT INSPECTION REPORT]

The mission of the Clearwater River Watershed District is to promote, preserve, and protect water resources within the boundaries of the district in order to maintain property values and quality of life as authorized by MS 103D.

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Summary

This 2013 Project Inspection Report serves to provide an overview of existing District projects and their operational and maintenance needs. The projects were inspected by Dennis Loewen and Cole Loewen in May and June of 2013.

The Project Inspection Table (next page) contains the inspection results and recommendations of maintenance activities with estimated costs. The included figures show where a previously noted maintenance activity is located, and its potential design. The photographs show existing conditions for select projects.

Maintenance work is recommended at: the Annandale Wetland Treatment System, Kingston Wetland Treatment System, Watkins Wetland Treatment System, the District's Aerator Buildings, Hidden River Sewer System, Rest-A-While Sewer System, Clearwater Harbor Sewer System, Swartout Lake Inlet and Outlet Fish Barriers, Illsley Avenue Fish Barrier, and Segner Pond. Optional maintenance work is included for: the Watkins Wetland Isolation Project, Watkins Wetland Treatment System, Highway 55 Fish Trap, Lake Augusta Erosion Control Project, School Section Lake Outlet Control Project, Pleasant Lake Outlet Control Project, Kimball Stormwater Phase I, Rest-A-While Sewer System, Henshaw Lake Outlet Fish Barrier, Swartout Lake Outlet Fish Barrier, and Segner Pond Fish Barrier.

Staff Hours Fund **Recommend or Other Costs** Outside Optional Contractor 203 Optional 6 \$300 206 Optional \$30,000 210 80 \$3,000 \$8,000 Recommended 210 \$1,850 Optional 86 215 44 \$4,000 Recommended \$2,300 215 Optional 40 610 16 \$2,400 Recommended 620 Recommended 8 \$300 6 620 Optional \$500 630 Recommended \$600 12

The table below lists the estimated costs for recommended and optional maintenance activities based on respective funds.

Total estimated costs to undertake all recommended maintenance work is 160 hours and \$18,300. Total estimated costs to undertake all optional maintenance work is 138 hours and \$34,950.

Project Inspection Table

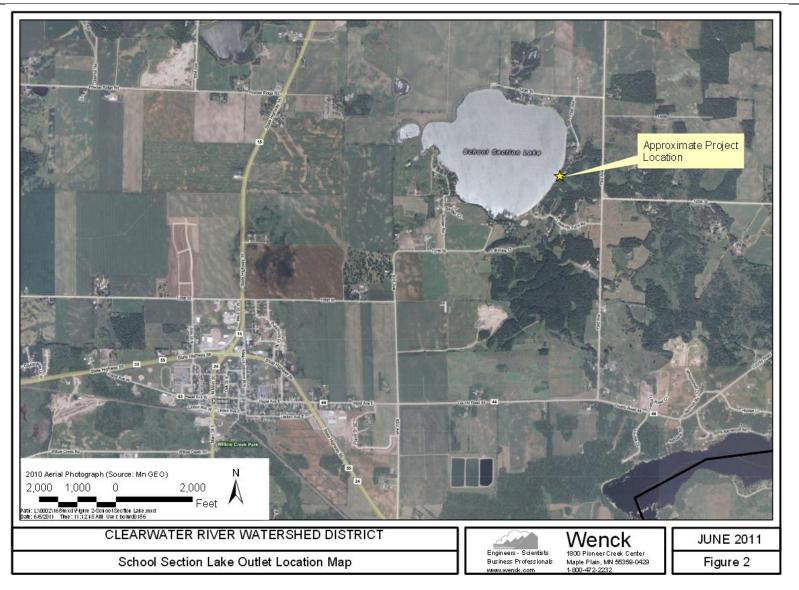
Project	Recommended	Optional	No Action Now	Estimated Cost
Annandale Wetland Treatment	System (not inspected	l for this report	t, tasks are from 2012	report)
1. Clean debris from ports	✓			Maintenance -16 hrs + \$300 for equipment
2. Outlet structure in good condition.			√	
Kingston Wetland Treatment Sy	(See Photo 1)			
1. Remove sediment in diversion channel basin	✓			\$8,000
2. Existing Berms are operating properly			✓	
3. Major O&M work recently completed			✓	
Upper Watkins Wetland Isolation	on Project (North) (Se	ee Photo 2)		
1. Berms are in good condition			✓	
2. Wood isolation structures are in good condition			√	
3. Clear brush/trees growing on and around berms		\checkmark		Maintenance -24 hours + \$300 materials
4. Treatment of noxious weed (as needed)	\checkmark			Maintenance - 12 hours + \$300 materials
Watkins Wetland Treatment Sy	stem (South) (see Pho	otos 3-5)		
1. Clean debris from ports	✓			Maintenance -24 hours + \$300 materials
2. Berms are in good condition			✓	
3. Repairs needed in fencing	✓			Maintenance -24 hours + \$500 materials
4. Clear brush/trees growing on and around berms		\checkmark		Maintenance -32 hours + \$400 materials

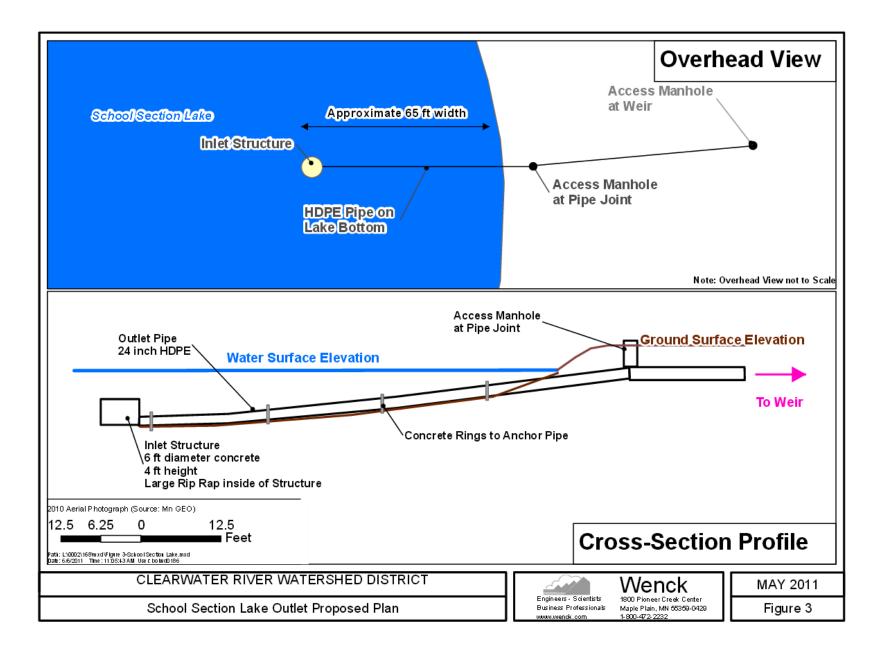
Project	Recommended	Optional	No Action Now	Estimated Cost
Nistler-Geislinger Basin				
1. Basin in good condition			✓	
Ostmark Basin	<u> </u>			1
1. Basin in good condition			✓	
Highway 55 Fish Trap (See Pho	oto 6)			
1. Improvements to fish trap		~		District will coordinate with commercial fisherman
Aerator Buildings (See Photos	7-8)			
1. Lake Augusta-Repair to soffits and eaves	~			District will coordinate repair-approximately \$1,500
2. Lake Marie- New coat of paint	~			Maintenance - 4 hrs. + \$100
Lake Augusta Erosion Control I	Project (See Photo 9)			·
1. Outlet and riser in good condition (slight lean in riser)			✓	
2. Inlet boxes are in okay condition			✓	
3. Repair bent portions of fence, clear brush/trees from fence		~		Maintenance - 6 hrs + \$300 for materials
Norton Ave Sediment Basin				
1. No maintenance needed			\checkmark	
Eddie Schultz Buffer			<u> </u>	
1. No maintenance needed			\checkmark	
Clear Lake North Inlet V-Notch	l			I
1. V-notch weir outlet structure in good condition			✓	
Clear Lake South Inlet Notch	II		L	I
1. Notch weir outlet structure in good condition			✓	
2. Sand-Iron Filter in good condition			✓	
School Section Lake Outlet Pro	ject (See Photo 10 an	d Figures 2 and	13).	
1. Proposed alterations to outlet		\checkmark		\$30,000

Project	Recommended	Optional	No Action Now	Estimated Cost
Pleasant Lake Outlet Project (Se	ee Photo 11)		·	·
1. Repairs to wood structure		\checkmark		Maintenance - 6 hrs + \$300 for materials
Kimball Stormwater Phase I			1	1
1. No maintenance necessary (City of Kimball covers)			✓	
2. Add additional plantings and clean up rain garden		\checkmark		Maintenance - 24 hrs + \$850 for plantings
Hidden River Wastewater Treat	ment System (See Pl	noto 12)		
1. Summer weed control and ditch mowing	\checkmark			Maintenance- 8 hrs + \$300 for equipment
2. Pump 9 individual septic tanks as required by schedule	\checkmark			Contract Pumper: Estimated \$1,600
3. Remove brush/trees growing inside fence	\checkmark			Maintenance- 4 hrs + \$300 for equipment
4. Repair broken sections of fence	\checkmark			Maintenance- 4 hrs + \$200 for materials
Rest-a-While Shores Wastewate	er Treatment System	(See Photos 13	-14)	
1. Fence off eroding hillside "trail," seed grass, place additional "No Trespassing" signs	~			Maintenance - 8 hours + \$300 materials
2. Remove debris piled on property		√		Maintenance - 6 hours + \$500 for hauling
Clearwater Harbor Wastewater	Treatment System			
1. Summer weed control and ditch mowing	✓			Maintenance- 8 hrs + \$300 for equipment
2. Remove brush/trees growing inside fence	\checkmark			Maintenance- 4 hrs + \$300 for equipment
Wandering Ponds Wastewater S	ystem		1	•
1. Rely on Bernie Miller report			✓	
Vergin Grass Waterway				
1. No maintenance necessary			\checkmark	
				ı

	Maintenance			
Project	Recommended	Optional	No Action Now	Estimated Cost
Henshaw Lake Outlet				
1. Fish barrier in good condition but needs to be moved to reduce bank erosion		\checkmark		Maintenance - 8 hrs + \$300 for equipment
Swartout Lake Fish Barriers (Se	e Photos 15-16)		1	
1. Barrier at outlet has undercut, needs to be repositioned due to change in outlet dam	~			District will coordinate repairs with grant work later this year
2. Barrier at inlet needs to be repositioned	~			Maintenance - 16 hrs + \$1,500 for equipment
3. Make alterations to fish barrier.		\checkmark		Maintenance - 16 hrs + \$1,000 for materials
Illsley Ave Fish Barrier (See Ph	otos 17-18)			
1. Place rip rap on wings of barrier to stop erosion of banks, replace temporary repair on western wing	~			Maintenance - 12 hrs + \$500
Segner Pond (See Photos 19-20)				
1.Diversion structure operating properly			\checkmark	
2.Add limestone to low spots in limestone berm	~			Maintenance - 16 hrs + \$2,000 for materials
3. Make alterations to fish barrier		\checkmark		Maintenance - 16 hrs + \$1,000

Figures





Select Photographs



1-Sediment in Kingston Wetland Diversion Channel Basin 2-Brush/Trees on Berm at Watkins Isolation Project



3-Example of Port at Watkins Wetland Treatment System

4-Missing Portions of Fence at Watkins Wetland Treatment System (TS)



5-Brush/Trees on Berm at Watkins Wetland TS



6-Highway 55 Fish Trap



7-Lake Augusta Aerator Building

8-Lake Marie Aerator Building



9-Bent Fencing at Lake Augusta Erosion Control Project

10-School Section Lake Outlet Damaged by Ice



11-Pleasant Lake Outlet Control Structure



12-Broken Fence at Hidden River Sewer System



13-Eroding Hillside "Trail" at Rest-A-While Shores Sewer 14-Debris Pile on Property inside Tree Line System



15-Swartout Lake Outlet Fish Barrier

16-Swartout Lake Inlet Fish Barrier



17-Eroding Bank at Illsley Ave Fish Barrier

18-(Left) Temporary Repair at Illsley Ave Fish Barrier



19-Segner Pond

20-Segner Pond Fish Barrier