Table 22. Action plan task descriptions. Timing and estimated costs of each task are in Table 23.

Task	Task Summary	Possible Funding	Possible Partners
Operating Expenses (per the SRWMO Joint Powers Agreement costs split equally among member cities)			
Secretarial or other administrative	Recording secretary hired to produce meeting agendas, minutes, and assist with minor administrative tasks. The estimated need is for 6 meetings per year.	SRWMO	
Administrator (On-call, limited)	On-call administrator for tasks outlined by contract. Tasks may include preparing budgets, seeking bids on work plans every other year, administering our cost share grants, correspondence, fielding questions or requests from agencies or residents, and others.	SRWMO	
Liability Insurance	Liability insurance, purchased through League of Minnesota Cities Insurance Trust in the past.	SRWMO	
Admin assistance - City of East Bethel	The City of East Bethel provides miscellaneous administrative services, such as serving as the SRWMO mailing address, keeping the SRWMO checkbook in their safe, and serving as a check signatory.	SRWMO	City of East Bethel
Non-Operating Administrative Expenses			
Financial Audit	Annual financial audit by an independent accountant.	SRWMO	
Legal	Legal counsel for miscellaneous issues is infrequently used but included in this projection.	SRWMO	
Annual Report to BWSR and member municipalities	Annual reporting to the MN Board of Water and Soil Resources required by MN Rules 8410.0150. The SRWMO enhances this report to also serve as an annual report to the member municipalities.	SRWMO	
Review municipal local water plans	Member municipalities must update their Local Surface Water Management Plans to be consistent with this plan within 2 years of SRWMO adoption and update ordinances within 180 days thereafter (MN Statutes 103B.235 subd. 4). The WMO will review and approve these plans (MN Statutes 103B.235 subd. 3) and ordinances required by the SRWMO Plan.	SRWMO	
Develop member community annual report template	The SRWMO depends upon the municipalities to fill some water protection and management roles, such as regulatory controls and maintenance. In order to facilitate communication and ensure tasks are being completed the SRWMO requires municipalities to submit an annual report to the SRWMO . The SRWMO will create a reporting form to simplify this task.	SRWMO	
Seek bids for services	"A WMO shall at least every two years solicit interest proposals for legal, professional, or technical consultant services before retaining the services of an attorney or consultant or extending an annual services agreement" (MN Statutes 103B.227, subd. 5).	SRWMO	
Grant search and applications	Several tasks in this plan will require outside funding. The SRWMO will annually review grant opportunities and prepare applications. Important grant sources include the MN DNR, MPCA, and BWSR (see their websites).	SRWMO	
Reevaluate this plan based on new TMDLs	Evaluate and potentially revise goals, policies, and/or actions in this plan related to water quality based on the results of the Lake St. Croix TMDL and Implementation Plan, and any other TMDLs.	SRWMO	
Update Watershed Plan (due Dec. 31, 2019)	Approximately 1-2 years before the expiration of this plan, the WMO will begin the plan update process.	SRWMO	

Task	Task Summary	Possible Funding	Possible Partners
Water Condition Monitoring			
Lake Level Monitoring (volunteer)	Lake elevations will be monitored with volunteer assistance on major recreational lakes. Professional staff will facilitate by installing and surveying lake gauges, coordinating volunteers such as by providing equipment and datasheets, troubleshooting problems, and receiving the data, checking its quality, and submitting it to state databases. Volunteers will take weekly readings. All data collected will be made publicly available through the Lakefinder portion of the MN DNR website. Lakes: Coon, Fawn, Linwood, Martin, and Typo.	SRWMO	ACD, DNR, volunteers
Lake Water Quality Monitoring (volunteer)	Transparency on major recreational lakes will be measured throughout the open water season with a secchi disk by volunteers. The SRWMO will recruit volunteers for Linwood, Typo, and Fawn Lakes, where none currently exist. Coon and Martin Lakes have volunteers. Once recruited, volunteers will be facilitated through the MPCA citizen lake monitoring program.	SRWMO	ACD, MPCA, volunteers
Lake Water Quality Monitoring (professional)	Past lake water quality will be continued, but on reduced frequency. Fawn, Linwood, Typo, and Martin will be monitored every third year starting in 2012. The east and west bays of Coon Lake will be monitored every other year starting 2010 (Fawn Lake also included in 2010). The schedule may be altered so monitoring occurs after water quality improvement projects. MPCA provides lake monitoring methods at http://www.pca.state.mn.us/publications/wq-s1-16.pdf provides methods. Minimum measurements will include total phosphorus, chlorophyll-a, and secchi transparency every other week May-September. A trend analysis consistent with those in Chapter 2 will be completed after each year of monitoring. All data will be submitted to MPCA's STORET database.	SRWMO	ACD
Stream Water Quality Monitoring	Stream monitoring will occur following water quality improvement projects at streams affected by that work, and the outlets from the watershed (West and South Branches of Sunrise River) will be monitored every third year (to keep our watershed models up to date). At a minimum, measurements will include stage, total phosphorus, total suspended solids, chlorides, pH, and turbidity. Eight to ten samples per year will be taken, half during baseflow and half following storms. All data will be submitted to the MPCA's STORET database.	SRWMO	ACD
Stream Hydrology Monitoring	Water levels will be recorded every two hours at the outlets of the watershed (West and South Branches of Sunrise River) every year to keep our watershed models up to date and to allow pollutant load calculations from water quality monitoring.	SRWMO	ACD
Reference Wetland Monitoring	Reference wetlands are an ACD program where hydrology is monitored in ~18 wetlands county-wide. Data are used by wetland regulators to understand local wetland hydrologies, ultimately resulting in more accurate regulatory decisions. The SRWMO will support continued monitoring of three reference wetlands in the watershed.	SRWMO	ACD
Monitoring of Water Quality Improvement Project Effectiveness	Streams or lakes that are the target of water quality improvement projects will be monitored to document the effectiveness of that work. The cost estimates in Table 20 are for monitoring one lake or stream site each year, however the timing, locations, and number of sites will be dependent upon the water quality improvement work done.	SRWMO, BWSR or MPCA grants, Martin Lake Assoc.	ACD

Task	Task Summary	Possible Funding	Possible Partners
Studies and Investigations			
Impaired Water TMDL Studies - Linwood Lake^	Several lakes and streams are on the state 303(d) list of impaired waters. The highest priority for a TMDL study is Linwood Lake. The study will involve extensive monitoring of the lake and inlets, study of possible phosphorus sources, modeling, calculation of phosphorus reductions needed to meet water quality standards, and strategies to reach this goal. The TMDL will be done only with funding partners, including the MN Pollution Control Agency.	SRWMO, MPCA grant (14),	MPCA, Linwood Lake Assoc.
Fawn Lake curly-leaf pondweed mapping and assessment of control needs	Curly-leaf pondweed, an exotic invasive plant was first noticed in Fawn Lake in 2007. The extent of the plant within the lake will be mapped. The purpose is to provide a baseline so in the future we can determine if the plant is expanding, as well as to determine if and when treatment is warranted.	SRWMO	Fawn Lake Residents
Water Quality Improvement Projects			
Cost Share Grant Fund	Competitive grants are awarded to landowners as an incentive to do projects that improve water quality. Cost share grants are 50-70% of materials and are currently administered by the Anoka Conservation District, along with other similar grants.	SRWMO	ACD
Martin and Typo Lakes carp barriers project	The purpose of the project is to improve water quality and habitat by reducing carp. Four carp barriers at strategic locations will reduce carp spawning success and overwintering survival by preventing seasonal migrations betweeen favorable overwintering habitat (Martin Lake) and spawning areas (Typo Lake and creek). Commercial carp harvests will also be used.	SRWMO, Martin Lakers Assoc, DNR Grant (secured)	DNR, MPCA, ACD, Martin Lakers Assoc., Linwood Twp, Isanti Co.
Discretionary water quality projects	Projects that will be defined through stormwater assessments, TMDL studies, and similar work will be accomplished in the first five years of this Watershed Management Plan's effective life. Martin, Typo, and Coon Lakes are likely focus areas, where there are know problems and diagnositic work is planned or underway.	SRWMO, grants	ACD, DNR, MPCA, lake assocs.
~~Martin and Typo Lakes Water Quality Projects~~	~~Completion of a TMDL study and implementation plan for Typo Lake, Martin Lake, and the stream connecting them is expected in late 2009. It will recommend projects for improving water quality. The SRWMO will be a lead agency completing some of these projects, working in cooperation with other agencies and residents. Projects and timing will be selected after the TMDL is complete. In addition to WMO funding, grants will be sought.~~	~~SRWMO, BWSR and MPCA grants, Martin Lake Assoc.~~	~~MPCA, ACD, Martin Lake Assoc., Isanti Co.~~
Stormwater Retrofit - reconnaissance and design phase	Storm water draining directly and untreated to waterbodies contributes pollutants. These types of drainages are most prevalent in older neighborhoods that were built before modern stormwater construction standards. This project includes locating untreated stormwater discharges to waterbodies and designing solutions. These solutions need to fit into the existing neighborhood design, and are therefore best described as retrofits. Projects may include rain gardens, stormwater conveyance modifications, new stormwater treatment facilities, and others. The work product will be a list of projects prioritized by cost per unit of pollutant reduction. Sketch designs of all projects will be produced, along with cost estimates. Phase 2 of this work is installation of the projects.	SRWMO, City of East Bethel, Linwood Township, BWSR and MPCA grants, Lake Associations, Coon Lake Improvement District	ACD Landscape Restoration Program, City of E. Bethel, Linwood Twp, Lake Assocs, Coon Lake Improvement District

Task	Task Summary	Possible Funding	Possible Partners
	Target neighborhoods include the west side of Martin Lake, Coon Lake Beach neighborhood, and other smaller areas. In the Coon Lake Beach neighborhood it is desirable to combine this work with planned installation of municipal sewer services for cost savings and increased options. In the Martin Lake neighborhoods, this work should build from a stormwater retrofit assessment already done (in the 1980s?). Retrofits already done there include construction of a ditch and holding pond at 227th Avenue and W Martin Lake Dr; construction of a holding pond, catch basins and dry sump at 227th Ave and Elbe St; excavation of a roadside ditch along W Martin Lake Dr to retain runoff; excavation of a roadside ditch and removal of a curb along Martin Lake Rd to improve retention of runoff; excavation of water holding areas on 228th Ln; and construction of a holding pond of Feather St tied to catch basins on Martin Lake Rd.		
Stormwater Retrofit - installation phase^^	Installation of projects identified during the stormwater retrofit reconnaissance and design. Staff with expertise in stormwater treatment will be needed to coordinate this process, and engineering assistance will be required in some instances. The process will include creating final construction designs, coordinating with the municipality, securing permits, promoting private property projects, obtaining landowner permissions, constructing the projects, and ensuring proper maintenance.	SRWMO, City of East Bethel, Linwood Township, BWSR and MPCA grants	ACD Landscape Restoration Program, City of East Bethel, Linwood Township
Estimate WMO phosphorus export	Apply a FLUX model to existing monitoring data for the W. Branch of the Sunrise River at County Road 70 (WMO boundary) to calculate phosphorus export from our jurisdictional area and thereby quantify our 20% phosphorus reduction goal.	SRWMO	US Army Corps of Engineers, Chisago Co
Join St. Croix Basin Team	The SRWMO will formally join this multi-agency group working cooperatively to address water quality issues in the St. Croix River and its tributaries. Contact person is Randy Ferrin (rsferrin@frontiernet.net 651-433-4929)	SRWMO	
Pursue financial and technical assistance program for septic system repair and replacement	Low interest loans or grants and technical assistance to assist residents with replacing or repairing non-compliant septic systems in shoreland areas. Clean Water Partnership Loans, Anoka Co. Housing and Redevelopment Authority's (HRA) Community Development Block Grant and the MN Dept. of Ag's Ag BMP Loan Program are possible funding sources. HRA funding could be zero interest loans or grants through the WMO. Zero interest loans would sit on the property with a repayment when sold or refinanced. Contracts would be between the county and the WMO and between the homeowner and septic professional. SRWMO will plan expenditures for the grant application preparation, soliciting interested homeowners, and minor administration. Most administration, such as evaluating residents' income eligibility, is done by the county. Applications are due in January. Contracts are 18 months.	SRWMO, Anoka Co HRA, MN Dept of Ag - AG BMP Loan Program, BWSR, MPCA	Municipalities, Anoka Co Housing and Redevelop-ment Authority, MN Dept of Ag, MPCA, BWSR, Lake Associations

Task	Task Summary	Possible Funding	Possible Partners
Education and Public Outreach			
SRWMO website	The existing SRWMO website will be continued (www.AnokaNaturalResources.com/SRWMO). Information posted will include board members, contact information, meeting dates, agendas, minutes, project descriptions, annual reports, and information about services provided.	SRWMO	ACD
Public officials tour	A tour for municipal officials focusing on recent projects and problems, as well as ecologically unique areas in the WMO.	SRWMO	
Septic system maintenance education campaign	Efforts to educate residents in shoreland areas about septic system maintenance will include: (a) mailing the U of M Extension's Septic System Owner's Manual to ~950 lakeshore homes that exist on our 5 largest recreational lakes - $9000 and (b) at least one locally-held workshop, perhaps with U of M Extension as a partner - $1,500.	SRWMO	U of M Extension, Lake Associations
Aquatic plant education campaign	Mailings, workshops, signage, and articles to educate lakeshore homeowners about the benefits of native aquatic plants, threat of invasive species, and ecologically-sound and legal lakeshore management. Also education about aquatic hitchhikers, for which MN DNR is a educational materials source. Target neighborhoods are those surrounding Coon, Fawn, Linwood, and Martin Lakes. Existing SRWMO signage at boat landings will be maintained.	SRWMO	ACD, DNR, Lake Associations
Lakeshore landscaping marketing	A marketing campaign will promote water quality projects such as lakeshore restorations, rain gardens, and others applicable to lakeshore properties. Efforts will include mailings, articles in local publications, workshops, presentations (such as at lake association meetings), and others. In 2013 the most work will occur including a workshop ($2,000), demonstrations ($1,000), and promotions ($1,000). All years will have active work. To facilitate this effort the SRWMO will join the Blue Thumb consortium in 2011 and continue membership in subsequent years. We will use already-prepared educational materials available through this consortium. Membership requires an annual contribution of $1500 cash or 30 hours in-kind (strongly preferred). We will meet this 30 hour obligation by incorporating Blue Thumb into several of our work plan tasks, including lakeshore landscaping marketing campaign, aquatic plant education campaign, public officials tour, the SRWMO website, our annual education publication, stormwater retrofits, some Martin and Typo Lakes water quality projects, and similar work by member communities.	SRWMO	ACD, DNR, Lake Associations
Annual educational publication	An article about the SRWMO submitted to each member city for inclusion in city newsletters, including information required in MN Rules 8410.010 subpart 4. Topics may include water quality or unique ecological features.	SRWMO	Member municipalities

^ Project dependent upon securing additional funds from grants.

^^Project dependent upon additional funds from the member community where project occurs.

Table 23. Action plan timeline and estimated costs. All costs listed are an estimate of SRWMO expenditures.

	Target Date/Estimated Cost										
	2010	**2011**	**2012**	**2013**	**2014**	**2015**	**2016**	**2017**	**2018**	**2019**	**Total**
Operating Expenses* (per the SRWMO Joint Powers Agreement costs split equally among member cities)											
Secretarial or other administrative	$880	$1,200	$1,200	$1,200	$1,200	$1,500	$1,500	$1,500	$1,500	$1,500	$13,180
Administrator (On-call, limited)		$1,500	$1,500	$1,500	$1,500	$1,700	$1,700	$1,700	$1,700	$1,700	$14,500
Liability Insurance	$2,500	$2,300	$2,300	$2,300	$2,300	$2,600	$2,600	$2,600	$2,600	$2,600	$24,700
Admin assistance- City of E. Bethel		$300	$300	$300	$300	$300	$300	$300	$300	$300	$2,700
Non-Operating Administrative Expenses*											
Financial Audit		$300	$300	$300	$300	$350	$350	$350	$350	$350	$2,950
Legal		$1,000	$1,000	$1,000	$1,000	$1,200	$1,200	$1,200	$1,200	$1,200	$10,000
Annual Report to BWSR and member municipalities	$675	$675	$675	$675	$675	$800	$800	$800	$800	$800	$7,375
Review municipal local water plans for consistency with SRWMO Plan	$2,000	$1,000									$3,000
Develop member community annual report template	$560										$560
Seek bids for services		$100		$100		$100		$100		$100	$500
Grant search and applications		$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$9,000
Reevaluate this plan based on new TMDLs			$2,000								$2,000
Update Watershed Plan (due Dec. 31, 2019)									$10,000	$30,000	$40,000
Water Condition Monitoring**											
Lake levels (volunteer)	$750	$710	$720	$730	$740	$750	$760	$770	$780	$790	$7,500
Lake water quality (volunteer)		$400									$400
Lake water quality (professional)****	$2,850		$6,061		$1,917	$4,300	$1,953		$6,409		$23,490
Stream water quality			$2,040	$1,030	$1,040	$2,100	$1,060	$1,070	$2,160	$1,090	$11,590
Stream hydrology	$1,070	$1,055	$1,060	$1,065	$1,070	$1,075	$1,080	$1,085	$1,090	$1,095	$10,745
Reference wetland	$1,605	$1,650	$1,665	$1,680	$1,695	$1,710	$1,725	$1,740	$1,755	$1,770	$16,995
Monitoring of water quality improvement project effectiveness			$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$1,000	$8,000
Studies and Investigations											
Impaired water TMDL studies - Linwood Lake is top priority^					$20,000						$20,000
Fawn Lake curly-leaf pondweed mapping and assess control needs		$3,300				$3,300				$3,300	$9,900

Water Quality Improvement Projects											
Cost share grant fund	$1,840	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$2,000	$19,840
Martin and Typo Lakes carp barriers project			$20,000	$15,000							$35,000
Discretionary water quality projects						$10,000	$10,000	$10,000	$10,000	$10,000	$50,000
~~Martin and Typo Lakes water quality projects ***~~				~~$50,000~~				~~$50,000~~			~~$100,000~~
Martin Lake area stormwater retrofit - reconnaissance and design phase	$5,000										$5,000
Coon Lake area stormwater retrofit - reconnaissance and design phase				$18,000							$18,000
Martin Lake area stormwater retrofits - installation phase^^		$10,000	$10,000								$20,000
Coon Lake area stormwater retrofits - installation phase^^					$20,000	$20,000					$40,000
~~Martin and Coon Lake area stormwater retrofits - installation phase^^~~		~~$10,000~~			~~$50,000~~						~~$60,000~~
Estimate WMO phosphorus export		$1,200									$1,200
Join St. Croix Basin Team	$0										$0
Pursue financial and technical assistance program for septic system repair and replacement			$3,000	$1,500							$4,500
Education and Public Outreach											
SRWMO website	$270	$400	$400	$400	$400	$400	$400	$400	$400	$400	$3,870
Tour of water quality projects for public officials					$1,500				$1,500		$3,000
Septic system maintenance education campaign				$10,500							$10,500
Aquatic plant education campaign		$1,000			$1,000			$1,000			$3,000
Lakeshore landscaping marketing		$500	$700	$4,000	$700	$700	$700	$700	$700	$700	$9,400
Annual educational publication		$500	$500	$500	$500	$500	$500	$500	$500	$500	$4,500
ANNUAL ESTIMATED EXPENDITURES ~~(note: these annual totals do not include certain water quality improvement projects*** which span several years - the year those expenses will be realized is undetermined)~~	$20,000	~~$32,090~~ $42,090	~~$29,421~~ $59,421	~~$50,780~~ $65,780	~~$41,837~~ $61,837	~~$27,385~~ $57,385	~~$20,628~~ $30,628	~~$19,815~~ $29,815	~~$37,744~~ $47,744	~~$52,195~~ $62,195	~~$481,598~~ $466,895

* All administrative costs estimated to be constant for 1st 5 yrs, then increased 10-20% for 2nd 10 yrs.

** All monitoring costs estimated with an increase of up to 4% per year.

~~*** These project expenses are not included in annual totals because the year the work will occur is unknown. It is included in the multi-year total.~~

****Fee for monitoring both Coon Lake basins was calculated as 1.8 times the regular lake fee (20% discount on 2nd basin).

^ Project dependent upon securing additional funds from grants. SRWMO is committed to providing the funds listed as match toward a grant.

^^Project dependent upon additional funds from the member community where project occurs. SRWMO is committed to providing the funds listed. Limited funding will be applied to projects yielding the greatest pollutant removal per dollar.

Table 28. Estimated financial contributions from each member community each year.

	2010**	2011	2012	2013	2014	2015	2016	2017	2018	2019	TOTAL
Operating Expenses*	$3,380	$5,300	$5,300	$5,300	$5,300	$6,100	$6,100	$6,100	$6,100	$6,100	$55,080
Non-Operating Admin. and SRWMO Projects***	$16,620	$26,790 ~~$39,290~~	$54,121 ~~$46,621~~	$60,480 ~~$67,980~~	$56,537 ~~$59,037~~	$51,285 ~~$41,285~~	$24,528 ~~$34,528~~	$23,715	$41,644	$56,095	$411,815 ~~$436,815~~
Linwood 25% Admin. & 46.40% Projects	$7,958	$13,756 ~~$19,556~~	$26,437 ~~$22,957~~	$29,388 ~~$32,867~~	$27,558 ~~$28,718~~	$25,321 ~~$20,681~~	$12,906 ~~$17,545~~	$12,529	$20,848	$27,553	$204,254 ~~$211,214~~
E. Bethel 25% Admin. & 32.93% Projects	$6,812	$10,147 ~~$14,263~~	$19,147 ~~$16,677~~	$21,241 ~~$23,710~~	$19,943 ~~$20,766~~	$18,413 ~~$15,120~~	$9,602 ~~$12,895~~	$9,334	$15,238	$19,997	$149,874 ~~$154,814~~
Columbus 25% Admin. & 16.72% Projects	$3,780	$5,804 ~~$7,894~~	$10,374 ~~$9,120~~	$11,437 ~~$12,691~~	$10,778 ~~$11,196~~	$10,100 ~~$8,428~~	$5,626 ~~$7,298~~	$5,490	$8,488	$10,904	$82,782 ~~$85,290~~
Ham Lake 25% Admin. & 3.95% Projects	$1,450	$2,383 ~~$2,877~~	$3,463 ~~$3,167~~	$3,714 ~~$4,010~~	$3,558 ~~$3,657~~	$3,551 ~~$3,156~~	$2,494 ~~$2,889~~	$2,462	$3,170	$3,741	$29,985 ~~$30,578~~

*Operating expenses are split evenly among the member communities, per the joint powers agreement.

** 2010 contributions from each community for projects uses these percentages - Linwood 42.8%, E. Bethel 35.9%, Columbus 17.66%, Ham Lake 3.64%. The percentages used for all other years and shown in the first column of the table were calculated in December 2009 by Anoka County GIS Department and Anoka Conservation District following methods prescribed by the 2010 SRWMO Joint Powers Agreement.

~~*** Several water quality improvement projects will occur across several years. In this table these expenses are evenly divided among those years. Actual~~

Additional costs include work conducted by the individual members that improve or protect water quality such as administering the Wetland Conservation Act, street sweeping, regulating shorelands and septic systems, and enforcing erosion control standards. This work has been ongoing for many years, is included in this plan, and illustrates the high commitment of resources by the members to maintaining and improving water resources. These do not represent additional costs of operating the WMO, but rather those already incurred on an annual basis.

There are many options available at the local level for funding the implementation plan. This plan does not prescribe the means by which to fund the plan, rather, that is left to the discretion of the member communities. Table 29 is a brief summary of funding alternatives and their pros and cons.

The Metropolitan Surface Water Management Act gives local governments within the WMO the authority to levy taxes (without regard to existing levy limitations) to pay for water resource planning and management activities required under the Act. Thus, local government planning required to prepare or amend any plans and regulations to comply with the WMO's management plan can be funded by new local tax levies without regard to existing limitations on regular property tax levies within the local government. A local government can also apply a local levy over part of its jurisdiction by creating a local drainage district for tax and planning purposes.