

**Table VI-1
Status of Implementation Program from Table 7-1 of
2005-2015 VBWD Watershed Management Plan**

Item Number	Item Description	Proposed Implementation Year in Plan	Status
AA-1	General education activities: <ul style="list-style-type: none"> • Increase awareness of VBWD • Coordinate and cooperate with other entities to educate the public on general watershed issues • Promote positive behaviors through education and other public information efforts 	Annually	Continuing.
AA-2	Update VBWD website	Annually	Meeting information updates are done twice a month. Larger updates are done when necessary. A strategic plan will be developed in 2009.
AA-3	Respond to information requests/provide information	Annually	Continuing.
AA-4	Recruit and train volunteers for monitoring and other programs/ projects	Annually	Volunteers continue to monitor the quality of lakes, pond, and wetlands through CAMP. Volunteers also monitor water levels.
AA-5	Develop and implement VBWD volunteer recognition program	Annually	Planning was done in 2008. The event is anticipated to take place in 2009.
AA-6	Maintain VBWD Citizen Advisory Committee and seek to develop meaningful responsibilities for committee	Annually	Planning was done in 2008. The committee will be appointed in the spring of 2009.
AA-7	Develop plan for an incentive program encouraging implementation of best management practices in the watershed. This incentive program will focus on residents, but can also apply to businesses, developers, and others.	2006 – Develop program 2007 – Begin implementing annually thereafter	Developed in 2007 and implemented in 2008.
AA-8	Hire watershed educator and ongoing watershed educator fees	2006 – Hire	Done.
AA-9	Review and comment on MPCA's draft impaired waters (303(d)) list	Every other year	Continues.
AA-10	Buffers: require 16.5-foot wide buffers and encourage/ support wider buffers for new VBWD-permitted projects; encourage/support buffers at existing homes/ businesses and park areas	Annually	Buffer rules have been revised. VBWD continues to encourage/support wider buffers at existing homes/businesses.
AA-11	Develop and implement incentive program to encourage developers to try new and innovative stormwater management techniques. Incentive program could include VBWD funding of additional cost for implementing innovative measures, VBWD construction of demonstration project (see Capital Projects section of Table 7-1), and VBWD grant program.	2005 – Develop program 2006 – Begin implementing Annually thereafter	VBWD's cost-share BMP program, developed in 2007 and implemented in 2008, partially addresses this. VBWD is planning to develop a separate incentive program to target developers in 2009.
AA-12	Conform to NPDES Phase II MS4 requirements, implement VBWD's Stormwater Pollution Prevention Plan (SWPPP)	Annually	Continues.
AA-13	Administer VBWD permit program	Annually	Continues.
AA-14	Review and comment on all DNR public waters work permit applications	Annually	Continues.
AA-15	Cooperate with other units of government to address groundwater quality issues	Annually	Continues.
AA-16	Administer Wetland Conservation Act (VBWD is Local Government Unit)	Annually	Continues.
AA-17	Inspect VBWD-permitted projects & enforcement	Annually	Continues.

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AA-18	Valley Creek – facilitate meeting regarding 2000 Subwatershed Plan implementation	Annually	VBWD continues to work with stakeholders, and staff has met with various stakeholders. Some representatives have changed. No longer planned to be an annual event., but will be done as needed and is planned for 2009.
AOM-1	Operate, inspect, maintain, modify, and repair all existing and future VBWD water quality improvement systems	Annually	Continues.
AOM-2	Operate, inspect, maintain, modify, and repair all existing and future VBWD flood control systems (e.g. Project 1007, Rest Area Dam, Eagle Point Lake Dam, Olson Lake Estates Outlet, Echo Lake Outlet, Downs Lake Outlet, Weber Pond Outlet)	Inspections: Annually Operation, maintenance and repair: as needed	Continues.
AOM-3	Valley Creek – inspect dam	Annually	Done in 2007. VBWD does not anticipate conducting future inspections on this private dam.
ADC-1	Publish and distribute VBWD annual report	Annually	Continues.
ADC-2	Basin water quality monitoring	Annually	Continues.
ADC-3	Analyze and report basin water quality monitoring, including calculating trends and action triggers and comparing results to triggers	Annually	Continues.
ADC-4	Stream water quality and streamflow monitoring of perennial streams (Valley Creek), and annual reporting	Annually	Continues.
ADC-5	Valley Creek – continue volunteer stream monitoring program	Annually	Continues.
ADC-6	Physical monitoring of DNR-protected streams (i.e. Valley Creek and Raleigh Creek) and report results	Annually	Physical monitoring portions of Raleigh Creek began prior to 2005. As projects (see P-32) are implemented at Valley Creek, the VBWD will physically monitor the projects' performance.
ADC-7	Raleigh Creek – Fund volunteer stream monitoring program	Annually	Volunteers for the VBWD attempted to monitor Raleigh Creek in 2007, but it was too dry. This is no longer an annually planned activity.
ADC-8	Monthly basin water level monitoring and reporting. Expand to include: Echo Lake, Weber Pond, Capaul's Pond, Legion Pond, Bay Lake, Goose Lake, Clear Lake, Mergens Pond, Rose Lake and Kramer Pond	Annually	Continues. Waters in list of possible program expansion were monitored in 2008. VBWD will determine whether or not to continue to monitor the water levels of each basin on a case-by-case basis.
ADC-9	Daily precipitation monitoring and monthly reporting	Annually	Continues.
ADC-10	Snowpack monitoring	When needed	As needed.
ADC-11	Groundwater level monitoring & reporting	At least quarterly monitoring, annual reporting	Continues.
A-1	Hold tours, events, and/or orientation meetings for interested citizens	As needed or in response to requests	As needed.
A-2	Seek input from Technical Advisory Committee	As needed	As needed.
A-3	Revise individual water body classifications	As warranted	No revisions have been made yet.

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Item Number	Item Description	Proposed Implementation Year in Plan	Status
A-4 (See also P-4 in this table)	Implement recommended actions resulting from habitat monitoring program	As recommended	The VBWD is working with its educator to implement the recommendations.
A-5	Cooperate with the DNR and other groups on fisheries issues	As requested	Not requested yet.
A-6	Review local watershed management plans	2005, 2007, 2009	Several were submitted to the VBWD for review in 2008. A few more are expected to be submitted in 2009.
A-7	Work with local government units to adopt/revise land use ordinances to allow for runoff prevention methods (narrower streets smaller parking lots, etc.)	2006-2008	VBWD's educator has organized training workshop for local officials to incorporate policies for allowing these practices in local comprehensive plans. VBWD expects to continue to work with LGUs through the 2008 comprehensive planning and implementation process.
A-8	Review community comprehensive land use plans, proposed revisions and zoning changes	As needed. Assumed in 2008 for Oakdale, Lake Elmo, Woodbury, Afton, Oak Park Heights, Grant, White Bear Lake, Maplewood, Mahtomedi, North St. Paul	Several were submitted and reviewed in 2008.
A-9	Review environmental assessments (e.g. EAW, EIS, AUAR)	As needed	Continues. In 2008, the VBWD reviewed and submitted comments on draft AUARs for the Lake Elmo Village expansion and the northeastern corner of Woodbury. In 2008, the VBWD also responded to remedial action plans for the Washington County landfill.
A-10	Review community floodplain and shoreland management ordinances	As needed. Assumed in 2008 for cities listed in A-8.	None has been submitted, yet, but they are expected in late 2009.
A-11	Review community wellhead protection plans	As needed	Continues.
A-12	Cooperate with cities and other public water suppliers in education efforts regarding preventing contamination of groundwater supplies	As needed	Continues, including, but not limited to, VBWD's participation in the East Metro Watershed Education Program and Washington County Water Consortium.
A-13	Update VBWD Groundwater Management Rules and Regulations	2005	Complete. Rules adopted January 25, 2007.
A-14	Revise VBWD wetland management Rules and Regulations to include wetland management standards and classification system.	2006	Complete. Rules adopted January 25, 2007.
A-15	Cooperate with other agencies to encourage good agricultural conservation measures in VBWD	As needed	Continues, including, but not limited to, VBWD's participation in the East Metro Water Resources Education Program (EMWREP) and Washington County Water Consortium and VBWD's cooperation with and support of the Washington Conservation District programs.

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Item Number	Item Description	Proposed Implementation Year in Plan	Status
A-16	Update VBWD legal boundary	As needed	In 2008, the VBWD worked with Washington County to update the entire VBWD boundary.
A-17	Begin updating VBWD Watershed Management Plan	2013	Future work.
A-18	Silver Lake – Encourage buffers	2006	In 2007, VBWD communicated the benefits of buffers to the North St. Paul City Council and the Silver Lake Association. VBWD will continue to encourage buffers at Silver Lake on its own and through partnerships with EMWREP, Ramsey-Washington Metro Watershed District, and other organizations. VBWD also included comments regarding buffers in reviewing North St. Paul and Maplewood's local plans in 2008.
A-19	Acorn Lake – Require Oakdale to install outlet restriction or provide information that shows not needed	2007	The VBWD commented on this in the 2008 draft Oakdale local water management plan. The final plan, expected in 2009, is expected to address this issue..
A-20	Long Lake Outlet operation– Communication with property owners	As needed, assume every other year	Continues.
A-21	Eagle Point Lake watershed – Work with WCP to protect oak forest areas and upland buffers	2007	VBWD communicated with WCP in 2006 regarding this issue. VBWD will continue to work with WCP.
A-22	Valley Creek – provide incentives and technical assistance for removing or modifying flood control structures	2007	Moved to a later date. VBWD will re-evaluate the need for this item.
A-23	Valley Creek – work with agencies on reduction of thermal impacts	2006	VBWD's 2007 adopted volume control rules address. Potential future work.
A-24	Sunnybrook Lake – Work with Grant on raising low roads	2005	VBWD attempted in 2005, but will no longer pursue.
DC-1	Monitor water quality of Raleigh Creek and other VBWD intermittent streams	As required/ requested, in response to identified or suspected problem	Raleigh Creek was monitored in 2007 and 2008.
DC-2	Monitor physical condition of streams other than Valley Creek and Raleigh Creek	As needed, in response to problems	Potential future work.
DC-3	Stormwater pond inventory – locate ponds and determine if ponds meet criteria	2006-2010	Continuing. In 2005, VBWD identified, inventoried, and analyzed 67 stormwater ponds 0.25 acres and larger for maintenance needs. 50 ponds were surveyed in 2006, 50 ponds were surveyed in 2007, and 16 ponds were surveyed in 2008.
DC-4	Identify, inventory, prioritize, and monitor erosion and sedimentation problems that arise outside of VBWD permit program	As identified	Potential future work.
DC-5	Silver Lake Intensive Water Quality Monitoring	2006	Completed in 2006.
DC-6	Silver Lake ditch erosion stabilization evaluation	2007	Evaluated in 2007. Determined a project is not currently needed. The VBWD will work with Maplewood to address the issue, if needed.

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DC-7	Long Lake – Evaluate ravine erosion from Weber Pond	2006	Evaluated in 2007. Project designs were prepared in 2008, construction began in 2008 and will be complete in 2009.
DC-8	Long Lake – Evaluate sedimentation source from Highway 36	2006	Evaluation, if needed, will be done in the future as MnDOT redesigns interchange.
DC-9	Goose Lake – Investigate gully erosion	2008	Evaluated in 2007. Project designs were prepared and construction was completed in 2008. Vegetation work is planned for 2009.
DC-10	Goose Lake – complete aquatic plant surveys to determine if curlyleaf pondweed is kept in check	Every 3 years	Continues through the VBWD's habitat monitoring program.
DC-11	Goetschel Pond – Investigate gully erosion	2005	Evaluated in 2007. Project designs were prepared and construction was completed in 2008. Vegetation work is planned for 2009.
DC-12	Mergens Pond - develop bathymetric map	2005	Completed in 2007.
S-1	Complete diagnostic-feasibility studies, when recommended, to determine needed water quality improvement projects	As recommended	Continues. VBWD completed a water quality assessment study in 2007 for the Acorn, Long, and Sunfish Lakes and began to implement the recommended projects for Long and Sunfish Lakes in 2008. (See P-14 and P-37.) In 2008, water quality assessments were nearly complete for Eagle Point Lake, Horseshoe Lake and Lake DeMontreville.
S-2	TMDL studies: cooperate with MPCA to determine responsible party for developing TMDL study, actively participate in TMDL process	As required	Potential future work. Currently, only Sunfish Lake is listed as nutrient impaired. VBWD completed a water quality assessment studies in 2007 and 2008. The first phase of improvement projects were implemented in 2008. (See P-37 and P-14.)
S-3	Develop stormwater pond maintenance/repair/ retrofit plan	2006	Continues with stormwater pond inventory and maintenance. (See DC-3 and P-5).
S-4	Update VBWD Stormwater Management Rules and Regulations, including stormwater volume control requirement	2005	Completed. New rules adopted in January 2007.
S-5	Assist property owners in FEMA unnumbered A zones in obtaining Letters of Map Amendment or Letters of Map Revision	As needed	Potential future work.
S-6	Complete wetland inventories and functional assessments in targeted areas of the VBWD, and meet with stakeholders to share results, gather feedback, and explore partnerships/projects.	Inventories: 2006-2015 Meetings: 2007-2015	Wetland inventories were started in 2007 and planned to be complete in 2009. Planning efforts will follow.
S-7	Develop invasive species education and control program	2008	Discussed in 2008 with VBWD's educator and WCD, likely implemented in 2009 or 2010 with assistance from CAC.
S-8	Silver Lake – Study (i.e. literature review) of curlyleaf pondweed and Eurasian water milfoil transport to downstream waters	2008	VBWD discussed this with the DNR and no longer plans to conduct a study.
S-9	Echo Lake Addition – Flood Relief Study	2005	VBWD worked with Mahtomedi to evaluate the problem in 2005. Mahtomedi should take the lead in future studies/projects.
S-10	Lake DeMontreville – Prepare feasibility study for sedimentation control project	2007	Investigated and concept plans developed in 2008. Project likely will be implemented in 2009.

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S-11	Rest Area Pond – Study (i.e. literature review) possible downstream impact of curlyleaf pondweed infestation	2008	Planned for 2009.
S-12	Rest Area Pond – Investigate feasibility of restricting outlet	2008	Planned for 2009.
S-13	Valley Creek – Identify critical areas of concern for protection	2005	Completed in 2005.
S-14	Valley Creek – Modify buffer rules	2005	Completed. Rules adopted on January 25, 2007.
P-1	Install information signs at current and future VBWD projects	As needed. Assumed 2008 for current projects.	A sign was installed at the Silver Lake Bioretention Site in 2007. A sign was replaced at the Eagle Point Lake dam in 2006. More signs will be considered with future work.
P-2	Implement stream management and stream restoration projects and actions to address identified stream degradation problems Identified projects:	To be determined	
	• Raleigh Creek – Stream management and stream restoration project implementation	2005	VBWD completed a plan in 2008 and plans to implement projects in 2009.
	• Raleigh Creek – Detention basin(s) flow reduction & water quality treatment project	2006	Detention ponds may be added in the future, but are no longer planned in the short-term.
P-3	Implement TMDL studies in VBWD	As required	Potential future work.
P-4	Implement recommended projects resulting from habitat monitoring program, i.e. lakescaping demonstration project, sediment excavation, aquatic plant management	As needed	VBWD is working with its educator and WCD to implement recommendations from 2005-2007 monitoring reports.
P-5	Implement stormwater pond maintenance/repair/retrofit plan	Starting in 2012 and ongoing until plan fully implemented	Began in 2008.
P-6	Construct demonstration project for new and innovative stormwater management techniques	2007 and in future years, when warranted	Shoreline project done in 2007.
P-7	Implement invasive species education and control program	2008 and in future years, if needed	VBWD is working with its educator and WCD to implement.
P-8	Implement measures to correct erosion and sedimentation problems	As needed	Continues.
P-9	Silver Lake – In-lake alum treatment	2009	The VBWD no longer plans to perform this activity.
P-10	Silver Lake – Manage macrophytes	2009	VBWD is no longer planning to take the lead in these efforts.
P-11	Silver Lake ditch erosion stabilization project implementation	2008	Ravine has evaluated in 2007. Stabilization work, if needed, will likely be done with Maplewood.
P-12	Echo Lake – In-lake alum treatment, if it benefits downstream waters	2010	Potential (but unlikely) future work.
P-13	Echo Lake Addition - Flood Relief Implementation	Not Applicable	No longer planned.
P-14	Long Lake - Water quality improvement projects – one of the following: 1) Stormwater alum treatment, 2) 3 wet detention basins and infiltration basin, or 3) 3 wet detention basins, replacing about 26 sanitary septic systems.	2010	VBWD updated its feasibility assessment report and implemented an in-lake alum treatment in 2008. A second dose of alum is planned in 2009 and aeration is planned in 2010.

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P-15	Long Lake – Manage curlyleaf pondweed	2010	Potential future work.
P-16	Long Lake – Prepare feasibility study and implement project to stabilize ravine from Weber Pond	2008	Plans prepared in 2008, constructed expected to be complete in 2009.
P-17	Long Lake – Work with Mn/DOT to eliminate sedimentation source from Highway 36	2008	VBWD met with MnDOT in 2008 and will work with MnDOT as it plans to redesign the interchange.
P-18	Long Lake Outlet Debris Removal	As needed	As needed. Debris was removed and a trash rack was installed in 2007.
P-19	Lake DeMontreville – In-lake alum treatment water quality improvement project	2011	VBWD evaluating Lake DeMontreville's water quality in 2008. Improvement projects, if any, will be determined in 2009.
P-20	Lake DeMontreville – Curlyleaf pondweed management	2011	Potential future work.
P-21	Lake DeMontreville –Implement sedimentation control project	2008	VBWD evaluated the sedimentation issue in 2008 and is planning a project for 2009.
P-22	Lake Olson - In-lake alum treatment water quality improvement project	2012	Potential future work.
P-23	Lake Olson – Curlyleaf pondweed management	2012	Potential future work.
P-24	Lake Olson – Abandon old well	2012	Future work.
P-25	Lake Jane – Curlyleaf pondweed management	2013	Potential future work.
P-26	Eagle Point Lake – Curlyleaf pondweed management	2014	Potential future work.
P-27	Eagle Point Lake wetlands – Reed canary grass eradication	2014	Potential future work.
P-28	Eagle Point Lake Dam Revegetation	2006	VBWD began this project in 2008.
P-29	Horseshoe Lake – Curlyleaf pondweed management	2015	Potential future work.
P-30	Rest Area Pond – implement, if approved, restricting outlet	2014	Potential future work.
P-31	Lake Edith – Curlyleaf pondweed management	2015	Potential future work.
P-32	Valley Creek – implement habitat improvement and stabilization projects	2005-2008	Continues. Oakgreen Avenue Infiltration Basin was constructed in 2008. Two stream stabilization projects and one road runoff stabilization project were also constructed in 2008. More projects are planned in 2009. See other parts of this annual report for more details.
P-33	Valley Creek – implement dam rehabilitation or removal project	2006	No longer planned – decision based on 2007 study and discussions.
P-34	Sunnybrook Lake – Implement Flood Level Reduction Project or other listed options	2005	No project is feasible.
P-35	Goose Lake –implement gully stabilization project	2008	Plans prepared and project constructed in 2008. Vegetation is planned in 2009.
P-36	Goetschel Pond –implement gully stabilization project	2007	Plans prepared and project constructed in 2008. Vegetation is planned in 2009.
P-37	Water quality improvement projects recommended in future water quality diagnostic feasibility studies	As needed	An in-lake alum treatment improvement project was implemented at Sunfish Lake in 2008.