Draft Sweeney Lake Management Plan

Management Practice	Potential Phosphorus Removal (Pounds)
Best Management Practices (BMPs) that achieve a level of removal of phosphorus and total suspended solids equal to or greater than the level that would be achieved by a permanent pool that provides for storage of 2.5 inches of runoff volume from the entire development site will be required for all new development and redevelopment.	50[1]
Best Management Practices that infiltrate the first one inch of rainfall from all impervious surfaces will be required for all new development and redevelopment where feasible.	Not estimated
Opportunities to implement extended detention basins, infiltration basins, biofiltration basins, grit chambers and other BMPs will continue to be identified as part of new development, redevelopment and maintenance projects where they will provide a water quality benefit to the Lake.	Not Estimated
As new BMPs and water quality improvement technologies are developed they will be evaluated to determine if they can provide a water quality benefit to the Lake and they will be implemented if they are determined to be reasonable and practicable.	Not Estimated
Continue the program to promote the development of shoreline buffers.	15[2]
Investigate the feasibility of modifying the pond in Shaper Park to improve its ability to remove phosphorus and implement if it is found to be reasonable and practicable. **Alternative**: Filtration barrier to improve Shaper Park pond performance.	40 20
Investigate the feasibility of dredging Spring Pond and diverting low flows from the Sweeney Lake branch of Bassett Creek to the pond will and implement if it is found to be reasonable and practicable. **Alternative**: Filtration barrier to improve pond performance.	20 20
Investigate the feasibility of in-lake treatment to limit the internal phosphorus load from bottom sediments and implement if it is found to be reasonable and practicable.	175 (for 55% Internal Load Reduction)
Existing BMPs will be monitored and maintained to insure that they continue to provide the water quality benefits that they were intended to provide.	Not Estimated
Continue the city street sweeping program and evaluate new technology and new techniques when they are developed to determine if they would provide a water quality benefit to the Lake and implement them if found to be reasonable and practicable.	18
County and State Highway load reduction program including sweeping	51[3]
The water quality education program will continue to work with watershed residents to increase their understanding of practices that would reduce the amount of pollutants entering the Lake	10

[1] Based on an estimated 500 acres of redevelopment over the next 20-year period.

[2] Assumes 5000 feet of shoreline buffer restoration.

[3] Assumes 50% load reduction and sweeping,