

Appendices

**Appendix A - Clean Water Act – Total Maximum Daily Load Response Strategy for
Lake Whatcom Total Phosphorus and Bacteria**

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Appendix A
Clean Water Act – Total Maximum Daily Load
Response Strategy for
Lake Whatcom Total Phosphorus and Bacteria

Lake Whatcom is the subject of a Federal Clean Water Act process known as a Total Maximum Daily Load which is administered by the State of Washington Department of Ecology. In 1998 the lake was included in a list of polluted water bodies due to low dissolved oxygen levels in the water. In 2004 Total Phosphorus was added to the list of pollutants affecting lake water quality. Several other pollutants have been found in fish tissue samples, these include mercury, PCB, Dieldrin, and others.

Every TMDL submitted by the State of Washington includes a *Summary Implementation Strategy* (SIS) and a final *Detailed Implementation Plan* (DIP). These companion documents to the TMDL are described in a Memorandum of Agreement between EPA and Ecology, view the MOA at this link: <http://www.ecy.wa.gov/programs/wq/tmdl/303moa12.pdf>.

The *Lake Whatcom Watershed Total Phosphorus and Bacteria Total Maximum Daily Load, Water Quality Study Findings* (TMDL Study) was completed in November 2008 by Ecology. This document identifies pollutant sources, pollutant loading amounts, load reduction requirements and suggested response strategies.

In preparation for submitting a TMDL plan to EPA for approval, Ecology develops a (SIS) which includes the pollutant source, loading and reduction requirements and additional information from the TMDL Study as well as a concise, description of activities planned or underway to implement the TMDL, as provided in the *2010-2014 Lake Whatcom Management Program Work Plan* (2010-2014 Work Plan).

After EPA approves the SIS, Ecology, in cooperation with local interests, will develop a DIP, which describes specific strategies and timelines to meet reduction targets, as well as identifying the responsible entities. The DIP also includes a detailed monitoring plan that sets monitoring guidelines to evaluate the TMDL's effectiveness, describes funding sources and establishes funding commitments.

In addition to the public process provided for in the 2010-2014 Work Plan, there will also be opportunities for public comment during development of the DIP.

Appendix B Funding Sources

Adequate funding is essential to successful implementation of the 2010-2014 Lake Whatcom Management Program Work Plan. Funding sources include:

- 1) Lake Whatcom Property Acquisition Fee
- 2) Bellingham Stormwater Utility
- 3) Bellingham Water Utility
- 4) Bellingham Street Utility
- 5) Bellingham General Fund
- 6) Whatcom County General Fund
- 7) Whatcom County Flood Control Zone fee
- 8) Real Estate Excise Tax
- 9) Lake Whatcom Water and Sewer District Utility
- 10) Sudden Valley Community Association
- 11) Grants

Funding for implementation of activities varies both in the types of funding sources and the certainty of the funding. The funding indicated in the Cost Estimates table of each task is actual funding available from one or more of the listed funding sources **as of the date of this draft plan**. An account of the funding that supports each task will be available as an addendum to this Appendix B in the Fall of 2010. Since most tasks are implemented by more than one jurisdiction, those tasks have more than one funding source, at least one per jurisdiction. Some tasks are funded by more than one source within a jurisdiction e.g. Task 4.2 is partly funded by the Bellingham Stormwater Utility and the Bellingham Water Utility.

Funding sources that are derived from an ongoing dedicated source such as the Property Acquisition fee have greater certainty than those that are derived from a General Fund or other non-dedicated source.

The Cost Estimates table for each Task includes information for each year of the recommended duration of the Task. When the funding is certain an amount is entered for that period in the appropriate column, however, when the recommended duration of the Task extends beyond which funding is now known and dedicated then the Cost Estimates table will indicate "undetermined" funding for the years with undesignated funding. Future budget recommendations and grant applications will then focus on funding Tasks with "undetermined" funding.

Funding issues will be further clarified during the development of the *Detailed Implementation Plan*, when the final project list is developed with timelines, funding needs, and funding sources identified. That process will include opportunities for the public to comment on the long term funding strategy for the TMDL. Decisions and commitments to funding and project implementation will also be incorporated into the NPDES permits for the city and county.

Appendix C Acronyms

APWA: American Public Works Association
BMC: Bellingham Municipal Code
BMP: Best Management Practice
CE: Conservation Easement
CIP: Capital Improvement Project
DIP: Detailed Implementation Strategy
DNR: Washington Department of Natural Resources
DOE: Washington Department of Ecology
EOP: Emergency Operations Plan
ICT: Interjurisdictional Coordinating Team
IJC: Interjurisdictional Committee
LWMP: Lake Whatcom Management Program
NPDES: National Pollution Discharge Elimination System
NVPA: Native Vegetation Protection Area
OSS: Onsite Septic System
RSRP: Residential Stormwater Retrofit Program
SBCP: Silver Beach Creek Pilot Project
SEPA: State Environmental Protection Act
SIS: Summary Implementation Strategy
SVCA: Sudden Valley Community Association
TMDL: Total Maximum Daily Load
UGA: Urban Growth Area
WCC: Whatcom County Code
WCHD: Whatcom County Health Department
WTA: Whatcom Transportation Authority
WWU: Western Washington University

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