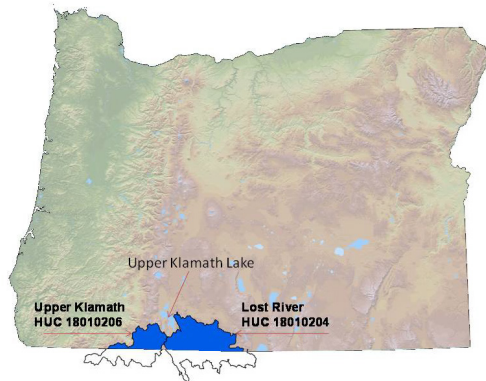


Upper Klamath and Lost River: Draft Water Quality Improvement Plans

Several stream segments of the Upper Klamath and Lost River subbasins do not meet state water quality standards for dissolved oxygen, pH, ammonia toxicity, and algae.



Upper Klamath and Lost River subbasins.

The water quality problems in the Upper Klamath subbasin are caused by an overabundance of phosphorus, nitrogen and biochemical oxygen demand, and warm conditions. Additionally, DEQ has identified three pollutants for the Lost River subbasin: dissolved inorganic nitrogen, carbonaceous biochemical oxygen demand and chlorophyll-a.

This fact sheet summarizes DEQ's upcoming plans to reduce pollution and address water quality concerns in the Upper Klamath and Lost River subbasins. The plans are designed to ensure that the streams are healthy for fish and wildlife, and safe for fishing, swimming and other beneficial uses.

The federal Clean Water Act requires DEQ to develop plans with goals and pollution control targets for improving water quality in these stream segments. DEQ is doing this by establishing limits known as Total Maximum Daily Loads for each pollutant entering the water system.

A TMDL evaluation uses scientific data collection and analysis to determine the amount and source of each pollutant entering the river system, and allocates pollutant loads to each source at levels that would ultimately restore water quality to clean water standards. A "pollution load" is the amount of each pollutant a waterway can receive and not violate water

quality standards. A TMDL takes into account the pollution from all sources.

The Upper Klamath and Lost River subbasins are within the Klamath basin. DEQ completed TMDLs for temperature, dissolved oxygen and pH for the Upper Klamath Lake drainage, including the Sprague, Williamson and Upper Klamath Lake subbasins, in 2002.

Oregon – California TMDL Process

Oregon DEQ and the California North Coast Regional Water Quality Control Board (NCRWQCB) worked cooperatively to develop TMDLs for the impaired waterbodies in the Klamath Basin. Given the interstate nature of these water bodies, NCRWQCB and DEQ with the support of the U.S. Environmental Protection Agency (EPA), have agreed and jointly developed TMDLs for both the Lower Lost River and Klamath River. The states and EPA have signed a Memorandum of Agreement outlining roles, responsibilities, and communication processes for completing the TMDLs and associated implementation planning.

Klamath River TMDLs

The Klamath River TMDL analysis included impoundments and stream sections of the Klamath River from the outlet of Upper Klamath Lake to the State border with California. Pollutants responsible for water quality impairments included phosphorus, nitrogen, and biochemical oxygen demand.

The analysis indicates that water quality standards for Oregon waterbodies and California's water quality standards at the state line can be attained when phosphorus, nitrogen and biochemical oxygen demand loading from point and nonpoint sources are reduced. Additionally, dissolved oxygen augmentation is required in two impounded reaches in order to achieve water quality standards.

Lost River TMDLs

The analysis included waterbodies in the impounded and stream sections of the Lost River from the Oregon-California state line downstream of the Malone Dam to the state line upstream of Tule Lake and the Klamath Straits Drain from the state line to the confluence with the Klamath River.



State of Oregon
Department of
Environmental
Quality

Water Quality Eastern Region - Bend

475 NE Bellevue Drive
Suite 110
Bend, OR 97701-7415
Phone: 541-273-7002
866-863-6668
Fax: 541-388-8283
Contact: Mike Hiatt
www.oregon.gov/DEQ

Criteria for meeting the dissolved oxygen standard are the most stringent. Computer modeling indicates that if the dissolved oxygen criteria are met in the system, then the other water quality criteria will also be attained.

Oregon at 1-800-452-4011, ext. 5696; or email deqinfo@deq.state.or.us.

Dissolved inorganic nitrogen and carbonaceous biochemical oxygen demand reductions are necessary to attain the dissolved oxygen, pH, and ammonia toxicity standards. The Lost River TMDLs ensure that the water that flows downstream across the state line into California meets California's dissolved oxygen standard.

Water quality management plan

The TMDL report includes a Water Quality Management Plan that identifies strategies and approaches for accomplishing water quality improvements. The plan identifies local, state and federal government or private entities with responsibility for addressing pollution under their control. These entities are often referred to as "designated management agencies." The plan also proposes management strategies designed to meet the allocations in the TMDLs and establishes a schedule for the submission of implementation plans.

Public process and participation

There are numerous opportunities for stakeholder participation in TMDL development and implementation. DEQ distributes information to the public by direct mailing to interested parties and by posting on the Klamath Basin TMDL web page at:

www.deq.state.or.us/wq/tmdls/klamath.htm.

DEQ will also host meetings with focus groups to provide information about the TMDL development process and approach, to understand stakeholder concerns and respond to questions.

To be placed on the mailing list or have questions addressed regarding the TMDL process, public process, stakeholder list, and information posted on the Klamath Basin web page, please contact Mike Hiatt, Basin Coordinator, at 541-273-7002, or by email: hiatt.mike@deq.state.or.us.

Alternative formats

Documents can be provided upon request in an alternate format for individuals with disabilities or in a language other than English for people with limited English skills. To request a document in another format or language, call DEQ in Portland at 503-229-5696, or toll-free in

