



**Environmental Impact Study**  
City of Kamloops

The City of Kamloops is undertaking a Liquid Waste Management Plan (LWMP) to establish the long-term and environmentally sustainable option for the treatment, reuse and disposal for sewage. The key to completing this LWMP successfully lies with the Environmental Impact Study, which will determine an appropriate effluent quality.

If the City registers under the Municipal Sewage Regulation, a high removal of phosphorus will be required for direct river discharge. To construct a suitable treatment facility (biological nutrient removal plant), it is estimated that this would cost \$69,000,000. The LWMP has indicated that a more reasonable alternative would be to implement a treatment process which would provide a greater phosphorus discharge and cost approximately \$35,000,000 (biological phosphorus removal plant). However, the City must prove that this option would not be of detriment to the environment.

The following have been completed to date during the phased Environmental Impact Study:

- A review of the studies completed on the Thompson River, summarized in a literature review report. It has been stated that the Thompson River is the most studied river in Canada.
- A workshop where an independent panel of experts discussed the preferred option of a higher phosphorus release to the Thompson River
- The development of an Environmental Management Committee, with representatives from the City, Weyehaeuser, and the Provincial and Federal Governments

The aim of this committee is to define the further work which is to be completed before the partial phosphorus removal treatment option can be acknowledged as appropriate for the City's LWMP. Therefore, the following is under completion:

- A chemical mass balance of phosphorus in the Thompson River (current and future treatment options for the City of Kamloops)
- The impact of the phosphorus release changes on the algal biomass in the Thompson River
- The development of a long-term monitoring program, which will be a municipality-industry and government venture.



**client**  
City of Kamloops

**project**  
Environmental Impact Study

**services**  
Technical Information Review; Database Development; Data Review and Interpretation; Liaison with Federal and Provincial Governments

**year**  
2002

**file**  
7.0368.0028.01