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DEVELOPING A STRATEGIC VISION PROJECT BACKGROUND MATERIAL SUMMARY SHEET

1. Title

Summary of Risk Assessment of Kemp Lake as a Raw Water Source

2. Location:

www.kemplakewaterworks.bc.ca

3. Year Published:

December, 2003

4. Brief Summary:

Risk Assessment of Kemp Lake Water was a study undertaken to assess the potentiality and viability of Kemp Lake as a source for safe, clean and potable water (after treatment) for the residents of the area.

The primary concerns and principal sources of possible contamination identified in the report were:

- Drainage from TimberWest adding tannins and lignins, fuel and oil residues to water.
- Wildfire firefighting agents adding chemicals to the water and runoff from wildfire areas with increased organic matter.
- Drainage from Otter Point Collision seeping from tributary of the lake.
- Livestock farming where animals have direct access to lake water adding bacteria and parasites to the water.
- Residential sewage and household hazardous waste.
- Leaks from vehicles and application of road salt.

The report concludes that, given these possible sources of contamination, the poor permeability of the soil and the small size of the lake, Kemp Lake is highly susceptible to contamination. It also states that increased urbanization of the watershed will further degrade water quality.

It recommends that Kemp Lake Waterworks undertake a program of best management practices, watershed stewardship and emergency response planning.

It also recommends that Kemp Lake Waterworks provide water treatment for coagulation, sedimentation, filtration and disinfection **OR** investigate an alternative source of water such as connection to CRD water system.

5. Opinion on Relevance to Project:

Important document to reference with regards to the environmental sustainability of this water source as the area becomes more developed.

6. Categories Covered:

Governance Recreation Economy
Environment Community Development

Others (Specify): _____

7. Reviewer:

Elisabeth Petersen