



Agenda No: 10.1

Mtg Date: Dec 13, 2010

## ENVIRONMENTAL SERVICES DEPARTMENT REPORT

**TO:** Chair & Members of the Regional Board  
**FROM:** Chris Radford  
**DATE:** December 13, 2010  
**SUBJECT:** Killiney Beach Water System

---

### RECOMMENDATION:

**THAT** the Board endorses an application to the Towns for Tomorrow Fund for infrastructure upgrades to the Killiney Beach water system.

### PURPOSE:

To improve water quality, system efficiency and reliability in the Killiney Beach water system.

### POLICY:

The proposed improvements support the North Westside OCP water systems objective and policy by improving overall water quality, supply and water management strategies as well reinforce the Regional Board's commitment to foster responsible water stewardship in the Okanagan as referenced in the Strategic Plan.

### RATIONALE:

- Previous and recent analysis has identified required upgrades to the existing system
- Reservoir design prepared for construction 2006 was not constructed due to insufficient funds
- Identified as eligible project for funding program
- Does not require long-term financing and petition process

## **BUDGET:**

The Towns for Tomorrow program will support 80% funding to a project maximum of \$500,000. The most recent system review for Killiney Beach (November 2010) identifies various upgrades required over the next 20 years. RDCO staff will be reviewing, updating cost estimates and prioritizing projects to ensure that the maximum benefit of this program can be realized. A reservoir expansion design was commissioned in 2006; however a lack of funds did not see the project tendered. This project will be reviewed along with other to meet the \$500,000 threshold. There are sufficient reserve funds to meet the eligibility requirement.

## **BACKGROUND:**

The Killiney Beach water system built in the early 1980's requires upgrades to ensure adequate storage; efficiency and capacity can meet demands. Previous reports have identified both pump and reservoir requirements within the 4 pressure zones.

Further to that a more comprehensive review has been completed that include the Capital requirements to meet the Interior Health water quality objectives, storage requirements and fire flows. The capital plan has been projected over a 20 year term and identifies a proposed cost recovery for user fees and applicable capital reserves.

As a result of the system review report, a phasing strategy will be implemented based on priority and cost of projects. This format would allow the Regional District to have "shelf ready" projects prepared for subsequent funding programs with short deadlines. It is intended to fund the phasing through local service area reserves and applicable grant programs as they become available. The strategy will make every effort to leverage funding based on reserves and avoid long-term borrowing. There may be instances where the users may have to be consulted on required upgrades, where funding is not available and an upgrade is imperative to ensure water quality and efficiency is maintained.

The Towns for Tomorrow Fund has announced a January 14, 2011 final date for applications. Regional Districts are eligible to submit 1 application.

It is anticipated that the improvements of the Killiney Beach water system upgrade will include a new mid level reservoir to add increased capacity up from the current 75, 000 litres, A portion of system reserves in combination with senior government funding will allow the project to proceed without incurring long-term debt.

## **GRANT APPLICATION CRITERIA FOR WATER PROJECTS**

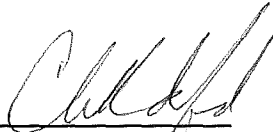
- Feasibility Studies- comprehensive up to date review
- Water Demand Management Strategy – identifying consumption, education, metering
- Reduced GHG emissions – innovations and efficiencies implemented on construction
- Board Resolution
- Funds in place to meet the required contribution on project costs

**ENVIRONMENTAL SERVICES STAFF COMMENTS:**

The result will be a direct benefit to the users as capital expenditures will be supplemented by infrastructure programs and will not require substantial borrowing, incurring long term debt. Efficiencies and water quality will be realized through distribution improvements and increased storage. The expansions and upgrades will also assist in controlling operating costs due to implementation of advanced technology and improved engineered structures.

In closing Killiney Beach has been identified as a system requiring significant upgrades over the next few years.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Chris Radford', written over a horizontal line.

Chris Radford, ASCT  
Director of Environmental Services