## North Westside Regional Water System Project Plan Update

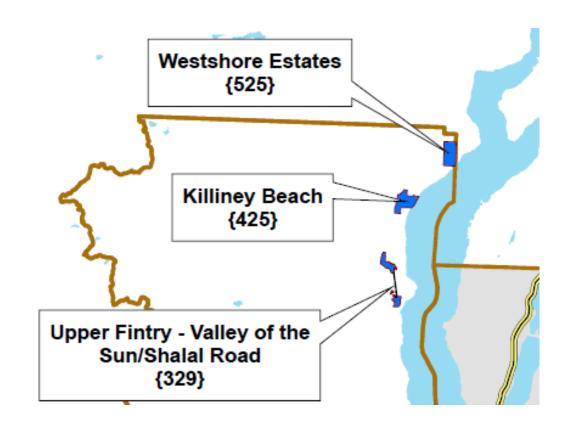
**Regional Board Meeting** 

Nov 28, 2024



## Background

- Killiney Beach and Westshore
   Estates Water Systems are owned and operated by RDCO
- Killiney 425 parcels
- Westshore 525 parcels
- Source water Okanagan Lake
- Not in compliance with Drinking Water Treatment Objectives for Objectives in BC



## Background – Study

- Urban Systems retained to complete study
  - Summary and Evaluation of Supply and Treatment Options
  - Concept Refinement
  - Asset Management Considerations



## Background - Study Options



1A - Fintry Groundwater Supply with Submarine Transmission Main



1B - Fintry Groundwater Supply with Overland Transmission Main



2A – Independent Intakes and Water Treatment Plants



2B – Independent Intakes and Disinfection for Near Term and Common Intake and Water Treatment Plant for Long Term



3 - Common Intake and Water Treatment Plant

## Background - Preferred Option



#### **Considerations included:**

Technical
Financial
Environmental & Regulatory



#### Board Resolution (September 2022):

... the Regional Board support staff preparing a Killiney and Westshore Water System Upgrade project plan for Board consideration at a future meeting based on the recommended Option 1 (A or B) as outlined in the Killiney Beach and Westshore Estates Water Systems Study.



### Preferred Option: 1B - Fintry Groundwater Supply (Overland)

Cost estimate increased from \$13M to \$23M

#### **Asset Renewal Considerations**

- Historical target Asset renewal fees at 50% of target level
  - Killiney Beach +\$300 per year, per water connection
  - Westshore Estates +\$600 per year, per water connection

SYSTEM	ASSET RENEWAL REVENUE (2023)	RESERVE BALANCE (2022)	20 YEAR AVERAGE ANNUAL ASSET INVESTMENT (AAI)*	ANNUAL SHORTFALL
Killiney	\$309,856	\$1,629,837	\$863,652	\$553,796
Westshore	\$405,600	\$2,413,622	\$1,444,076	\$1,038,476

<sup>\*</sup>The 20 Year AAI is shown as current fees are based on the higher of the 20-year AAI and the AACLI.

#### Project Plan 2025 (2025-2029 Financial Plan \$200,000)

#### 1. Advance regulatory approvals

- a. Engage Environmental Assessment Office
- b. Apply for a water licence amendment
- c. Apply for Crown Tenure
- d. Complete indigenous consultation

#### 2. Secure pipeline alignment

- a. Engage land agent to secure the pipeline alignment
- b. Negotiate with private landowners to secure pipeline Right-of-way
- c. Adjust alignment (as required)
- d. Apply for Crown tenure (as required)

# Project Plan 2026 (2025-2029 Financial Plan \$250,000)





#### 1. Complete field investigations

- a. Confirm current and future build out demand data
  - b. Complete lidar survey
  - c. Complete topo survey
  - d. Complete Geotech investigation
- e. Confirm preferred area for future larger well and retain space
  - f. Confirm max pumping rates

#### 2. Advance Design

- a. Confirm estimated timeline to reach buildout demands
- b. Prepare preliminary plan/profile drawings
  - c. Prepare community connection details
- d. Prepare floor plan for chlorine boosting station at Firwood reservoir
  - e. Prepare Class C cost estimate

#### Recommendation

All Directors - Unweighted Corporate Vote - Simple Majority (LGA s.208)

**THAT** the Regional Board receives the North Westside Regional Water System Project Plan Update report from the Associate Director, Engineering Services dated November 28, 2024, for information.