

# Managing Tap into It! your water



The City of Parksville and the Regional District of Nanaimo (Nanose Bay Peninsula) are moving forward with an expansion to the drinking water supply which will ensure a safe and secure water system for the community. The project includes:

- In-river water supply intake designed/ located to consider needs of river users and protect aquatic habitat.
- Water treatment plant with a minimum of 16 million litres per day of membrane filtration capacity to comply with new water regulatory treatment standards.
- Transmission supply mains to homes and businesses.



englishman river  
WATER SERVICE

www.englishmanriverwaterservice.ca  
www.parksville.ca www.rdn.bc.ca

twitter.com/City\_Parksville #ERWS  
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## What is the Englishman River Water Service?

The ERWS is a joint venture between the City of Parksville and the Regional District of Nanaimo, formed to secure a bulk water supply from the Englishman River. This regional partnership supplements existing well supply sources owned and operated by the City of Parksville and Nanose Bay Peninsula Water Service Area.

## Why is this project necessary?

To ensure a safe and secure water system is available for now and the future. Island Health has mandated the improvement of water quality standards for surface water (river water) with a deadline for compliance of December 31, 2016.

## What is the timeline for this project?

Construction of the river intake is the next phase of improvement for our community's water supply following construction of the Arrowsmith Dam in 1999. Design of the intake is underway with construction scheduled for June 2016 followed by design and installation of the water treatment facility, scheduled for operation in summer 2018.

It is important to understand the consequences of a **YES** or **NO** vote.

### What happens if we VOTE YES?

Long-term borrowing of \$5.6 million is approved.

Phase 1 project and improvements will proceed.

Lower risk of water supply issues; will be able to meet water demands for fire protection and peak demands.

Improved water quality with membrane filtration, ultra-violet light and chlorine disinfection.

Upon completion, system will comply with Island Health drinking water standards.

Costs are shared by customers over next 25 years with less reliance on current user fees.

Project completion by June 2018.

### What happens if we VOTE NO?

Long-term borrowing of \$5.6 million is not approved.

Water project and improvements will not proceed.

Higher risk of water supply issues – insufficient protection against fire, emergency and peak demands. Further water conservations measures will be required.

Higher risk of water quality advisories without improved filtration, disinfection.

Non-compliance with Island Health mandated standards will require Boil Water Advisory.

Costs are uncertain and higher overall costs can be expected.

Timeline is uncertain and will be based on available funds to complete the project.

## How will this project be funded?

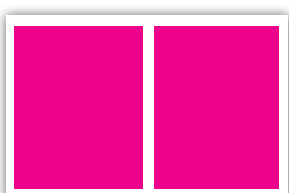
Earlier this year, the project received \$6 million in funding from the Government of Canada and the Province of BC through the New Building Canada Fund: Small Communities Fund. The \$28.3 million project will be shared based on ownership in the joint venture; Parksville 74% and RDN 26%. Costs will be spread out over the next 25 years with less reliance on current user fees. To provide for the anticipated annual operating and capital costs as well as the future \$5.6 million debt retirement costs, annual water rate increases for water services for the City of Parksville will increase between 2.25% to 2.5% for the years 2016 through 2024; **about \$10 per year for an average household**. To estimate individual increases, residents should add the WATER charges shown on their April and October 2015 utility bills and increase the sum by 2.5%.

ERWS Water Treatment, Intake and Transmission Mains	In \$ Millions		
	Total	Parksville Share	RDN/Nanose Share
Water treatment plan	\$15.0	\$11.1	\$3.9
River intake/raw water supply main	6.5	4.8	1.7
Springwood transmission main	4.0	4.0	
Craig Bay transmission/pump station	1.8		1.8
Joint transmission mains	1.0	.7	.3
<b>Total</b>	<b>\$28.3</b>	<b>\$20.6</b>	<b>\$7.7</b>

### Funding Sources

Federal and provincial grants		\$4.4	\$1.6
Gas tax funding		1.0	.6
Borrowing		5.6	2.6
Accumulated development cost charges		3.8	
Water fund accumulated surplus and carry forward reserves		5.8	2.9
<b>Total</b>		<b>\$20.6</b>	<b>\$7.7</b>

- 75% of the intake and transmission mains will be paid for by development costs.
- 50% of the water treatment plant will be paid for by development costs.



Insertion date: Nov 12 | Left page of centre spread

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Contact information: Deb Tardiff - City of Parksville - 250 954-3073 | Design/files - ValerieCapewell capewelldesign@gmail.com

# Future Water Supply System

# future water

## Water Treatment Plant

To lessen initial costs, ERWS is proceeding with a reduced phased approach which includes water treatment capacity of 16 million litres per day of membrane filtration, ultra-violet light (UV) and chlorine disinfection.

### Benefits

- Reduced health risks
- Improved water quality
- Ensures customers receive best quality water year round
- Will meet Canadian Drinking Water Guidelines



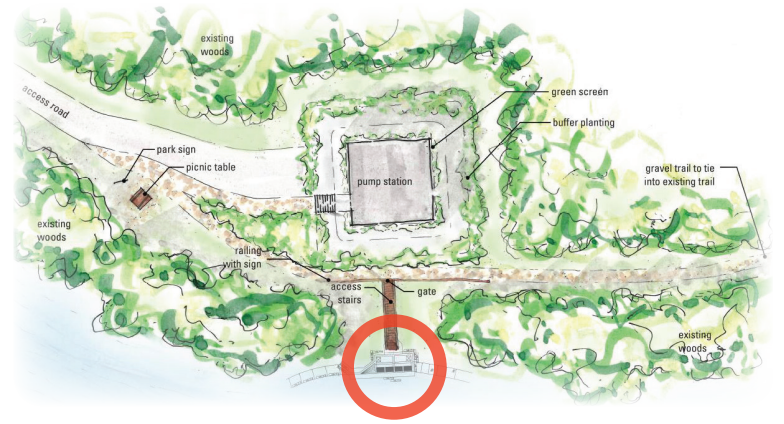
Location: Existing City operations on Herring Gull Way

## River Water Intake

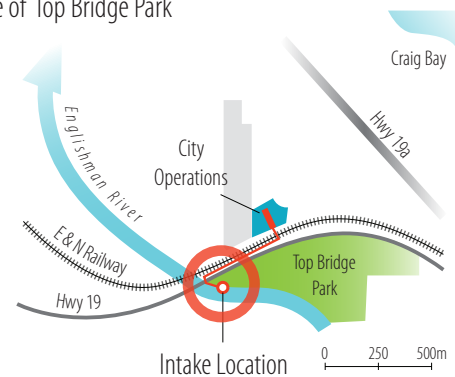
Using a sustainable approach weighing environmental, financial and social factors and in consultation with Department of Fisheries and Oceans, health authorities, provincial fisheries and regulators, the best location as approved by the province is just above Highway 19 on the right bank in Top Bridge Park. The intake is a river side inlet structure.

### Benefits

- River fishery
- Community water supply for the future
- Increases amount of water available for fire, emergency and peak demands
- Less maintenance
- Less risk of contamination (upstream of most urban development)



Location: From the edge of Top Bridge Park



## Assent Voting Opportunity

On November 21, the citizens of Parksville will participate in an "assent voting opportunity" (previously called a referendum). Voting day is November 21 with two advance voting opportunities. The process is conducted in the same manner as an election. The City of Parksville is asking residents to approve a bylaw to authorize the borrowing of up to \$5.6 million to construct a new water intake, water treatment plant and transmission lines. The assent voting question will read as follows:

*Do you agree to the adoption of City of Parksville Loan Authorization Bylaw, 2015, No. 1519 which will authorize the City of Parksville to borrow \$5.6 million to construct a water intake and treatment facility in accordance with Island Health requirements.*

### Mark your calendars!

The assent voting opportunity will be held on Saturday, November 21 from 8 am to 8 pm at the Parksville Community and Conference Centre and the Parksville Fellowship Baptist Church. Advance voting will be held on Thursday, November 12 and Wednesday, November 18 from 8 am to 8 pm at the Parksville Community and Conference Centre.

### Advance voting days

**Thursday, November 12 8 am – 8 pm**  
Parksville Community and Conference Centre  
**Wednesday, November 18 8 am – 8 pm**  
Parksville Community and Conference Centre

### Voting day

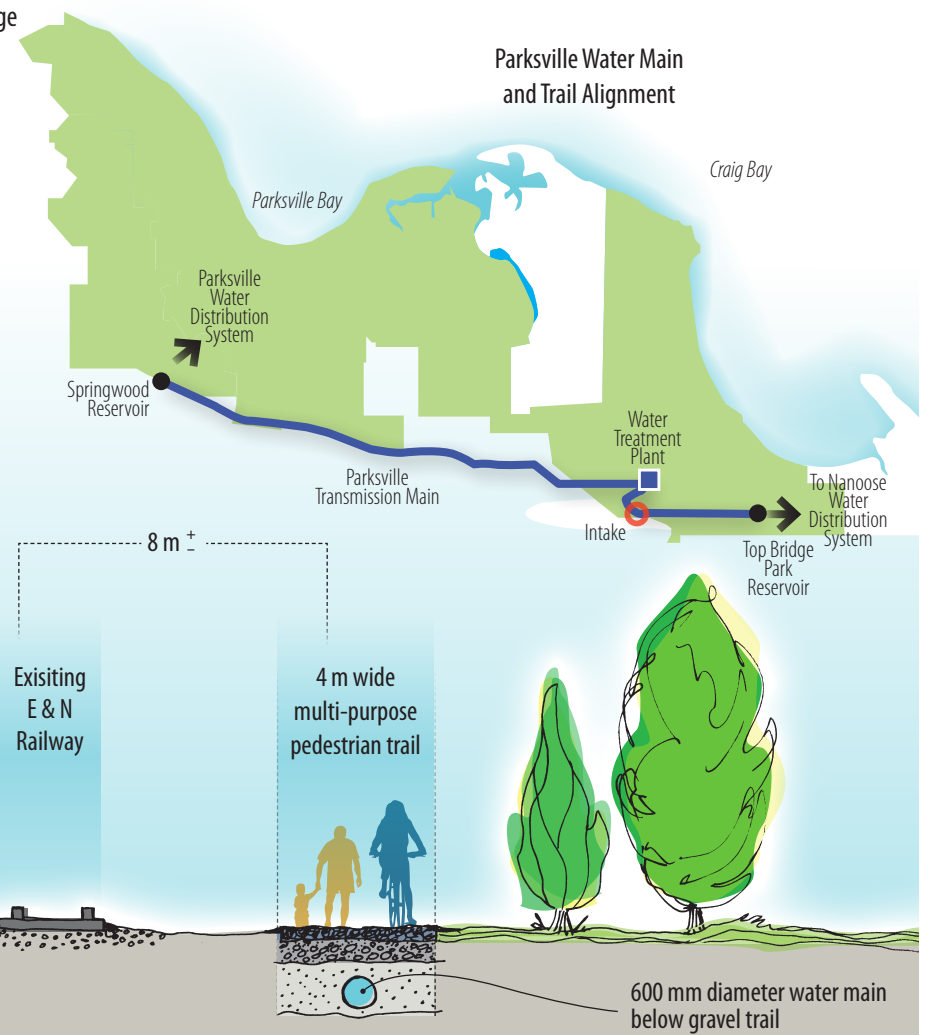
**Saturday, November 21 8 am – 8 pm**  
Parksville Community and Conference Centre  
Parksville Fellowship Baptist Church

## Water Supply Transmission Mains

The transmission mains will deliver treated water from the treatment plant directly to the above ground reservoirs located in Top Bridge and Springwood Parks. With the construction of the transmission main along the E & N Railway and Top Bridge Park, opportunity exists to build a trail over top of the water main which will further enhance the community's walkable pedestrian network and provide a strong east to west connection from Top Bridge to Springwood Park.

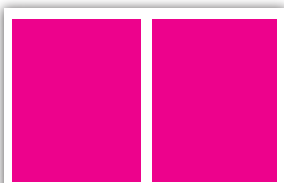
### Benefits

- Multi-purpose pedestrian trail aligned with water main
- Increased supply and improved firefighting
- Improved water quality
- Enhanced operation and ability to efficiently deliver water demands



Proposed Parksville Transmission Main Alignment – Looking North

An environmentally sensitive use of water to improve fish habitat and domestic water supply.



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