

# Welcome



09/01/2017 Artist rendering - Subject to change

## Welcome to the Core Area Wastewater Treatment Project Update Open House.

The City of Victoria and the Township of Esquimalt are processing rezoning applications to allow improvements to the pump stations, pipelines and the wastewater treatment plant. In addition, the CRD is applying for a development permit for the wastewater treatment plant at McLoughlin Point.

As part of these processes, our team is here to provide you with information and respond to your questions. In particular, we understand that the pipeline construction that will start at Ogden Point and go under the harbour (Harbour Crossing) to McLoughlin Point is of interest to your neighbourhood.

# Core Area Wastewater Treatment Project

In September 2016, the CRD approved the Core Area Wastewater Treatment Project Board's proposal for wastewater treatment in the Core Area which would comply with the law and preserve senior government funding for sewage treatment.

## The Core Area Wastewater Treatment Project consists of three main elements:

### WASTEWATER TREATMENT PLANT

Located at McLoughlin Point, the treatment plant will provide tertiary treatment to the core area's wastewater.

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### RESIDUALS TREATMENT FACILITY

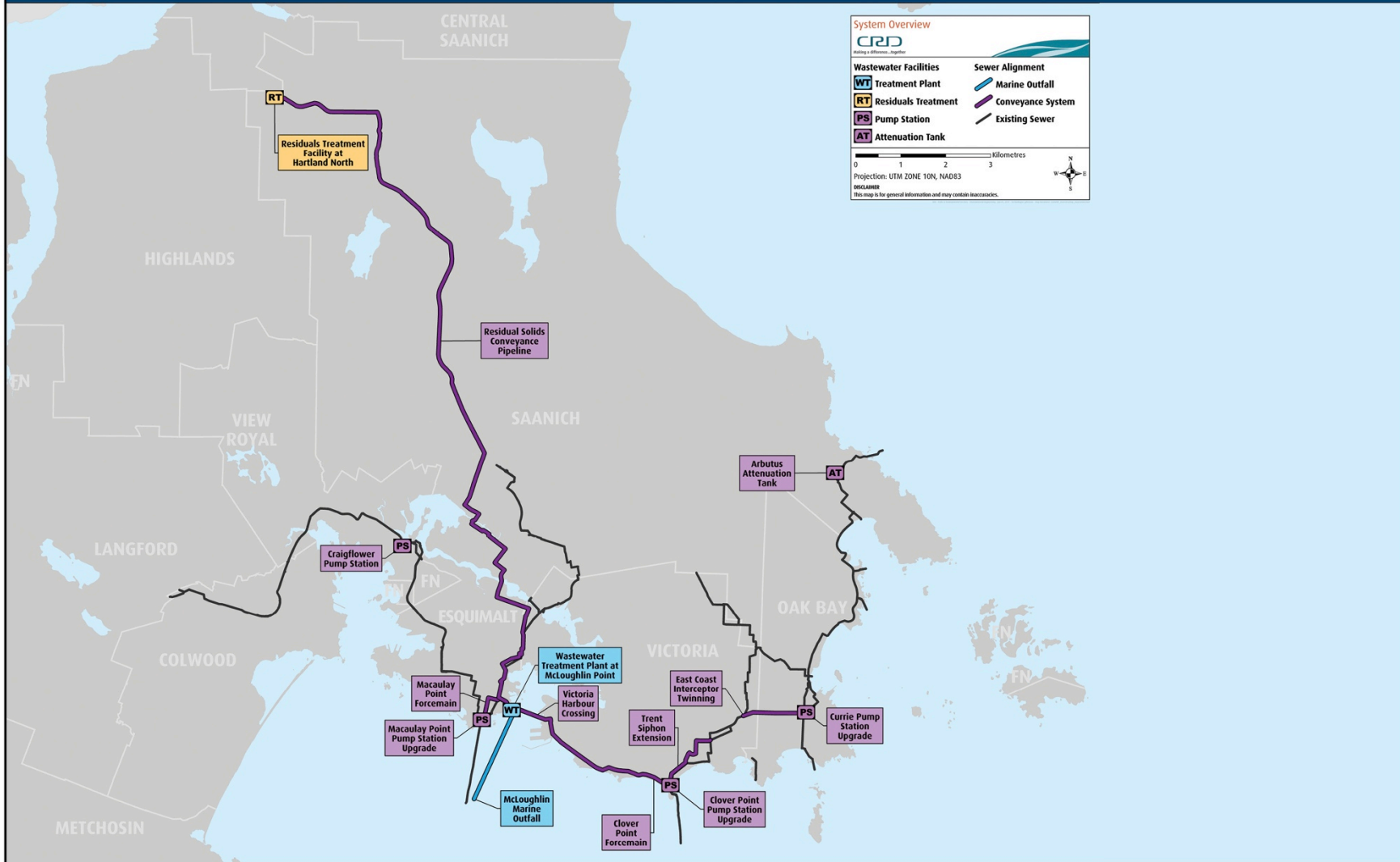
Residual solids from the wastewater treatment plant will be piped to Hartland landfill, where they will be turned into what are known as "Class A" biosolids. These biosolids are a high quality by-product treated such that it is safe for further use.

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### CONVEYANCE SYSTEM

The conveyance system refers to the 'pumps and pipes' of the Core Area Wastewater Treatment Project. This system will carry wastewater from across the core area to the treatment plant. It will also send residual solids from the wastewater treatment plant to the residuals treatment facility.

# Overview Map



# How We Got Here

The approved Wastewater Treatment Plant design at McLoughlin Point is significantly revised from earlier plans to respond to the interests of the surrounding community:



It is further set back from the shoreline



It has extensive landscaping and a multi-level green roof irrigated with treated water



Further refinements to the exterior of the wastewater treatment plant and landscaping to address Design Review Committee and other input as part of the development permit process in Esquimalt are budgeted



The plant will go beyond secondary treatment and include tertiary treatment, providing even better protection of the marine environment



Odour control systems will reduce odour emissions to a level not detectable by humans at the property line



# Project Goals



The approved Core Area Wastewater Treatment Project met all the goals set out by the CRD.

## Goal

## Measurement

**MEET FEDERAL REQUIREMENTS FOR SECONDARY TREATMENT BY 2020**

Exceeded – wastewater will have tertiary treatment

**MINIMIZE COSTS TO RESIDENTS**

The capital cost of the proposal is approximately \$765 million; it is less expensive than previous plans and less expensive than the other short listed options (\$920 million for Rock Bay and \$1,010 million for a two plant solution at Rock Bay and McLoughlin Point); the proposal meets the deadline for federal funding, minimizing the risk of losing senior government funding

**OPTIMIZE OPPORTUNITIES FOR RESOURCE RECOVERY**

The plan includes a smaller investment than prior plans in the treatment of residual solids. As part of the plan there is a proposal for the CRD to engage in a separate comprehensive planning and consultation process to develop a waste management policy, including management of its solid and biosolid waste streams as part of an integrated resource management plan.

**REDUCE GREENHOUSE GAS EMISSIONS**

The plan reduces greenhouse gas emissions by 5-10 per cent, when compared with previous plans which included driers, pelletizing of biosolids, and hauling pellets to cement plants and other end users, who would be paid to take the product

**ADD VALUE TO THE SURROUNDING COMMUNITY AND ENHANCE LIVABILITY OF NEIGHBOURHOODS**

The plan recognizes that the wastewater and biosolids treatment facilities have external impacts:

- rather than co-locating the facilities, they are separated: one in Esquimalt; one in the existing Hartland landfill in Saanich, and the impacts of conveyancing are shared
- the impact of construction is distributed with a laydown area located in Rock Bay, Victoria
- the plan includes significant revisions to the wastewater plant design in response to public commentary and includes an allowance for further design revisions
- the plan recommends a program to improve the appearance of CRD sewage collection and treatment facilities, mitigating their impact on the host communities

# Development Permit and Rezoning Process

There are two different approval processes underway:

- a development permit application process which is initiated by the CRD, and
- a rezoning process led by the Township of Esquimalt.

## CRD DEVELOPMENT PERMIT PROCESS

**DEC 20, 2016**

Development permit application submitted by CRD/Project Board/  
Harbour Resource Partners

**JAN 11, 2017**

Design Review Committee

**JAN 12, 2017**

Wastewater Treatment Plant Open House

**JAN 14, 2017**

Wastewater Treatment Plant Open House

**FEB 27, 2017**

Council consideration of adoption of Zoning Amendment Bylaw;  
consideration of issuance of development permit

## TOWNSHIP OF ESQUIMALT REZONING PROCESS

**JAN 17, 2017**

Advisory Planning Commission (rezoning)

**FEB 6, 2017**

Council consideration of first and second reading Zoning  
Amendment Bylaw

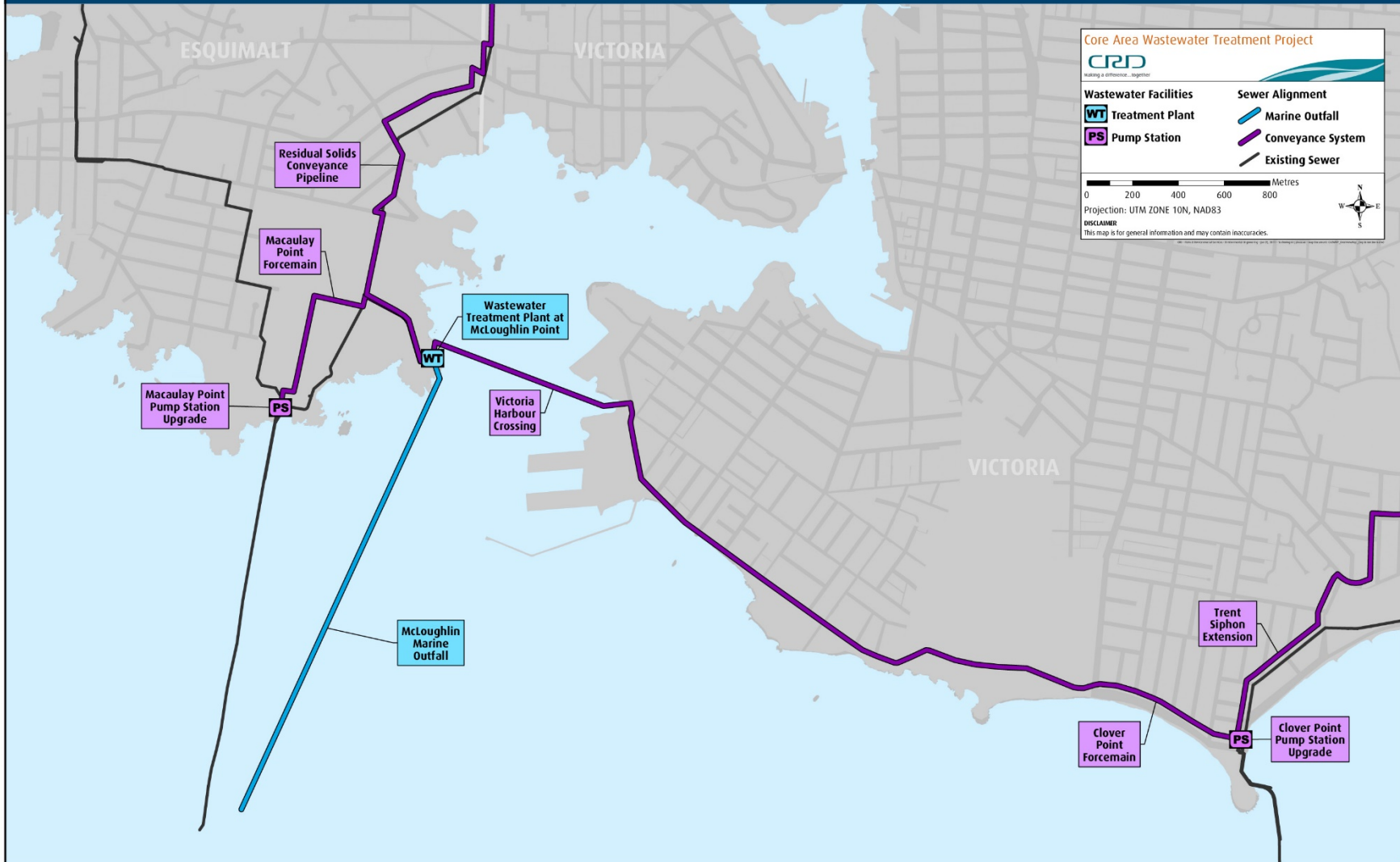
**FEB 20, 2017**

Council public hearing for Zoning Amendment Bylaw  
(including all related amenity and other relevant agreements)

**FEB 27, 2017**

Council consideration of adoption of Zoning Amendment Bylaw;  
consideration of issuance of development permit

# Core Area Wastewater Treatment Project



**Core Area Wastewater Treatment Project**

**Wastewater Facilities**

- WT Treatment Plant
- PS Pump Station

**Sewer Alignment**

- Marine Outfall
- Conveyance System
- Existing Sewer

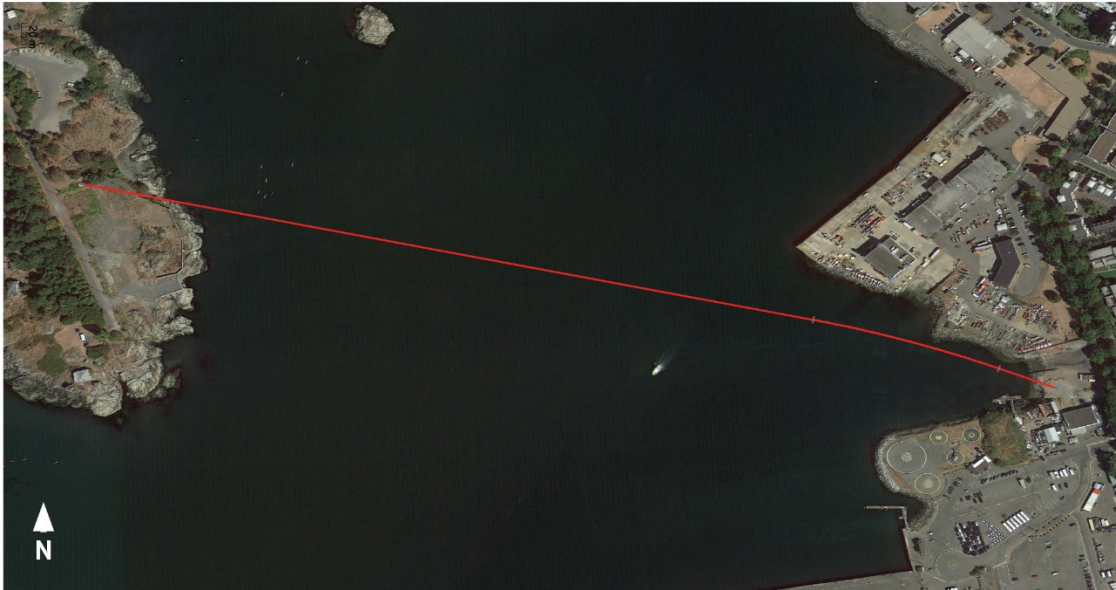
0 200 400 600 800 Metres

Projection: UTM ZONE 10N, NAD83

**DISCLAIMER:**  
This map is for general information and may contain inaccuracies.

# Harbour Crossing

## HARBOUR CROSSING MAP



09/01/2017 - Horizontal directional drill path

## HARBOUR CROSSING CONSTRUCTION TIMELINE

2 WEEKS

Set up of equipment

12 MONTHS

Drilling operations

2 WEEKS

Site removal and clean up

2 WEEKS

Casing installation

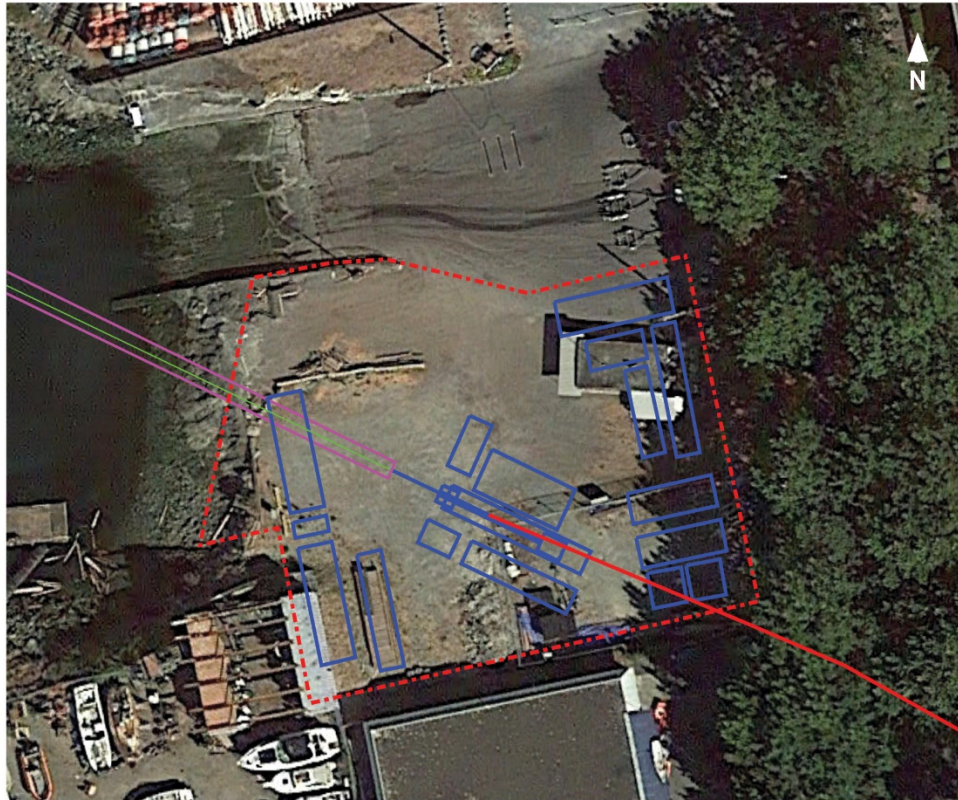
5 WEEKS

Pipe preparation and pull



# Ogden Point Work Site

## OGDEN POINT MAP

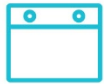


### LEGEND

- Site fencing
- Equipment / facilities
- Below ground steel casing
- Below ground HDD path
- Pipe path during pull

09/01/2017 - HDD equipment layout

# Hours of Work



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## MONDAY TO FRIDAY

7:00am to 7:00pm

## SATURDAY

8:00am to 5:00pm

## DURING PIPE PULL OPERATION (2 WEEKS)

24hrs/day



# Construction Impact Mitigation Measures



Construction of the McLoughlin Point Wastewater Treatment Plant is expected to begin with geotechnical investigations in January 2017. The project will be completed by the end of 2020.

A key consideration during the construction will be potential impacts on the surrounding community.

All construction activity will comply with bylaws regarding hours of work and noise levels, and regular communications from the project team will ensure residents receive advance notification of work activities in the community.

**More information on the project and further details regarding construction and impact mitigation measures will be shared with the public in the future.**