Liquid Waste Management Plan

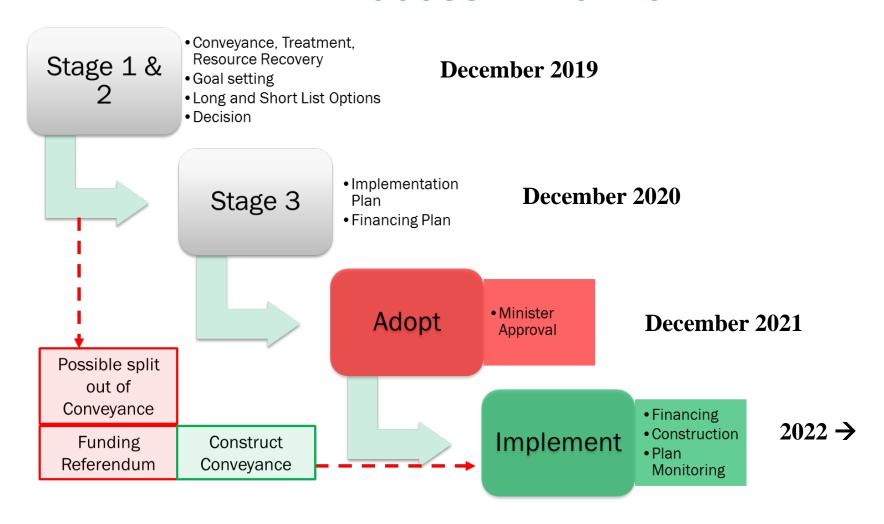
Presentation to the Sewage Advisory Committee



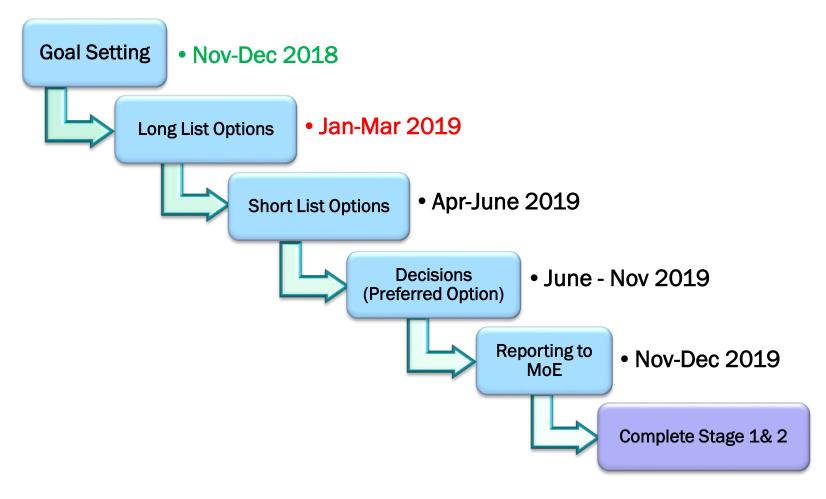
Regional Infrastructure



LWMP Process Timeline



Where We Are At - timeline



LWMP Components and Objectives

Conveyance (Pump Station & Pipes)

Identify optimum long term conveyance solution

Treatment

Identify level of treatment for upgraded CVWPCC

Resource Recovery

 Identify opportunities to extract resources from treatment process



Conveyance Constraints



Conveyance Long List of Options

1. Estuary Alignments (3 options)

Installation of new forcemain within or along foreshore from CPS to CVWPCC

2. Overland Alignments (2 options)

Installation of new forcemain overland from CPS to CVWPCC

3. Tunneling Alignments (3 options)

• Installation of new forcemain though the Comox Rd. and Lazo Rd. Hills

4. Northside Alignment Concept

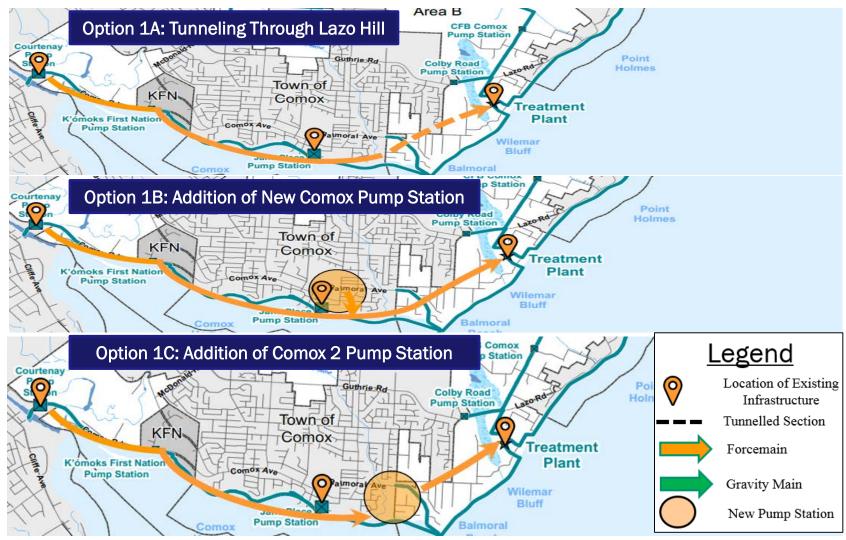
• Installation of new separate forcemains from CPS and from Jane PI PS to CVWPCC

5. Decentralized Treatment Concept

Building a new treatment plant in Courtenay and pump treated effluent to the outfall

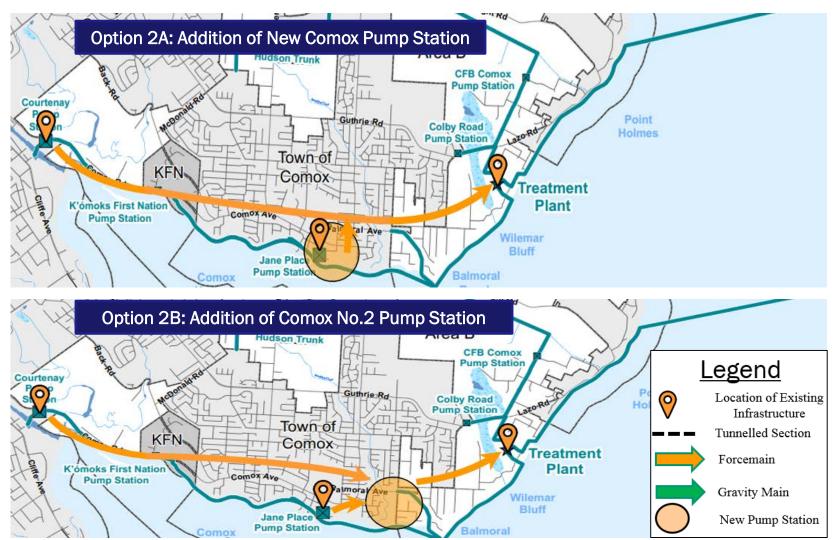


Option 1: Estuary Alignments



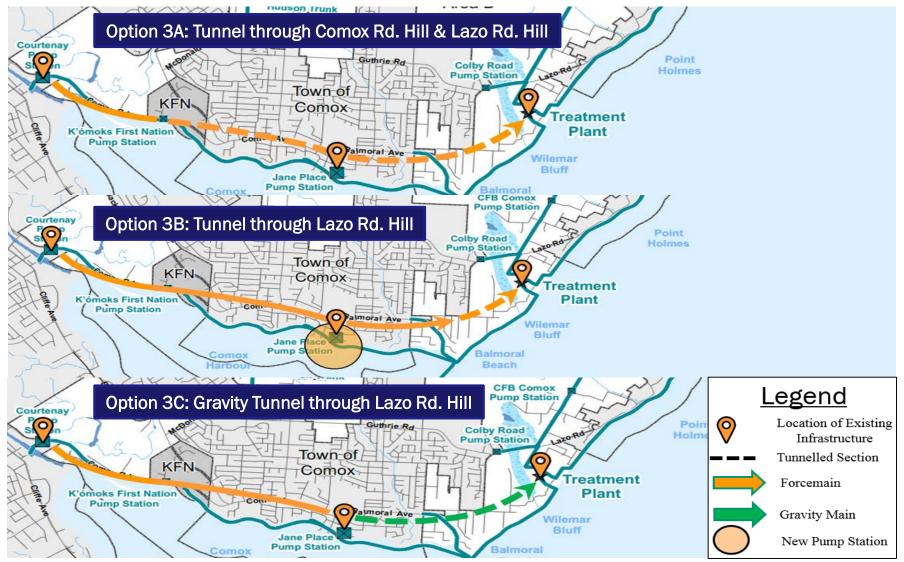


Option 2: Overland Alignments

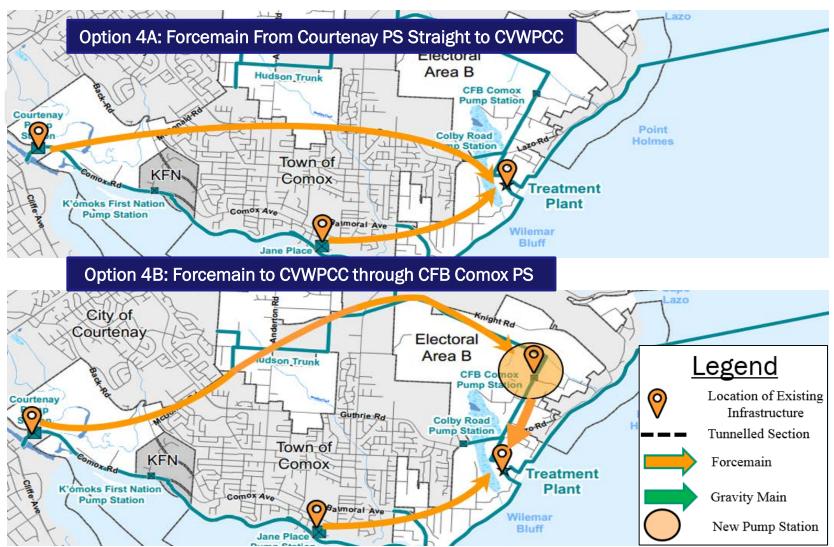




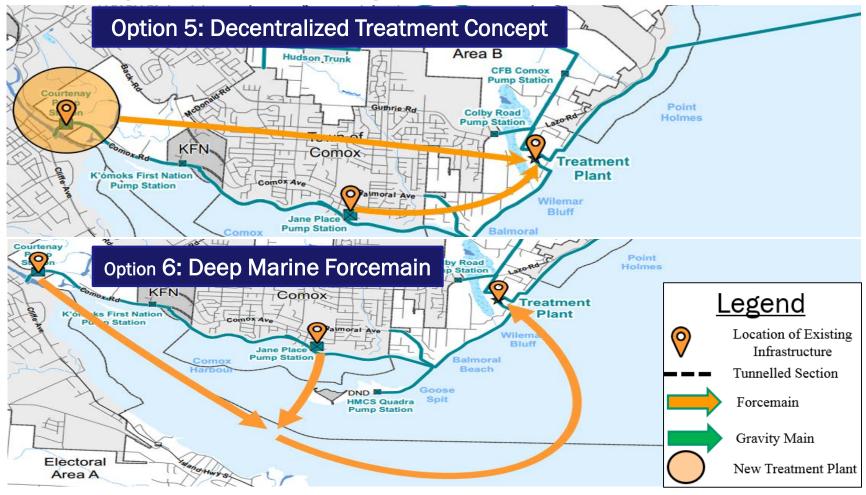
Option 3: Tunneling Alignments



Option 4: North Side Concept



Option 5: Decentralized Treatment Option 6: Deep Marine Forcemain



Treatment Options

Option 1: Meets minimum regulatory requirements

Option 2: Secondary treatment for all flows

Option 3: Advanced/filtration for flows up to two times Average Dry Weather Flow

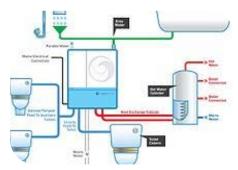
Option 4: Advanced/filtration for all flows



Resource Recovery Options



Reclaimed Water



Heat Recovery



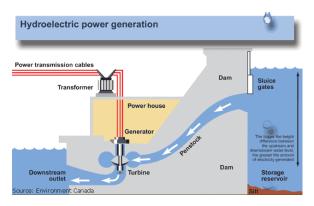
Compost Production



Biogas Production



Fertilizer Pellets
Production



Hydro-electric Power Generation



Next Steps

Prepare Conceptual Studies and Class 'D' costs of the long list of options (WSP)

Develop short list of options using evaluation system (TACPAC, March 22)

Consult with the KFN Chief & Council about the short list of options (CVRD, week of March 25)

Approve the short list of options (sewage commission, April 16)



Liquid Waste Management Plan

LONG LIST PUBLIC CONSULTATION



Level of Engagement

Increasing level of public involvement in decision-making

INFORM	CONSULT	INVOLVE	COLLABORATE	EMPOWER
Present the Long List	Determine if any options are missing red flags, other considerations		Feedback to Public Advisory Committee	

Engagement Summary

497
Online Visits

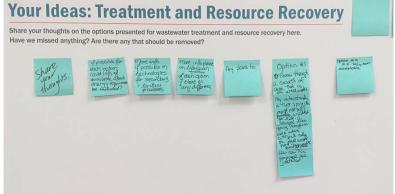
Session
Attendees

111
Survey Visits

Information Sessions







Themes of Feedback



Protection of the foreshore



High treatment standards



Consider the cost



Comox 2 opposition

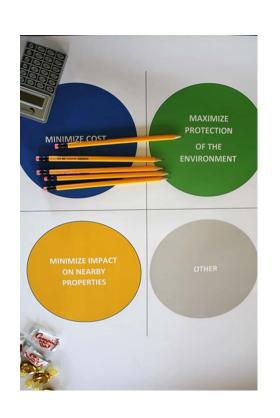


Feedback from KFN Chief & Council

 Support for LWMP objective Conveyance No support for estuary alignments Support for UV disinfection of treated effluent **Treatment** Timely and meaningful consultation Consultation Workshops for the KFN community



Engagement Milestones





LONG LIST Complete

SHORT LIST - Conveyance April - June 2019

PREFERRED OPTION - Conveyance
Summer 2019

PREFERRED OPTION – Treatment Fall 2019



LWMP Public Consultation Plan

QUESTIONS?

