

About the Conveyance Project



Urgent need
identified by Liquid
Waste Management
Plan

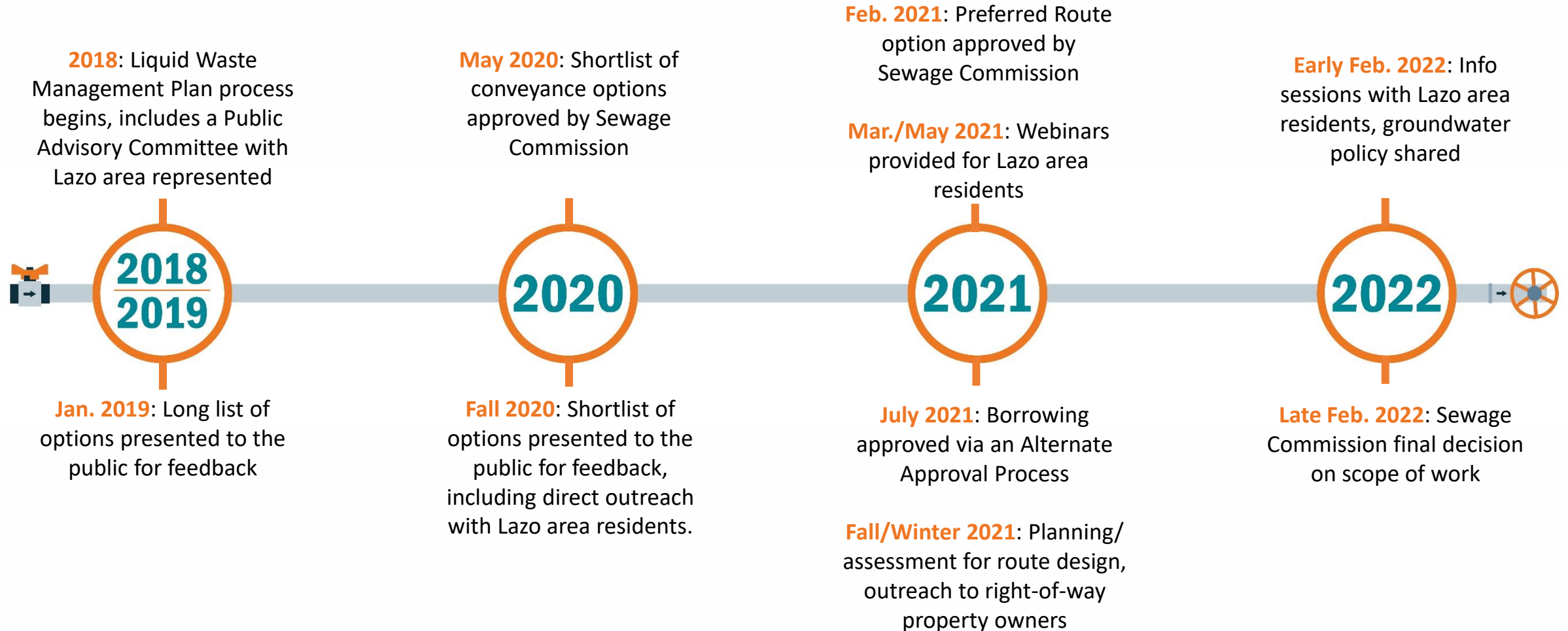
Upgrade to pipes +
pump stations

Protect estuary,
beach + Baynes
Sound

Move pipes inland
away from water

Construction start
spring 2023

Timeline to date



Route Updates

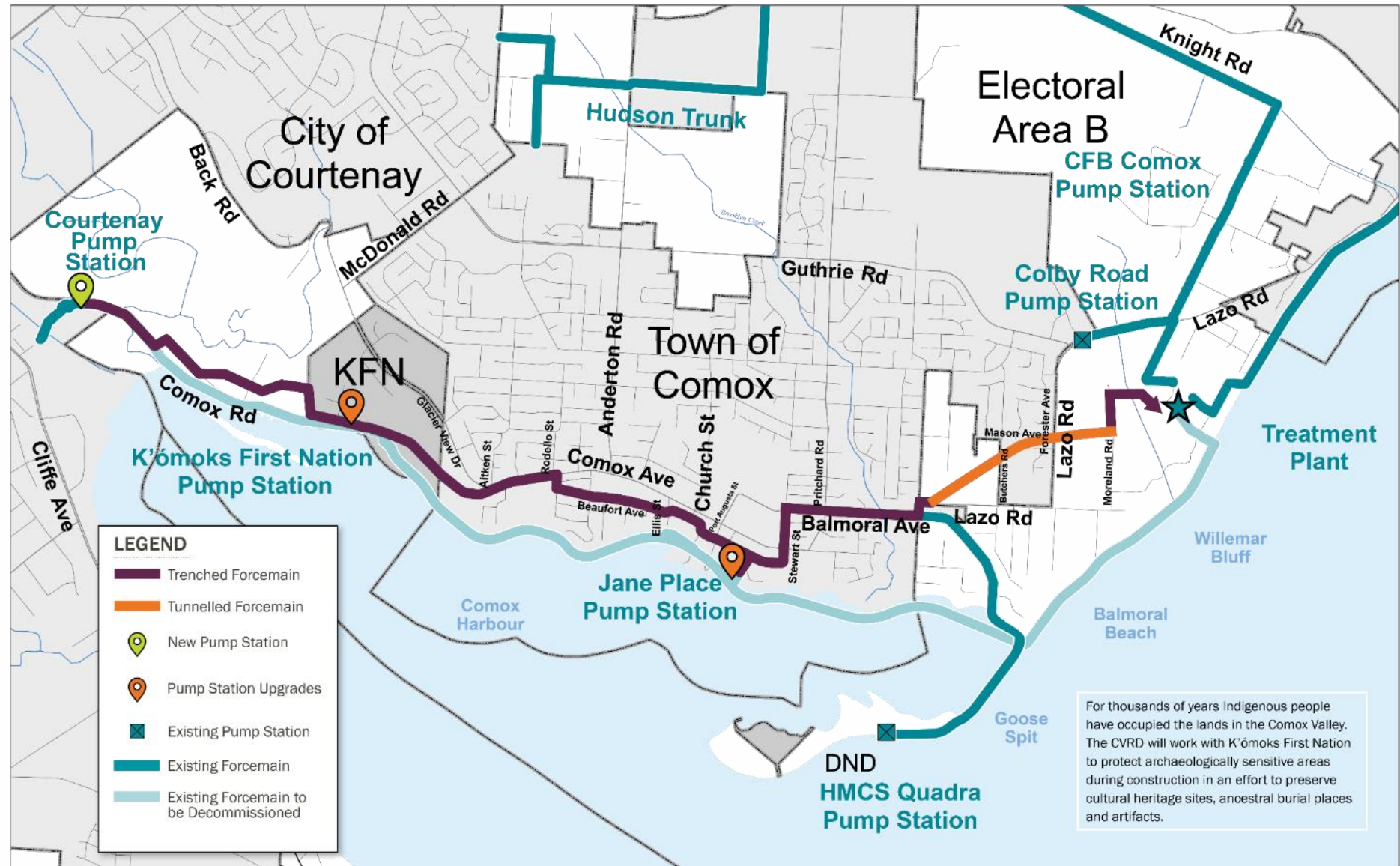
Rebuild/relocate Courtenay Pump Station

Move away from archeological significant area

Trenching/cut and cover at Comox Hill

Move portion from Comox Avenue to Beaufort Avenue

Consider further options for Lazo Marsh



Lazo Area Outreach: What we've heard



“
Impact to wells
and groundwater
”



“
Aquifer
Protection
”



“
Leak detection
and emergency
response
”



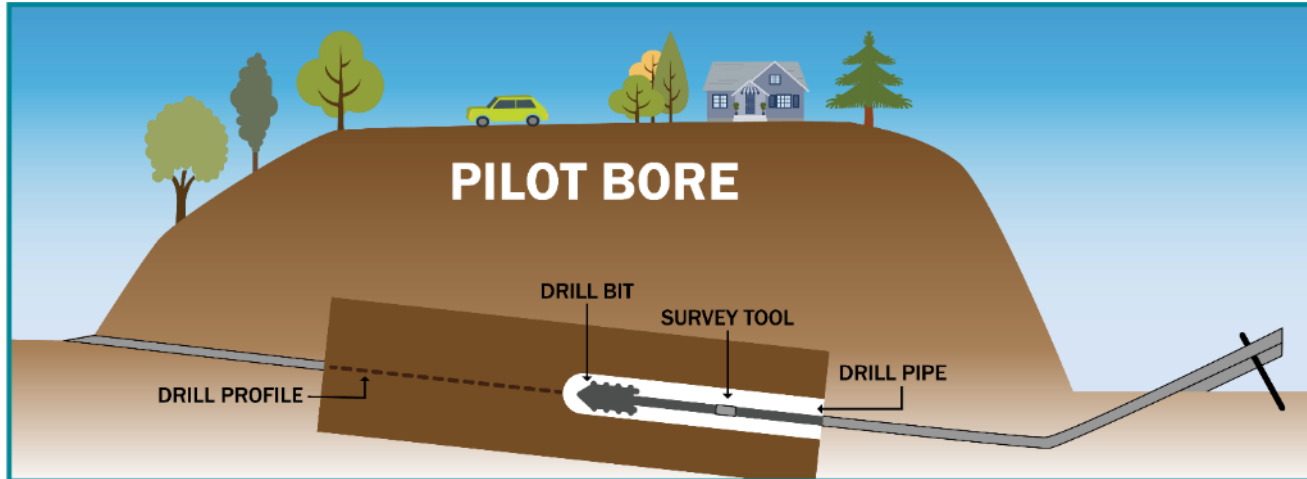
“
Neighbourhood and
property impacts
”

What we've been working on

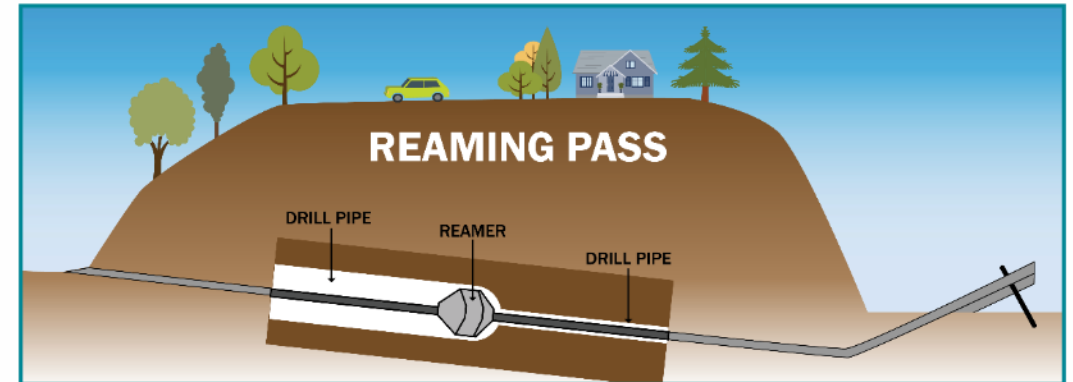


- ✓ Retain engineer and drilling experts
- ✓ Detailed review of hydraulics
- ✓ Continued groundwater assessment
- ✓ Refine route map to avoid wells, reduce right-of-way and lay-down impacts
- ✓ Update cost estimates to use High Density Polyethylene Pipe (HDPE) and gravity flow at Lazo Hill
- ✓ Additional geotechnical testing

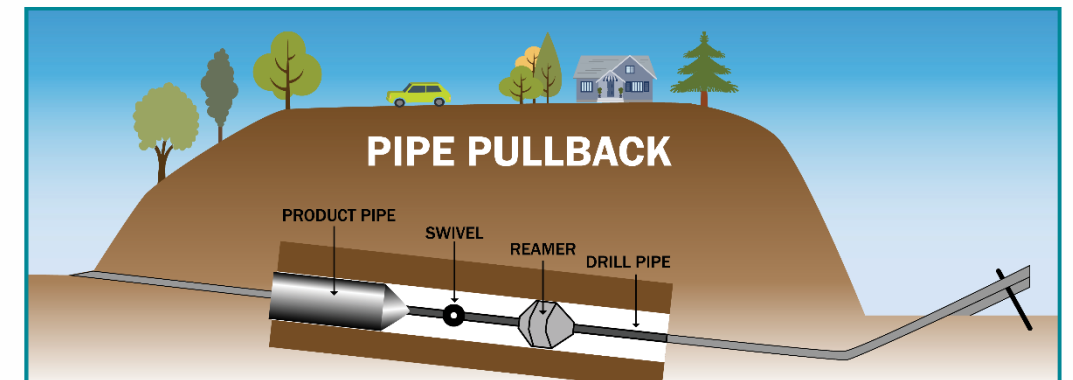
About Horizontal Directional Drilling (HDD)



1. Pilot bore: A process called a pilot bore established the underground path for the new sewer pipe.



2. Reaming Passes: The contractor will enlarge the tunnel to the final pipe size using multiple passes of a reamer. A bentonite-based drilling fluid 'Mud' keeps the borehole stabilized – the drilling mud is collected and recycled.



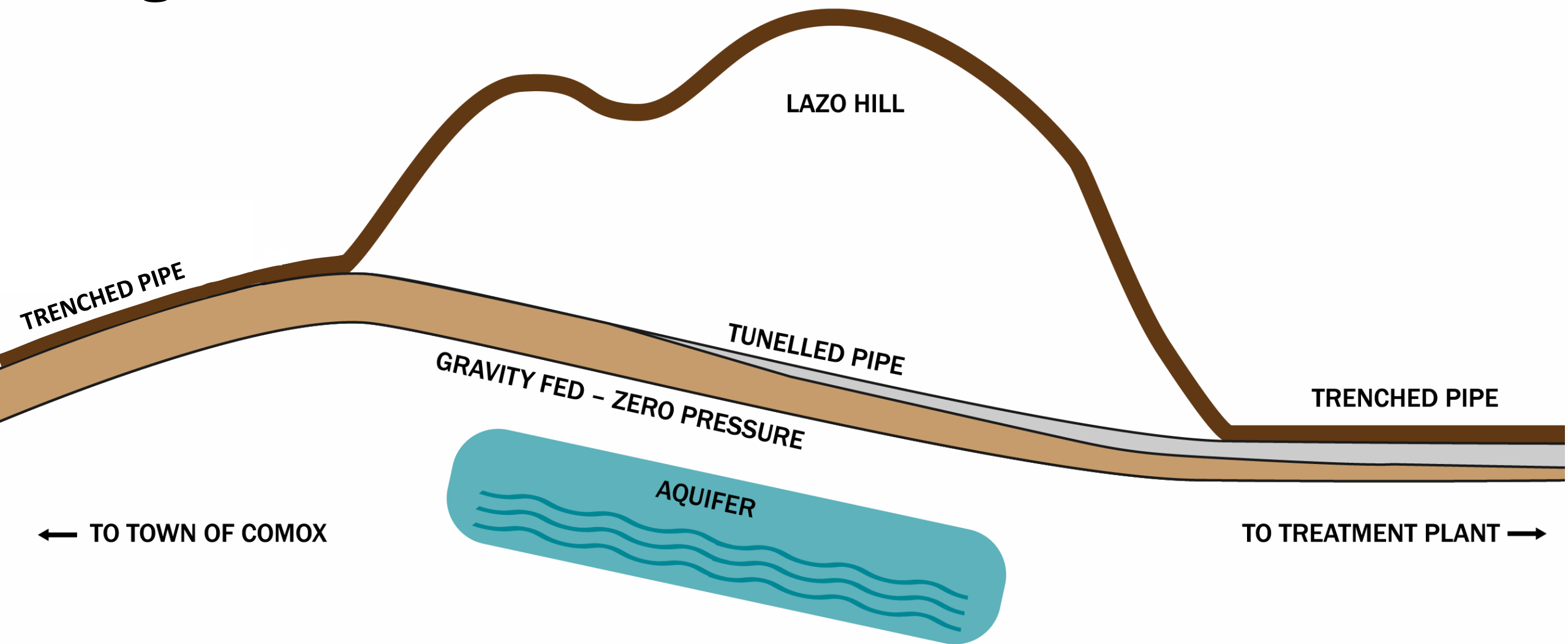
3. Pipe Pullback: The pipeline is assembled at surface in a long single string and is then pulled through the tunnel into its final position.

Lazo Hill Alignment

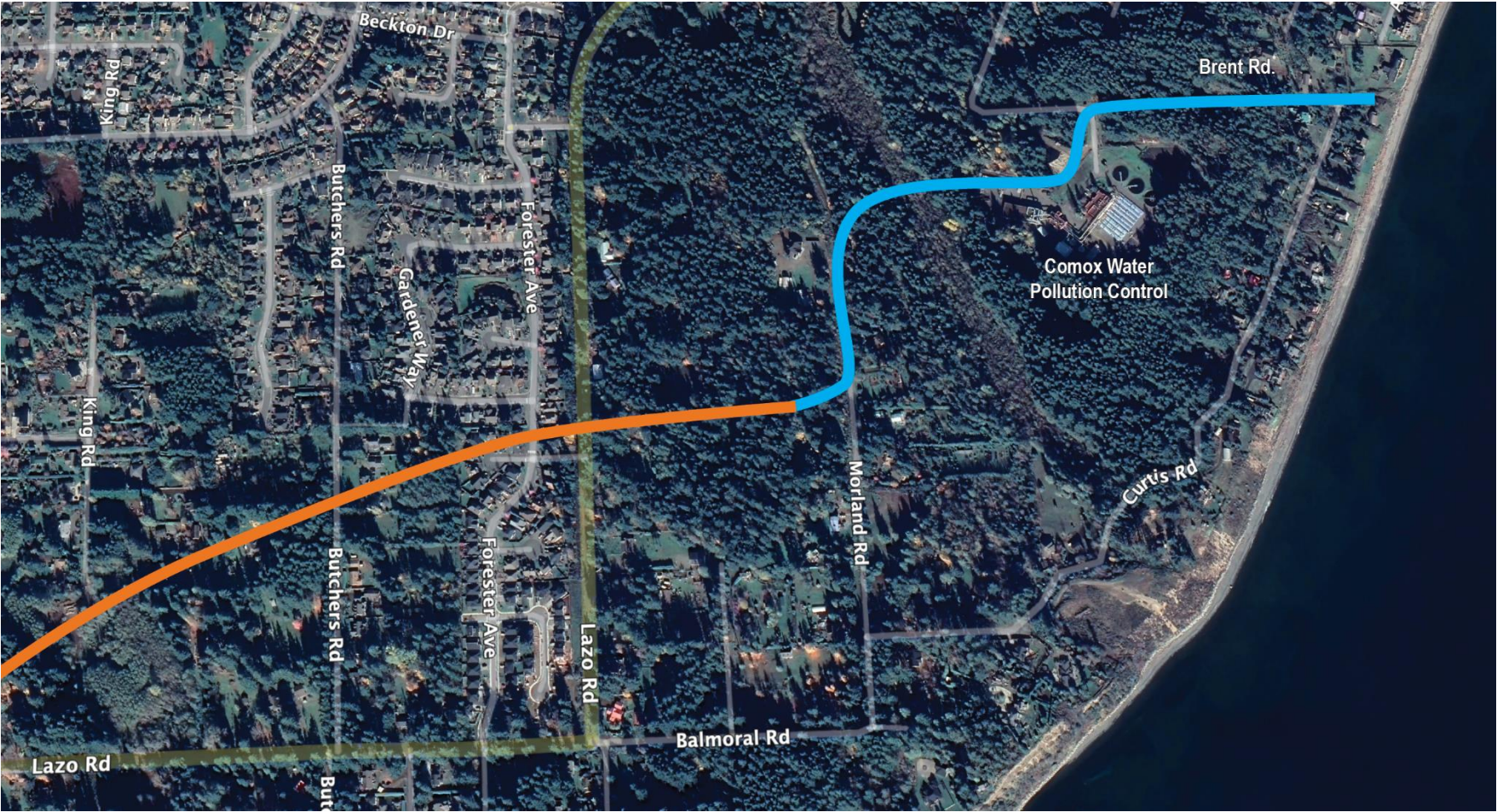
- ✓ Single shorter HDD Line
- ✓ Minimum 20m offset from all deep groundwater wells
- ✓ Impacts fewer properties
- ✓ Reduces disruption from lay-down area
- ✓ Update to HDPE
- ✓ Gravity flow through Lazo Hill
- ✓ Locate pipe out of aquifer



Designed Risk Reduction



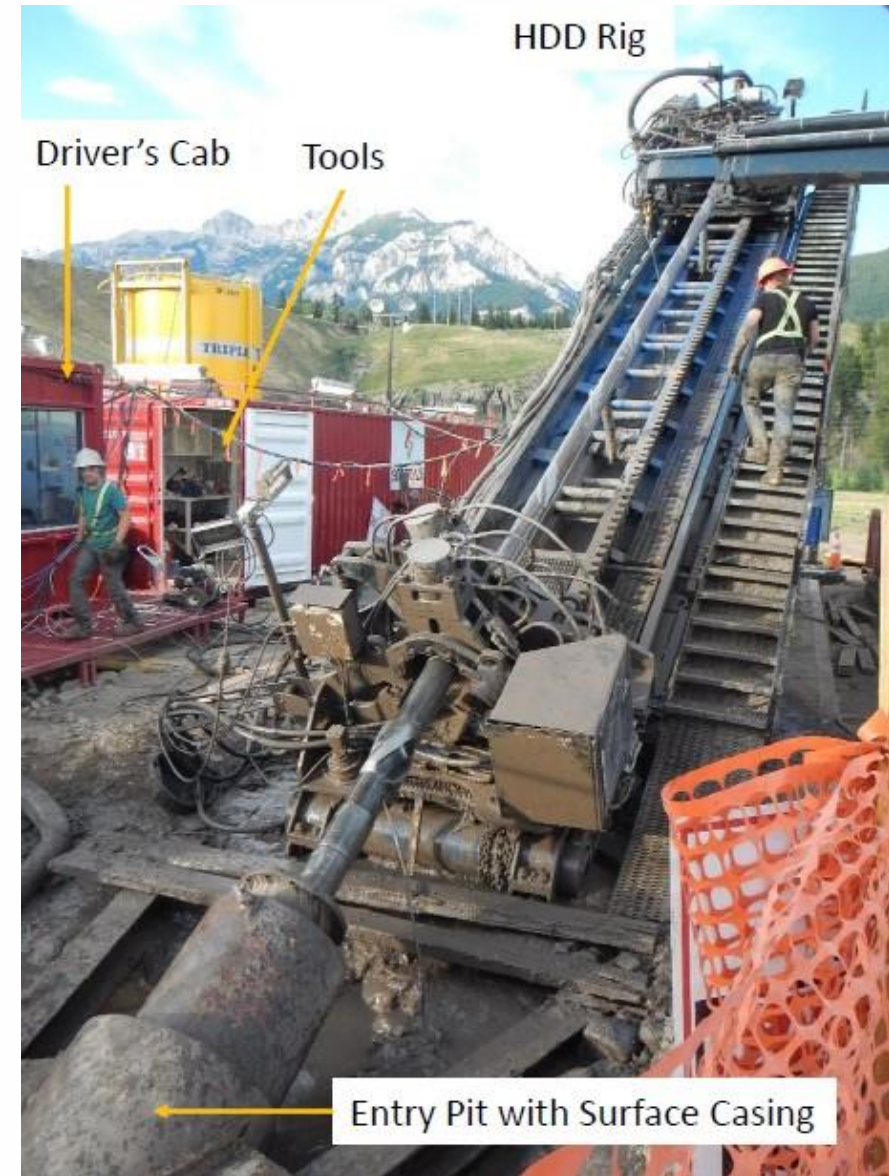
Property Impacts



Right-of-Way
Access

Laydown
Area

Examples of Activity



Groundwater Protection Policy



Groundwater/Aquifer Protection

Monitoring program for groundwater quality

Design + build a well engineered pipe that can withstand seismic events

Risk Management

Utilize acoustic leak detection

Impact on Properties

Repair a leak as quickly as possible, in the extremely unlikely event one should occur

Provide all reasonable assistance should well be contaminated

FULL POLICY AT www.connectcvrd.ca/conveyanceproject

Timeline Ahead

