

## Clover Forcemain

The Wastewater Treatment Project includes the construction of a pipe which will transport wastewater from the Clover Point Pump Station to the McLoughlin Point Wastewater Treatment Plant for tertiary treatment. This pipe, called the Clover Forcemain, will run along Dallas Road from Clover Point to Ogden Point, where it will connect to the cross-harbour undersea pipe which was completed in April 2018.

### CONSTRUCTION

Construction will begin in October 2018 and take approximately two years. Windley Contracting Ltd. has been selected to complete this work. Anticipated work hours are Monday to Friday from 7:00 a.m. to 7:00 p.m. and Saturday from 10:00 a.m. to 7:00 p.m.

The pipe will be installed in segments to minimize the impact to residents and the many users of Dallas Road. There will be multiple work crews during construction and single lane alternating traffic with signage and flaggers directing traffic as required. Vehicle access to residences and businesses along Dallas Road will be maintained. There will be no construction between Ogden Point and Dock Street during tourist season from mid-April to mid-October.

The Clover Forcemain alignment was developed in collaboration with the City of Victoria and considered the protection of the bluffs, the location of mature trees and sensitive vegetation, and traffic impacts during construction. Access to Clover Point Park and the pathway along Dallas Road will remain open during construction. Noise levels will be within the City of Victoria's bylaw.

### DID YOU KNOW?



The pipe is 3.2km long and 1.2m in diameter and is made of HDPE (high-density polyethylene).



A cycle path will be built to connect Ogden Point to Clover Point along the forcemain route.

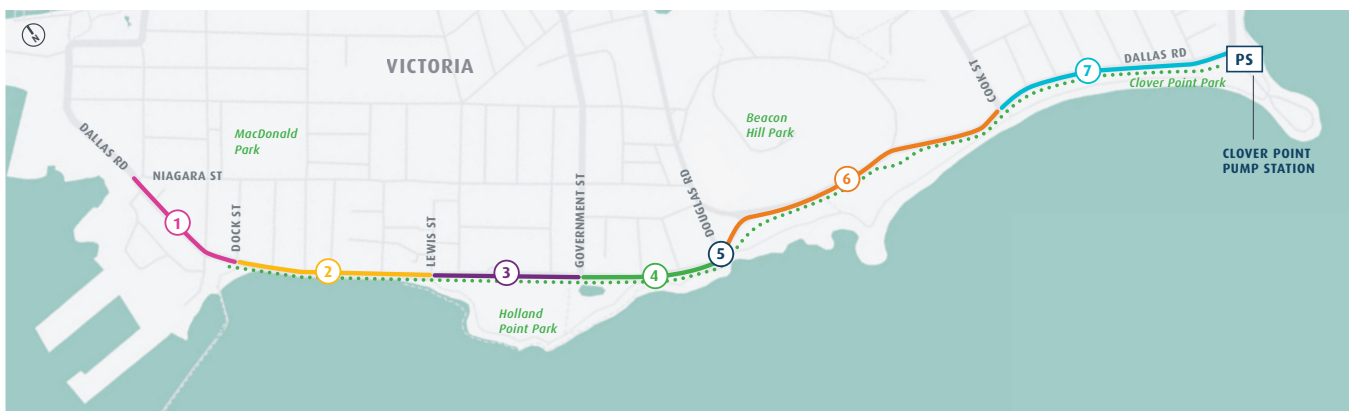


Other infrastructure improvements will be built along the route including new sidewalks, benches, bike racks and wayfinding signage.



As partners on the Project, representatives from the Songhees and Esquimalt Nations have been involved in the design of the public space improvements and provided guidance on cultural and archaeological protocols.

### Sequence of Construction



- |  |   |   |                                      |
|--|---|---|--------------------------------------|
| ① <b>NIAGARA TO DOCK</b><br>Winter 2018-2019 | ③ <b>LEWIS TO GOVERNMENT</b><br>Spring 2019   | ⑤ <b>DOUGLAS STREET INTERSECTION</b><br>Summer 2019 | ⑦ <b>COOK TO CLOVER</b><br>Fall 2019 |
| ② <b>DOCK TO LEWIS</b><br>Winter 2019        | ④ <b>GOVERNMENT TO DOUGLAS</b><br>Summer 2019 | ⑥ <b>DOUGLAS TO COOK</b><br>Summer 2019             | ⋯ <b>CYCLE PATH</b><br>2019-2020     |

*The anticipated sequencing may be amended based on construction progress. Schedule subject to change.*

*Schedule updates will be posted to the website.*

## Clover Point Pump Station

The Clover Point Pump Station is being upgraded and expanded as part of the Wastewater Treatment Project. The current pump station was built in the 1970s and pumps sewage directly into the ocean. The expanded pump station will pump wastewater to the McLoughlin Point Wastewater Treatment Plant for tertiary treatment and provide bypass pumping to the existing outfall during storm events.

### PROJECT DESCRIPTION

The Clover Point Pump Station expansion will be primarily underground and below the grade of the adjacent section of Dallas Road, blending with the existing facility and surrounding area. The pump station will have state-of-the-art odour control systems so there will be no discernible odour in the community. Operating noise will not exceed the current level of noise from the existing pump station.

### CONSTRUCTION ACTIVITIES

Construction to upgrade and expand the Clover Point Pump Station began in February 2018 and is anticipated to be complete in early 2020. The contractor, Kenaidan Contracting Ltd., has installed site office trailers and facilities, constructed a temporary laydown area, and installed temporary construction fencing around the perimeter of the work area. Excavation for the foundation of the expansion to the pump station is currently taking place.

Construction activities to be completed include concrete works to expand the existing underground structure; upgrades to mechanical and electrical equipment in the existing pump station; connection to the new Clover Forcemain; restoration of the surface; and public space improvements. Work hours are Monday to Friday from 7:00 a.m. to 7:00 p.m. and Saturday from 10:00 a.m. to 7:00 p.m.

The public space improvements were designed in collaboration with the City of Victoria and include a viewing plaza and public washrooms.



1. Cycle path
2. Gathering/dismount area for cycle path with bike racks and bike kitchen.
3. Viewing plaza with benches, drinking fountain and litter receptacle
4. Connecting sidewalk to Clover Point
5. Lower plaza viewing rest area
6. Raised grade to conceal washroom building
7. Public washroom
8. Connecting walkway to the Ross Bay seawall

The improvements were developed and approved by City of Victoria Council.