



# CORPORATION OF THE TOWNSHIP OF ESQUIMALT

Municipal Hall  
1229 Esquimalt Road  
Esquimalt, B.C. V9A 3P1

## Legislation Text

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## PERIOD REPORT

**DATE:** September 17, 2018 Report No. EPW-18-030  
**TO:** Laurie Hurst, Chief Administrative Officer  
**FROM:** Jeff Miller, Director of Engineering and Public Works  
**SUBJECT:** Engineering and Public Works - 2018 Second Period Report

The following is a report on the activities pertaining to the Engineering and Public Works from May 1, 2018 to August 30, 2018.

### I. DIVISION ACHIEVEMENTS AND ACTIVITIES

#### 1. Sanitary Sewer

- 2 service laterals installed (new) this period (total for the year = 10).
- 7 service laterals replaced (due to blockages) this period (total for the year = 15).
- Test and clear inspections as and when required.
- 0 manholes replaced this period (total for the year = 0).

#### 2. Pump Stations

- Crews have been carrying out routine maintenance activities.
- Annual program for pump maintenance/controls inspection to be completed in third period.
- Program also includes coordinating similar activities for View Royal pump stations.
- Scope of work for lockout locations on the various stations has been completed. Budget to be defined in third period.

#### 3. Storm Drains

- 7 service lateral installed (new) this period (total for the year = 15).
- 3 service laterals replaced (due to blockages) this period (total for the year = 9).
- Test and clear inspections as and when required.
- 1 manhole replaced this period (total for the year = 3).
- Program for catch basin cleaning was completed. Spot cleaning ongoing for the remainder of the year.
- Training program for spill response has been passed back to the Township from the CRD. Working with other stakeholders to develop a scope for the program.

- Completed grant application for end of pipe treatment structures for Gorge Creek and West Bay collection basins and submitted to Infrastructure Canada.

#### **4. Liquid Waste Management**

##### *Waste Water - Inflow and Infiltration*

- Working on finalizing a cost sharing strategy and bylaw for inflow and infiltration mitigation. Report will be coming to Council in third period.
- Building on work initiated from previous staff reports to Council: EPW-09-044, EPW-15-019, EPW-17-046 and EPW-17-064.
- Working with CRD Source Control to determine possible cross connection locations on Gosper Crescent.
- Interpretation of smoke testing results to take place in the first and second periods of 2019.
- Engineering developing a request for proposal for a consultant to assist in the modelling of the sanitary collection system. Request is to be released in the third period.

##### *Liquid Waste Management Plan*

- Participated on the Esquimalt Liaison Committee to review concerns and activities associated with the Waste Water Treatment Plant project.
- Participated on the Technical Committee to review technical aspects of solids line to Hartland.

##### *Integrated Watershed Management*

- Staff participating as a member of the committee.
- Working with the CRD on the development and implementation of common design guidelines for storm water management.

#### **5. Roads**

- Pothole repair being carried out as required.
- Spring sweeping program completed. Starting to prepare for fall sweeping program.
- Annual line painting contract completed.
- Paint of curbs, crosswalks, stop bars is underway for this year's program.
- Crack sealing program ongoing.
- Carried out surface restoration for third parties.
- Approximately 133.19 tonnes of asphalt placed for the period (total for the year = 315.57).

#### **6. Traffic Management**

- Implementation of ICBC/Township Report on uniform signage was carried out with issuance of traffic orders and sign installation. Project to be completed in late 2018/early 2019.

#### **7. Sidewalk Maintenance**

- Carried out surface restoration for third parties.
- Approximately 70.6 cubic meters of concrete (includes curb and gutter and sidewalk

panels) was placed (total for the year = 116.8 cubic meters).

- Approximately 282.4 linear meters was replaced for the period (total for the year = 467.2 linear meters).

## 8. Sidewalk Ramps

- Two ramp locations identified and completed.
- A total of 3 ramps completed to date.

## 9. Trip Hazards

- As per Council Policy PLAN-17 Sidewalk Maintenance, trip hazard inspection survey has been completed.
- Second year of three year cycle.
- Survey determined that there are:
  - 28 - No. 1 trip hazards (11 completed to date)
  - 82 - No. 2 trip hazards
  - 154 - No. 3 trip hazards
- Work will continue in the third period for correction of the hazards.

## 10. Bus Shelters

- Normal maintenance schedule underway.
- Includes refuse collection, graffiti removal and power washing of the shelters and sidewalks adjacent to them.

## 11. Solid Waste Management

### *Garbage and Kitchen Scraps collection*

- Operations normal.
- Number of additional garbage and organics bins purchased to the end of period = 19 (total additional bins purchased since 2014 = 253).
- Existing garbage and organic bins inventory has been depleted and additional bins have been ordered.
- Tonnage of garbage waste stream collected for period = 408.01 (total for the year = 830.05).
- Tonnage of kitchen scraps collected for period = 180.15 (total for the year = 361.29).
- Tonnage for the year = 1191.34 (total for same period 2017 = 1139.59).
- CRD is continuing the program of processing kitchen scraps at out of region locations.
- No updates have been provided by the CRD on the possibility of combining kitchen scraps, bio solids and yard/garden waste. Staff will continue to work on this initiative with CRD.

### *Yard and Garden*

- Operations normal.
- Initial work has been started on request for proposal for operation site. Request will be released in the third period.
- Usage of transfer station during period: May to August:
  - Esquimalt residents = 8,561 (total for the year = 12,398).

- View Royal residents = 4,221 (total for the year = 5,585).
- Commercial = 19 (total for the year = 53).
- Tonnage removed from site = 430.47 (total for the year = 820.58).
- Tonnage removed in 2017 second period = 821.62 (total for 2017 = 2240.08).

### *Recycling*

- Operations normal.
- Staff preparing a new contract for tender in the third period of 2018.

## **12. Fleet**

- Operations normal.
- Working on developing specifications and tender packages for the following items in 2018:
  - Van
  - Bylaw truck
    - A request for proposal will be prepared to confirm availability of electric truck.
  - ¾ ton truck
  - Crew cab with dump box
  - Parade float
    - Preliminary concepts have been completed.
    - Staff carrying out further engagement with public.
    - The refined concepts to be discussed in the third period of 2018.
  - Desalination trailer specifications underway.
  - Purchased a thermoplastic line marking unit which has entered service.

## **13. Work Orders**

- Work orders for call outs and/or repairs at View Royal pump stations for the period = 2 (total for the year = 3).
- Work orders issued for asphalt/sidewalk repairs following work by other utilities for the period = 29 (total for the year = 54).
- Work orders issued for sanitary and storm services to accommodate new development in the period = 3 (total for the year = 12).

## **14. Capital Projects**

### **14.1 Traffic Counts**

- Traffic counts completed.

### **14.2 Corridor/Traffic Study**

- Corridor and traffic studies for Lampson Street, Tillicum Road, Lyall Street and traffic counts were bundled and issued for request for proposal.
- Contract awarded in January 2018.
- Carried out public engagement on Lyall Street and Lampson Street corridors on potential cross sections.
- Consultant working on interpretation of results.

- Modelling of Township completed. Undertaking review of report with consultant.
- Review of the potential location of a controlled intersection along Tillicum Road between Craigflower Road and Tillicum Bridge will be in conjunction with Amenity Funds discussions.

#### **14.3 Multiple Storm Drain/Sanitary Sewer Main Replacements**

- Various sections of main line (storm/sanitary) will be removed and replaced based on condition assessment.
- Locations include:
  - Esquimalt Road (sanitary sewer line)
  - Lampson Street (sanitary sewer line)
  - Selkirk Avenue (storm drain line) - completed
  - Head Street (storm drain manhole)
- Additional locations are being identified by condition assessment from cameraing of lines from Road Corridor Program.

#### **14.4 Review of Public Works Fuel Tanks**

- The study will review the integrity of the fuel tanks at Public Works and confirm the condition of the tanks.
- Preparing a Request for Proposal in late 2018/early 2019.

#### **14.5 Service Line Modification in Public Works Yard**

- The storm collection laterals within the Public Works Yard need to be modified.
- This project will see the rerouting of the storm service to the sanitary service in order to control water quality better.
- Work to be carried out in late 2018/early 2019.

#### **14.6 Inspection of Masonry Structures**

- An inventory of the masonry structures has been completed.
- In 2018 a consultant will be retained to assist in the assessment of the structures.

#### **14.7 Municipal Hall Upgrade**

- Work has been completed.

#### **14.8 Replacement of Emergency Generator at Public Works**

- This project will upgrade the emergency generator to ensure that the public works operations and secondary emergency operations centre will not be impeded by a lack of power.
- Based on review of the generator, it is undersized and needs to be replaced.
- Will develop a scope of work for the project in 2018.

#### **14.9 Tillicum Bridge Maintenance**

- This project involves significant maintenance to the Tillicum Bridge.
- Saanich was the lead manager on this project with Engineering staff working with them during the construction portion of the project.
- Work has been completed.

#### **14.10 Municipal Hall HVAC control System Replacement**

- IT and Public Works have started the preparation of a scope of work for replacement of the HVAC control system.
- Work to be carried out in the third period.

#### **14.11 Tillicum Road Corridor Upgrade**

- This project will see the removal/replacement of concrete and asphalt works between Craigflower Road and Transfer Street.
- Tender awarded in second period.
- 90% of the project has been completed by the end of the second period.
- Remainder of work to be completed in the third period.

#### **14.12 Street Light Replacement Program**

- Annual program for replacement started in the second period.
- A total of 103 lights replaced along the following streets: Craigflower Road, Tillicum Road and Lampson Street.
- Due to new rules from BC Hydro with respect to limit of approach, the project has been delayed as it was necessary to adjust the scope of work and retain a qualified contractor.
- Work was carried out in the second period and is expected to be completed in the third period.

#### **14.13 Sidewalk Capital Program**

- This project increases the sidewalk network in length and improves connectivity.
- The program saw the installation of a concrete sidewalk on Kinver Street from Wychbury Avenue to Greenwood Avenue. Work has been completed.
- Work will also be carried out to acquire right of way on Admirals Road between the Constance Avenue cut across and Bewdley Avenue.
- Land acquisition to occur in the third period/first period of 2019.
- This will allow sidewalk construction to proceed in 2019.
- The 2016 project (between Old Esquimalt Road and 832 Esquimalt Road) has been initiated and will be completed in the third period.
- Underground lines have been found to be in poor shape and a replacement program has been completed.
- Work is to be completed in the third period.

#### **14.14 Sidewalk Replacement Program**

- This project sees existing sidewalks upgraded to current standards.
- The program will see the installation of a concrete sidewalk on Nelson Street from Lyall Street to mid block.
- Work is to be completed in the third period.

#### **14.15 Road Corridor Program**

- This program will see the update of various road corridors for both above/below surface infrastructure.

- The first step has been a review of the geotechnical information.
- Pipe infrastructure inspections will continue.
- Roads included in the program are the arterials and collectors.
- Work to be completed in the third period.
- Utilizing the information to determine the scope of work for the 2019 program.

#### **14.16 Tillicum Road/Colville Road Ramp Upgrade**

- This project will see an upgrade to the existing concrete ramp on the North West corner of the intersection.
- The grade will be decreased in order to provide greater accessibility.
- The work will be carried out in the third period.

#### **14.17 Crosswalks on Esquimalt Road**

- Based on a prior study, two pedestrian-controlled crosswalks will be added across from the ETS site and at Grenville Avenue.
- The Park Place crosswalk will be decommissioned.
- Work will be initiated in the third period.

#### **14.18 Esquimalt Road Improvements**

- Funding was approved for curb paint removal along with weed control. This work has been completed.

#### **14.19 ETAG**

- Recruitment drive in third period.
- Public Works/Parks Departments continue to carry out work on the public realm as required.

#### **14.20 Esquimalt Town Square Project**

##### *Brown Field Remediation*

- Additional physical remediation of the contamination areas initiated and completed.
- Development of risk assessment component of remediation plan ongoing.
- Application for Certificate of Compliance to occur in third period.

##### *Storm and Sanitary Relocation*

- New locations for storm and sanitary service laterals have been completed.
- Temporary storm and sanitary pump stations installed.
- Work to be tendered in the third period with construction in the later part of the third period/early 2019.

#### **14.21 1237 Esquimalt Road Demolition**

- The existing building will be demolished.
- Tender was awarded in later part of the second period.
- Demolition has been started with completion of the work in the third period.

#### **14.22 Head Street and Esquimalt Road Intersection**

- Scope of work will be developed for the upgrading of lights/poles for the intersection in 2018.
- Design scheduled for late 2018.

#### **14.23 Lockley Road/Intervale Avenue Accessibility Modification**

- The south east corner of the intersection will be modified in order to allow greater accessibility for the public with the removal of the stairs and replacement with a sloped sidewalk.
- Construction will occur in the third period.

#### **14.24 Inflow and Infiltration Control Program**

- Engineering will prepare preliminary modelling data in early 2018.
- Based on this modelling data, initial modeling will be carried out.
- Will prepare a draft bylaw for Inflow and Infiltration Control for discussion with Council in third period which will include cost sharing program for cross connections and service line condition.
- Pilot project for inspection chambers and cameraing to be initiated in the third period.

#### **14.25 Traffic Orders**

- Program for implementation from Traffic Control Review report (EPW-16-001) has been initiated.
- Traffic Orders have been issued for this work.
- Number of Traffic Orders issued this period = 1 (total for the year = 13).

#### **15 Development Applications**

- Number of development applications for Engineering comments this period = 10 (total for the year = 20).
- Number of building permit applications for Engineering comments = 42 (total for the year = 80).

## **II. COMMITTEES**

- No Engineering staff is appointed to sit on any Council appointed committees.