



# CORPORATION OF THE TOWNSHIP OF ESQUIMALT

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

## Legislation Details (With Text)

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## PERIOD REPORT

**DATE:** May 28, 2018      Report No. EPW-18-022

**TO:** Laurie Hurst, Chief Administrative Officer

**FROM:** Jeff Miller, Director of Engineering and Public Works

**SUBJECT:** Engineering and Public Works - 2018 First Period Report

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

### I. DIVISION ACHIEVEMENTS AND ACTIVITIES

#### 1. Sanitary Sewer

- 8 service laterals installed (new) this period (total for the year = 8).
- 8 service laterals replaced (due to blockages) this period (total for the year = 8).
- 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.
- Preparing annual program for pump maintenance/controls inspection.
- Program also includes coordinating similar activities for View Royal pump stations.
- Initial work for developing scope of work for lockout locations on the various stations has been completed. Work to be carried out in the second period of 2018.

### 3. Storm Drains

- 8 service laterals installed (new) this period (total for the year = 8).
- 6 service laterals replaced (due to blockages) this period (total for the year = 6)
- Test and clear inspections as and when required.
- 2 manholes replaced this period (total for the year = 2).
- Program for catch basin cleaning was initiated. 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.

### 4. Liquid Waste Management

#### *Waste Water - inflow and Infiltration*

- Strategy for cost sharing was presented to Committee of the Whole in the third period.
- Staff to develop feedback into a working strategy in 2018.
- The Engineering Department to begin modeling the sanitary sewer system in the first period and obtain assistance as required from a consultant for the model analysis and model refinement. Interpretation of smoke testing results to take place in the first and second periods of 2018.

#### *Liquid Waste Management Plan*

- Participate on the Esquimalt Liaison Committee to review concerns and activities associated with the Waste Water Treatment Plant project.

#### *Integrated Watershed Management*

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

### 5. Roads

- Snow and Ice Control programs carried out as required.
- Pothole repair being carried out as required.
- Spring sweeping program initiated.
- Annual line painting contract to be awarded in second period. Work to be completed in second period.
- Crack sealing program being reviewed. Program to start in the second period.
- Carried out surface restoration for third parties.
- Approximately 182.38 tonnes of asphalt placed for the period (total for the year = 182.38 tonnes).

### 6. Traffic Management

- Carried out implementation of ICBC/Township Report on uniform signage with issuing of required traffic orders.

### 7. Sidewalk Maintenance

- Carried out surface restoration for third parties.
- Approximately 46.2 cubic meters of concrete (includes curb and gutter and sidewalk panels) was placed (total for the year = 46.2 cubic meters).

- Approximately 184.8 linear meters was replaced for the period (total for the year = 184.8 linear meters).

## 8. Sidewalk Ramps

- Program will be undertaken in the second period.
- Two sidewalk ramp locations have been identified.
- 1 sidewalk ramp completed this period.

## 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:
  - 19 - No. 1 trip hazards (2 completed to date)
  - 82 - No. 2 trip hazards
  - 154 - No. 3 trip hazards
- Work will continue in the second 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 organic bins purchased to the end of period = 16 (total additional bins purchased since 2014 = 234).
- Tonnage of garbage waste stream collected for period = 422.04 (total for the year = 422.04).
- Tonnage of kitchen scraps collected for period = 181.14 (total for the year = 181.14).
- Tonnage for year = 603.18 (total for same period 2017 = 527.69).
- CRD is continuing the program processing of kitchen scraps in/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.
- Usage of transfer station during period: January to April:
  - Esquimalt residents = 3,837 (total for the year = 3,837).
  - View Royal residents = 1,364 (total for the year = 1,364).
  - Commercial = 34 (total for the year = 34).
  - Tonnage removed from site = 390.11 (total for the year = 390.11).
  - Tonnage removed in 2017 first period = 352.54 (total for 2017 = 2240.08).

### *Recycling*

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

## **13. Work for Others**

- Work orders for call outs and/or repairs at View Royal pump stations for the period = 1 (total for the year = 1).
- Work orders issued for asphalt/sidewalk repairs following work by other utilities for the period = 25 (total for the year = 25).
- Work orders issued for sanitary and storm services to accommodate new development in the period = 9 (total for the year = 9).

## **14. Capital Projects**

### **14.1 Traffic Counts**

- Traffic counts will occur in the second period of 2018.

### **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.
- Preliminary designs being completed along with modelling.
- Public engagement will occur in second and third periods.
- 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 Road (storm drain line)
- 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 2018.

#### **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 be better to control water quality.

#### **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**

- The flooring in the Municipal Hall requires upgrading due to its age and usage.
- In addition the common areas of the Hall require painting.
- Work initiated in the first period and will be completed early in the second period.

#### **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.
- 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 will be the lead manager on this project with engineering working with them during the construction portion of the Project.

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

- IT and PW 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.
- The detailed design has been completed.
- A tender call occurred early the second period.

- Work to be completed in the second and third periods.

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

- Annual program for replacement to be started in the second period.
- A total of 103 lights replaced along the following streets: Craigflower Road, Tillicum Road and Lampson Street.

#### **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 is to be completed in the second and third periods.
- Work will also be carried out to acquire right of way on Admirals Road between the Constance cut across and Bewdley.
- This will allow sidewalk construction to proceed in 2019.
- The 2016 project (between Old Esquimalt Road and 832 Esquimalt Road) has been initiated and partially completed.
- Underground lines have found to be in poor shape and a replacement strategy is being undertaken.
- Work is to be completed in the second and third periods.

#### **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 second and third periods.

#### **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 second and third periods.
- 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 second and third periods.

#### **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 was initiated in the second period of 2018.

#### **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 second period.
- Public Works/Parks Departments continue to carry out work on the public realm as required.

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

##### 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 second 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 second period with construction in the third period.

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

- The existing building will be demolished.
- In order to determine what type of building materials are present, a building assessment was carried out in the first period.
- The tender for demolition will be released in the second 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 is scheduled for mid 2018.

#### **14.23 Lockley Road/Intervale Road 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.
- Design and construction are scheduled for mid 2018.

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

- Engineering has prepared 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 in 2018 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 second period of 2018.

#### **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 = 12 (total for the year = 12).

#### **15. Development Applications**

- Number of development applications for engineering comments this period = 10 (total for the year = 10).
- Number of building permit applications for engineering comments =38 (total for the year = 38).

## **II. COMMITTEES**

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