



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

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

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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.