



CORPORATION OF THE TOWNSHIP OF ESQUIMALT

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

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PERIOD REPORT

DATE: January 14, 2019 Report No. EPW-19-001
TO: Laurie Hurst, Chief Administrative Officer
FROM: Jeff Miller, Director of Engineering & Public Works
SUBJECT: Engineering & Public Works - 2018 Third Period Report

The following is a report on the activities pertaining to the Engineering & Public Works from September 1, 2018 to December 31, 2018.

I. DIVISION ACHIEVEMENTS AND ACTIVITIES

1. Sanitary Sewer

- 2 service laterals installed (new) this period (total for the year = 12).
- 6 service laterals replaced (due to blockages) this period (total for the year = 21).
- 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 has been completed.
- Program also includes coordinating similar activities for View Royal pump stations.
- Scope of work for lockout locations on the various stations has been completed. Work to be initiated upon approval of Financial Plan.

3. Storm Drains

- 3 service lateral installed (new) this period (total for the year = 18)
- 2 service laterals replaced (due to blockages) this period (total for the year = 11).
- Test and clear inspections as and when required.
- 0 manhole replaced this period (total for the year = 3).
- 5 catch basins replaced this period (total for the year = 5).
- 1 new catch basin installed this period (total for the year = 1).
- Program for catch basin cleaning was completed. Spot cleaning ongoing for the remainder of the year.
- Completed grant application for end of pipe treatment structures for Gorge Creek and West Bay collection basins and submitted to Infrastructure Canada; we are waiting for a response.

4. Liquid Waste Management

Waste Water - Inflow and Infiltration

- Continuing to develop a cost sharing strategy and bylaw for inflow and infiltration mitigation. Report (EPW-18-036) presented to Council.
- 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 retained a consultant to assist in the modelling of the sanitary collection system.

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

- Snow & Ice Control Programs carried out as required
- Fall sweeping program completed. Winter program underway.
- Annual line painting contract completed.
- Painting of curbs, crosswalks, stop bars is underway for this year's program.
- Carried out surface restoration for third parties.
- Approximately 231.07 tonnes of asphalt placed for the period (total for the year = 546.64).

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 early 2019.

7. Sidewalk Maintenance

- Carried out surface restoration for third parties.
- Approximately 44.4 cubic meters of concrete (includes curb and gutter and sidewalk panels) was placed (total for the year = 161.2 cubic meters).
- Approximately 1268.1 linear meters was replaced for the period (total for the year = 1735.3 linear meters).

8. Sidewalk Ramps

- 2 ramp locations identified and completed under ramp replacement program.
- A total of 11 ramps completed to date.
- Additional ramps due to capital projects or concrete replacement.

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:
 - 30 - No. 1 trip hazards (17 completed to date)
 - 82- No. 2 trip hazards
 - 154 - No. 3 trip 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 = 7 (total additional bins purchased since 2014=260).
- 2014 garbage and organic bins inventory was depleted and additional bins were ordered and inventory has been replenished.
- Tonnage of garbage waste stream collected for period = 382.44 (total for the year = 1212.49).
- Tonnage of kitchen scraps collected for period = 195.35 (total for the year = 556.64).
- Tonnage for the year = 1769.13 (total for same period 2017 = 1734.07).
- 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 early 2019.
- Usage of transfer station during period: September to December:
 - Esquimalt residents = 5,256 (total for the year = 17,780).
 - View Royal residents = 2,110 (total for the year = 7,695).
 - Commercial = 53 (total for the year = 106).
 - Tonnage removed from site = 633.40 (total for the year = 1746.62).
 - Tonnage removed in 2017 third period = 748.39 (total for 2017 = 2240.08).

Recycling

- Operations normal.
- Staff preparing a new contract for tender in 2019.

12. Fleet

- Operations normal.
- Working on developing specifications and tender packages for the following items in 2018:
 - Bylaw truck
 - A request for proposal was released for an electric vehicle. No proposals received.
 - $\frac{3}{4}$ ton truck - request for quotations to be released early 2019.
 - Crew cab with dump box - request for quotations to be released early 2019.
 - Parade float
 - Preliminary concepts have been completed.
 - Staff carried out further engagement with public.
 - Expression of interest for construction to be released in the first or second period in 2019.
 - Request for Quote (RFQ) issued end of third period for a High Roof Cargo Van. RFQ will be awarded in the first period of 2019.
 - Desalination trailer modification started.
 - 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 = 8 (total for the year = 11).
- Work orders issued for asphalt/sidewalk repairs following work by other utilities for the period = 28 (total for the year = 82).
- Work orders issued for sanitary and storm services to accommodate new development in the period = 11 (total for the year = 23).

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.
- Lyall Street design has been started.
- 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) - completed
 - Devonshire Road (storm drain main) - completed
 - Selkirk Avenue (storm drain line) - completed
 - Head Street (storm drain manhole) - review of CCTV info revealed main does not require to be replaced, the manhole has been temporarily sealed, no additional work required at this time.
- Additional locations are being identified by condition assessment from CCTV inspections 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 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 early 2019.

14.6 Inspection of Masonry Structures

- An inventory of the masonry structures has been completed.
- In 2019, a consultant will be retained to assist in the assessment of the structures.

14.7 Municipal Hall Upgrade

- Work has been completed.
- Scope of work included: removal & replacement of various flooring materials as well as painting of common areas.

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.
- Emergency Operations Centre power requirement needs additional standby power demand to meet operations needs during an event.
- Based on review of the generator, it is undersized and needs to be replaced.
- Will develop a scope of work for the project in 2019.

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.
- A consultant was retained in the third period to review, results pending.

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.
- 100% of the project has been completed by the end of 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 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 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 completed in the third period.
- Underground lines have been found to be in poor shape and replacements have been completed.

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 first period of 2019.

14.15 Road Corridor Program

- This program will see the update of various road corridors for both above/below surface infrastructure.
- A review of the geotechnical information has been completed.
- Pipe infrastructure inspections will continue into 2019.
- Roads included in the program are the arterials and collectors.
- The information will be used to determine the maintenance and renewal scope of work for the sewer and drain programs.

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 was completed 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 was 90% completed 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 (Esquimalt Together Against Graffiti)

- Recruitment drive in early 2019.
- Public Works/Parks Departments continue to carry out work on the public realm as required.
- Review of potential contracted services to be undertaken in 2019.

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 early 2019.

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 early

2019.

14.21 1237 Esquimalt Road Demolition

- Tender was awarded in later part of the second period.
- Demolition of the existing building was completed and the completion of the parking lot occurred 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 was initiated in house in the third period.
- Electrical design to be initiated in the first period of 2019.

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.
- Work was completed in the third period.

14.24 Inflow and Infiltration Control Program

- Engineering has prepared preliminary modelling data.
- Based on this modelling data, initial modeling will be carried out.
- Pilot project for inspection chambers and cameraing to be initiated in 2019.

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 = 5 (total for the year = 18).

15. Development Applications

- Number of development applications for Engineering comments this period = 9 (total for the year = 29).
- Number of building permit applications for Engineering comments = 28 (total for the year = 108).

II. COMMITTEES

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