



Engineering & Public Services

Departmental Activity Report

May - August 2009

ENGINEERING

Bylaws

Truck Route Bylaw

Council has approved the Truck Route Bylaw. The regulatory signs are now in place and the Truck Route Bylaw is in effect in Central Saanich. Tour buses are currently using the West Saanich / Benvenuto intersection.

The Saanich Cross Road / East Saanich Road 4-way Stop is in effect.

Surface Water Runoff Bylaw

It is intended to present this draft bylaw to the Council by the end of October.

Projects

Transportation Projects

- East Saanich Road Bike Lanes and Trail
The contract for this project has been awarded to C-1 Contracting Ltd. The works are expected to be completed by mid-November.
- Traffic Speeding and Calming Issues
 - Three speed humps have been installed on Sluggett Road.
 - Council has approved two speed humps to be installed on Early Place.
 - Meetings with CSPA ongoing to address speeding complaints.
 - 30 km per hour signs have been placed on Con Ada Road and Saanich Cross Road.

- Oldfield Road Farm Signs "Slow Down"
Signs have been printed and will be installed in October.
- Installation of 40 km/hr Signs on Brentwood Bay Feeder Roads
Relevant bylaw amendments have been prepared for Council's approval.
- Bus Stop Improvement Program
Public Works is investigating different types of 'off-the-shelf' shelters.
- White Road Puddle
Works have been completed.
- BC Hydro Beautification (Brentwood Bay)
An Open House was held and all property owners are informed and in favour of this project. Most of the private property works have been completed. Due to the Olympics, the project may be pushed back into November.
- Pedestrian Lights Brentwood Elementary
Lights were installed at the start of the 2009/10 school session.
- Building Canada Fund Grant – East Saanich Road (Island View to Cultra) Project
The engineering design and construction supervision contract for this project has been awarded to 1st Team Consulting Ltd. Consultant to undertake conceptual design and public consultation in 2009, followed by detailed engineering design and construction in 2010 and 2011.

- **Trees for Tomorrow Grant** A Landscape Architect has been retained to design and provide a planting list for this project. Tree and shrub planting to occur in the Spring of 2010.
- **Benvenuto Avenue Restoration and Management Planning Study** In response to an RFP for consulting services for the preparation of a road restoration and management plan for Benvenuto Avenue (which will evaluate the options for upgrading the roadway for modern traffic and pedestrian modern uses), Stantec Consulting Ltd. has been awarded the consulting contract. It is anticipated that the study will be completed in early 2010.

Integrated Stormwater Management (ISMP)

The Final Report along with Implementation Planning Report is expected to be presented to Council October 26th. Structural review of the Dooley Road culvert to be completed by the end of October.

Tetayut Creek Stewardship Engineering and Public Works staff continue to work with Peninsula Streams representatives.

General Drainage Projects

- Clarke Road drain crossing complete.
- Public Works Yard drainage is being designed in-house.
- Superintendent of Public Works to work with Butler Brothers regarding the provision of a detention pond at the Municipal Yard.

SCADA - Software and equipment upgrades will continue in 2009 and 2010 to maintain compatibility with the CRD system.

Sewer System Modifications

- Root repairs – ongoing.
- The surge protection line at the Hagan Pump Station has been completed and is now fully operational.

Stantec Consulting Ltd. has been awarded the contract to conduct a feasibility study to evaluate the pumping options for the Hagan and Brentwood Pumping Stations and the replacement of the ageing asbestos cement forcemains from those two stations. Funding for this study had been approved through a supplementary budget request in 2009.

Anglers – Grilse Lane Watermain Replacement

An in-house design for the replacement of the watermain along Anglers Lane and Grilse Lane has been completed. The District has received the Archaeological Site Alteration Permit for the portion along Anglers Lane. Central Saanich Public Works is currently working on this project. The paving of Anglers Lane will also be conducted as part of this project.

Senanus Water Main Project

A request for proposals for the design and consulting services for this project was released in April 2009 and subsequently awarded to Kerr Wood Leidal. Design of the watermain has been completed but will not proceed to tendering and construction pending the outcome of a judicial review associated with the establishment of the Local Service Area Bylaw adopted for this project.

Brentwood Bay Water-Fire Protection

Staff have not yet received confirmation of funding from an application submitted under the Canada-British Columbia Building Canada Fund Communities Component for 2/3 funding of the design and construction of the necessary works for the improvement of fire-fighting flows to the commercial area of West Saanich Road. The total estimated project cost in 2009 dollars was \$1,400,000. Staff will continue to investigate other funding options for this project through 2009.

Dock Maintenance

Maintenance and Inspection of the two dock facilities continues to be conducted by Advanced Contract Services. Full structural evaluations of both facilities are anticipated for Summer - Fall 2009.

The options for harbour storage of the concrete float at the Saanichton Bay Dock during the winter months will be investigated for the November through March winter storm season.

Rezoning and Subdivision Applications

Engineering and Public Works Department continue to review the Subdivision, Rezoning and Development Permit applications referred by the Planning Department.

PUBLIC WORKS

Vehicle Equipment Maintenance

- ❖ *Police – regular servicing of the fleet and preventative maintenance. New police vehicle put into service.*
- ❖ *Fire – provincial inspection, preventative maintenance and regular servicing of all fire equipment. Put a new PEMO service vehicle into service.*
- ❖ *Roads/Drains – regular servicing, preventative maintenance and provincial inspections.*
- ❖ *Parks - regular servicing and preventative maintenance of vehicles. Tested two alternative vehicles (electric and low emissions).*
- ❖ *Water/Sewer – regular servicing and preventative maintenance of vehicles.*
- ❖ *Engineering/Inspections - regular servicing and preventative maintenance.*

Water and Sewer Maintenance

- ❖ *Maintained the entire water distribution system in the District.*

- ❖ *Maintained the entire sanitary sewer collection system.*
- ❖ *Annual water meter replacement / check valve installation program is still underway.*
- ❖ *All fire hydrants have received their “A” service and growth was cleared from around all fire hydrants.*
- ❖ *The second of tri-annual water meter reading was completed after which, public and private water leaks were repaired, stopped meters were replaced, brushing around meter boxes took place and damaged boxes were replaced.*
- ❖ *The Sanitary Sewer Root Removal Program is ongoing and the removal of certain problem trees is in the process.*
- ❖ *Repairs were done to some valves and hydrants after water main flushing this year.*
- ❖ *50 more Storz adaptors were installed during the “A” servicing of the hydrants this year.*
- ❖ *27 new water services were installed this quarter.*
- ❖ *Weed eating of all and painting of some of the fire hydrants was completed.*
- ❖ *Maintenance and repairs are ongoing with all the PRV stations.*
- ❖ *We have started to install Scada in the last two PRV stations to enable us to monitor them better.*
- ❖ *Working with engineering on upgrading the water main on Grilse and Anglers Lane. Plans are in place to start the job in September.*
- ❖ *Plans are in place to start the Air Valve maintenance – scheduled to commence in August. This will mean finding, cleaning and making sure all of our air valves on the water mains are in working order.*
- ❖ *BCWWA training on our PRV's is scheduled for September 15th and 16th.*

- ❖ *A new water meter has been installed in the Public Works yard on the fire hydrant to monitor the water use.*
- ❖ *6 water leaks were found and fixed in this quarter.*
- ❖ *Responded to service calls as required.*
- ❖ *We have installed 10 new sewer services.*
- ❖ *We completed 4 sewer root repairs on the sewer mains.*
- ❖ *The beach sewer line from Devonshire pump station south was checked with the camera and flushed. Some small repairs were done to the sewer main to ensure no sea water penetrates. Two service lines were identified as possible infiltration spots and they were repaired.*
- ❖ *The new surge protector arrived for Hagan pump station. It was installed and Hagan is up and running.*
- ❖ *About 12,000 m of sewer mains have been flushed.*
- ❖ *Bi-weekly flushing of all the sewer stations, as well as inspections and maintenance of the 13 smaller grinder stations is still ongoing.*
- ❖ *Routine maintenance and checks of the 17 sewer pump stations is ongoing weekly.*
- ❖ *Annual video inspection of 1/7th of the Municipal sewer systems got underway in May and is almost complete. Some root problems were identified from this video work and repairs have been made.*
- ❖ *Working together with Engineering on the re-lining of a piece of the sewer main that runs between Veyaness and Central Saanich Rd.*
- ❖ *Responding to residential and Scada calls as required.*

Roads and Drainage Maintenance

- ❖ *Inspected all road surfaces to plan the paving for the year.*

- ❖ *Centre line painting is underway by a contractor and stop bars, cross walks, arrows and curbs were painted by Road staff.*
- ❖ *Burm removal on West Saanich, Keating X , Stelly's, Veyaness, and Central Saanich Road for 20 lane kilometres of shoulder.*
- ❖ *Chip Seal program treating 40,100 m² of road surface. Part of Wallace, Martindale, Welch, Dooley, McIntyre, and McHugh.*
- ❖ *Paving prep for chip seal 700 hours.*
- ❖ *Sweeping for 90 hours.*
- ❖ *Mowing road side ditches and boulevards.*
- ❖ *Painting yellow curbing, crosswalks, stop bars and other things for 450 hours.*
- ❖ *Completed all long line painting in the District.*
- ❖ *Completing all of contract paving works within the District (\$300,000 value). Worked on West Saanich and Keating Cross Road.*
- ❖ *Maintenance on storm water detention tanks at Ferguson Road and English Meadow.*
- ❖ *Have installed 75 signs over the last 4 months. Four way stops, speed zone changes, no parking, truck route bylaw.*
- ❖ *Installed speed humps and signage on Sluggett Rd.*
- ❖ *Replaced 50 m of 1.5 m old sub standard drain crossing Clarke Rd.*
- ❖ *Wash and replace posts on all guard rails in preparation for painting.*
- ❖ *Weed 75 traffic islands.*
- ❖ *Clear sight lines at intersections.*
- ❖ *Respond to public inquiries.*

Parks Maintenance

- ❖ *Performed routine Parks tasks such as litter collection and graffiti removal.*

- ❖ Routine turf management within our community and neighbourhood parks.
- ❖ Monthly playground inspections completed.
- ❖ Trail brushing and cutting of pathways is ongoing.
- ❖ Flail mowing of Passive Park open space and municipal properties.
- ❖ Turf Management – deep tine aerated Centennial and Alexander fields and aerated Pioneer, Rom Knott, Rodolph, Saanichton Green and Verdier Parks.
- ❖ Performed projects in the Invasive Plant Removal Program within Saanichton Green, Adam Kerr and Dawson Park.
- ❖ Power washed the three shelters and painted the exterior of the field house at Centennial Park.
- ❖ Painted the concession building and bleachers at Rom Knott Park.
- ❖ Horticultural maintenance and Summer pruning of shrubs and trees has been completed.
- ❖ Irrigation maintenance and repairs are ongoing.
- ❖ Ongoing watering of recently planted native shrubs and trees at Centennial, Adam Kerr and other neighbourhood parks.
- ❖ Pressure washing of dugouts and hard surfaces in Centennial and Rom Knott parks.
- ❖ Assisted Saanichton Village Association in the development of the Patterson ROW volunteer project.
- ❖ Working with contractors on the Hagan bight beach access.
- ❖ Working with contractors on Rom Knott backstop/ dugouts.
- ❖ Dawson Park creek job (removal of invasive, replanting of appropriate plant material, restabilising trail and fences).

- ❖ Dealing with vandalism at the skate park in Centennial Park.
- ❖ Assisted numerous user groups and assisted in Central Saanich Days and Cinema Under the Stars events held in Centennial Park.

Workplace Safety and Risk Management

In order to comply with Work Safe BC Regulations and limit the District's liabilities, the following steps were taken:

- Weekly General Safety Meetings and Monthly Safety Committee Meetings were held at the Public Works Yard.
- Maintained storage of safety and first aid supplies and developed safe work procedures for Working Alone or in Isolation and Pre-Excavation Requirements.
- Ensured the completion of quarterly inspections:
 - i. First Aid Kits
 - ii. Eye wash stations
 - iii. Emergency Lights
- Provided training/clinics for the following issues: Safe Driving Awareness-Impairment and Fatigue, underground gas utilities, dealing with drug and alcohol abuse and Air Brake Refresher course.
- As of August 31, 2009 we have worked 99 working days without a significant lost time accident.

Public Services

- ❖ Processed light maintenance requests.
- ❖ Designated an internal litter/recycle transfer station to improve Public Works operations.

**Vehicles, Equipment and
Supplementary**

Description	Budget	Actual Cost	Status
Snowplow, unit #273, for Veh#216	8,000	7,597.00	Rec'd Jul 21/09
Steam-Gen. Weed Control Sys. #274	15,000	17,933.20	Rec'd Sep 29/09
Replace vehicle #706 with new #716	50,000	38,153.54	Rec'd Jul 20/09
Scrap-It Revenue, Veh #706	0	-2,000.00	ETA Sep/09
Replace chrome wheels with steel wheels on Veh #716	0	2,006.25	Rec'd Jul 20/09
In-House upgrades to Veh. #716 Seat covers, truck bed, mud flaps	0	819.14	Rec'd Aug 10/09
In-House upgrades to Veh. #716 Tool Crib (estimated)	0	2,000.00	ETA Sep/09
Replace vehicle #306 with new #316	75,000	35,943.09	Rec'd Sep 17/09
Service Body, for #316 (estimated)	0	39,000.00	ETA Nov/09
Replace vehicle #704 with new #714	160,000	135,572.99	ETA Dec/09
Replace Mower Head #375,** premature catastrophic failure,	0	13,375.00	Rec'd Aug 10/09
TOTAL	\$308,000.00	\$290,400.21	

** not originally forecasted for replacement in 2009 and was not indicated as such on 2009-2013 Equipment Fleet Summary.

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October, 2009**