

Tsunami Readiness – Safety Minute

- On Tuesday a quake with a magnitude of 8.2 struck at about 1:30 a.m. Pacific time.
- Centered 278 kilometers southeast of Kodiak, Alaska, at a depth of about 10 kilometers.
- This prompted a tsunami warning for coastal Alaska and Canada's British Columbia,
- At 4:30 a.m., a message from Emergency Management B.C. cancelled the warning

Are you ready for a tsunami?

- *When the emergency alert came early Tuesday morning, through a mishmash of text alerts, sirens, phone calls from faraway relatives or a knock on the door, West Coast residents' responses ranged from rolling over in bed to heading for a nearby peak.*
- **Vic-Alert system went from 6,400 subscribers to 34,000 in one day!**

3 Levels of Tsunami Notification

- **Tsunami Warning:**
Imminent threat;
What to do? Residing in low-lying coastal areas are to move to higher ground immediately and take their emergency kit with them.
- **Tsunami Advisory:**
Expectation of strong currents and/or low amplitude wave activity in Victoria.
What to do? Stay off local beaches, marinas and harbours.
- **Tsunami Watch:**
An early alert;
What to do? Those residing in low-lying coastal areas should be prepared to move to higher ground.
- **Your responsibility**
- Prepare an emergency plan,
- You will need enough supplies to be self-sufficient for at least 72 hours
- Prepare an emergency kit

Sign Up for Alerts

Core Area Wastewater Treatment Project Board



October - December 2017 Quarterly Report
January 25, 2018



Overall the Wastewater Treatment Project progressed as planned with no changes to the construction/commissioning start and completion dates.

The Mcloughlin Construction Site:

- excavation nearing completion;
- construction of tsunami wall continue;
- majority of contaminated material removed from site;
- completion of a truck turnaround;
- widening of Victoria View Road for the BC Hydro Right of Way;
- preparations for installation of foundations underway; and
- set up HDD operation for back reaming.





Ogden Point Site:

- pilot hole was complete;
- progressed to 34" reaming pass;
- preparation for pipe installation from Niagara Street continued;
- Based on progress installation of pipe may be brought ahead



Residuals Treatment Facility (RTF)

- In procurement phase and progressed as planned.
- Technical/financial submissions evaluation completed.
- District of Saanich council approved expanding the Water Service Area Boundary
- Hartland Resource Management Group were selected as preferred proponent to design, build, partially finance, operate and maintain the RTF.
- Initial kick-off meeting held.
- On track for Financial Close in Spring 2018.





Clover PS Public Space Improvements

The Conveyance System The procurement of the two design-build Conveyance System contracts progressed over the reporting period:

Clover Pumping Station and Public Realm Improvements:

- Kenaidan Contracting selected as preferred proponent;
- 30% design workshop held in November;
- City of Victoria and Lekwungen representatives in attendance; and
- 30% design for the Public Space Improvements presented to City of Victoria Council.

Macaulay Pumping Station:

- design Build proposals were received and evaluated in December; and
- contract award is expected in January 2018.

The five design-bid-build Conveyance System contracts were in the engineering phase. Progress over the reporting period included:

Clover Forcemain

- **Kerr Wood Leidal:**
 - reviewed indicative design;
 - completed geotechnical assessment of the alignment;
 - The report concluded Dallas road alignment is suitable for construction of the Clover Forcemain from a geotechnical perspective and that the forcemain can be constructed and operated without an adverse environmental or geotechnical impact on the Dallas Road Bluffs and James Bay Seawall;
 - 30% design workshop held in November;
 - City of Victoria and Lekwungen representatives in attendance;
 - 30% design for the Clover Forcemain alignment and cycle path presented to City of Victoria Council; and
 - based on Council feedback to mitigate parking impacts – two options developed.

Residuals Conveyance Line:

- Parsons selected as the Engineer of Record;
- indicative design review workshop held;
- alignment presented to community at Public Open Houses in Saanich, Victoria and Esquimalt; and
- coordination with MOTI at MacKenzie Interchange.

Contractors in place by end of Q2 2018

Arbutus Attenuation Tank

- Kerr Wood Leidal (KWL) continued to finalize the drawings and specifications.
- Project Team met with Vancouver Island Health Authority (VIHA):
 - discussed utilization of VIHA property across the street from Arbutus site as a contractor laydown area;
 - KWL and the Project Team, at VIHA's request, are assessing the viability of using an area next to the site of the Arbutus Attenuation Tank rather than VIHA property;
- **KWL is preparing a proposal at the District of Saanich's request, to extend the Arbutus Road frontage improvements beyond CRD property line with the understanding that associated costs would be borne by the District of Saanich:**
 - sidewalk;
 - cycle path; and
 - storm drainage.

ECI/Currie Forcemain/Currie Pumping Station

- Non critical path
- Still in planning phase





The dashboard below indicates the high level status of each project component with regards to the six Key Project Indicators (“KPI”) that were defined within the Project Charter.

Key Performance Indicators		WTP Project Overall	WWTP	RTF	Conveyance System
Safety	Deliver the Project safely with zero fatalities and a total recordable incident frequency (TRIF) of no more than 1.				
Environment	Protect the environment by meeting all legislated environmental requirements and optimizing opportunities for resource recovery and greenhouse gas reduction.				
Regulatory Requirements	Deliver the Project such that the Core Area complies with provincial and federal wastewater regulations.				
Stakeholders	Continue to build and maintain positive relationships with First Nations, local governments, communities, and other stakeholders.				
Schedule	Deliver the Project by December 31, 2020.				
Cost	Deliver the Project within the Control Budget (\$765 million).				



Safety

- Total Person Hours Worked to Date – 125,127
- Total Number of Employees – 102
- One near miss – Ogden Point:
 - leak at high pressure hose fitting;
 - cleaned up immediately;
 - no impact to environment or public; and
 - HRP's corrective actions include a rigorous daily equipment inspection prior to commencement of work.



Estimated 5,000,000 total person hours

Environment

- Completed an on-site assessment of environmental controls at the McLoughlin Site,
- HRP completed marine baseline studies to support an application to Fisheries and Oceans Canada (DFO),
- Scope of work for both Parsons and Kerr Wood Leidel (as Design Consultant) to complete a terrestrial EIS for the Residual Solids Conveyance Line and Clover Forcemain.
- Site characterizing and delineating contaminated materials at the McLoughlin Point site,
- Millennia completed studies in support of Site Alteration Permit applications for Project works,

Regulatory Management

- Kenaidan submitted an application to the City of Victoria for a Delegated Development Permit to authorize construction of their lay-down area,
- Kenaidan submitted an application for a Notice from the Director to Construct under Section 40 (b) of the MWR,
- CRD received a License of Occupation from the Province for work at Clover Point,
- Millennia submitted a application for a Site Alteration Permit for the Clover Point laydown area,
- The Project team, CRD, Stantec and HRP met with ENV to plan the post-construction marine environmental monitoring program and to review the scope of HRP's Marine Environmental Impact Study,
- The Project team, CRD and Millennia met with the Archaeology Branch of the Ministry of Forests, Lands, Natural Resource Operations and Rural Development to discuss the Project and associated archaeological permitting,



Community Information Open House Key Themes

Four Meetings held in Saanich, Victoria and Esquimalt

- traffic management;
- route selection and alignment;
- tsunami and earthquake protections;
- construction schedule, impacts and mitigation;
- construction and operating noise and odour;
- total cost of project;
- Niagara Street pipe pull;
- location of pump stations;
- finished surface of Centennial Trails;
- Dallas Road cycle path;
- requests for information meetings;
- employment, supplier and contractor interest; and
- requests to be added to the email update list.



Significant Public Engagement during the Quarter



Stakeholder Engagement

The Project maintained its ongoing two-way Communications and Engagement program to provide Project information to stakeholders, communities and the public and to respond to public inquiries.

The key focus over the reporting period was to keep residents and stakeholders informed of Project plans, progress and construction information, and to receive and respond to questions and concerns raised by the community.

Materials and methods included a public inquiry program, Project website updates, construction notifications, community and stakeholder meetings and door-to-door notifications.

The Project website, wastewaterproject.ca, was updated throughout the reporting period, containing construction notices, media releases, information boards from the Community Information Open Houses, relevant reports, and updates to the “Community Questions” webpage to provide stakeholders with answers to commonly-asked questions. In addition, weekly McLoughlin Point blasting schedules were posted to the website to ensure the public is aware of what to expect in the upcoming week.

16,025 page views of the Project website during this Quarter



December 14th 2017 - City of Vic Presentation

Clover Point Pumping Station and Public Space Improvements

Clover Forcemain Alignment and Cycle Path discussion;

- Track width
- Buffer width between track and road
- On-street parking

Next Steps

- Public input until end of January 2018
- Complete 50% design
- Report back to Vic Counsel late Feb, early March



W̱SÁNEĆ Tour

In December, attended the quarterly W̱SÁNEĆ Leadership Committee meeting with the CRD and four W̱SÁNEĆ Nations.

The W̱SÁNEĆ Leadership Committee is the forum for the CRD and the four W̱SÁNEĆ Nations to meet and share information on CRD related activities and projects in W̱SÁNEĆ traditional territory; identify areas of common interest; and work towards developing future agreements.

The Project Team presented information on the Project and along with CRD staff, discussed W̱SÁNEĆ concerns about the Project and the Hartland Landfill.

The Project Team and CRD provided additional information to the W̱SÁNEĆ Nations following the meeting, and the Project team and

Regularly scheduled meetings to continue consultation and engagement activities with the W̱SÁNEĆ Nations.

Costs and Contingency

Costs

- Expended to date \$118 M or 15% of budget
- As expected – expenditure will increase as construction ramps up in 2018

Contingency

- Expended to date \$6.3M or 9%
- Over the Quarter
 - WWTP - \$2.4M for site remediation and disposal of contaminated materials
 - Conveyance - \$2.5M for Clover Point Pumping Station award

Backup Slides

Contingency and Program Reserve

- The contingency and program reserve draws over the reporting period are itemised in these tables.
- The remaining contingency and program reserve is anticipated to be sufficient to deliver the Project within the Control Budget.

WTP Contingency and Program Reserve Draw	Draw Date	\$ Amount
Total Contingency and Program Reserve Draw as at Sep. 30, 2017		\$1,467,698
McLoughlin Point Site Remediation: Hydrocarbon Contaminated Material and Hazardous Waste	Oct -17	\$1,668,441
Geotechnical services for independent review of the design of the foundation system proposed for the McLoughlin Point	Oct -17	\$100,000
McLoughlin Point Site Remediation: excavation and disposal of contaminated soil (metals and chlorides) from the Ogden Point site	Nov-17	\$65,949
Supervening Events #2 (Contaminated Soil) - 2 nd payment	Dec-17	\$112,934
Supervening Event #6 (Chloride Impacted Soil) - 1 st payment	Dec-17	\$445,013
WWTP Total Draw		\$2,392,338
RTF Total Draw		\$0
Clover Point Pump Station Design-Build Contract - proposal price greater than budget on account of cost escalation due to inflationary pressures in the Victoria area construction market.	Oct-17	\$2,448,800
Clover Point Pump Station Design-Build Contract Honorarium fee for unsuccessful bidders	Oct-17	\$47,619
Conveyance Total Draw		\$2,496,419
PMO Total Draw		\$0
BC Hydro Total Draw		0
WTP Program Reserve Draw		\$0
Total Contingency and Program Reserve Draw as at Dec 31, 2017		\$6,356,454
Total Contingency and Program Reserve Remaining		\$62,961,597

Contingency for the Quarter