

Construction Impacts

The Seaterra Program will work with municipal staff and the public to ensure that construction impacts are kept to a minimum.

HOW LONG WILL CONSTRUCTION OF THE RRC & CONVEYANCE PIPE TAKE?

Clearing and leveling of the Hartland North site will be performed, as required, in preparation for construction of the project. It is anticipated that construction will begin in the second quarter of 2015 and be completed by the end of 2017.

HOW WILL THIS AFFECT MY COMMUTE?

Prior to construction, a traffic management plan will be developed to address safety, work zone speed limits, parking issues, traffic disruptions and truck traffic, especially during construction of the conveyance pipe system. Some lane closures will occur during this construction period.

WILL THE NOISE FROM CONSTRUCTION KEEP ME UP AT NIGHT?

Construction activities will comply with the applicable District of Saanich bylaws for hours of work and noise levels. Work will usually occur on weekdays from 7 a.m. to 6 p.m.

No work will be planned for Sundays, or holidays (except in an emergency or where a critical piece of work must be completed promptly to reduce impacts).

WHAT HAPPENS WHEN THERE IS A STORM? I DON'T WANT CONSTRUCTION MESS CLOGGING UP THE STORMDRAINS.

A stormwater management plan will be prepared prior to the start of construction. The plan will identify strategies for managing rainwater during construction. Erosion and

sediment control plans will be prepared and implemented during construction.

WHAT ARE YOU DOING TO KEEP CONSTRUCTION FROM AFFECTING THE AIR QUALITY?

The CRD Code of Practice for "Construction and Development Activities" will be used to minimize dust and mud impacts.

HOW WILL I BE INFORMED ABOUT CONSTRUCTION TAKING PLACE IN MY AREA?

Information letters (with contact names and phone numbers) will be provided to local residents and community associations at the start of construction and updated, as required, throughout the project. Construction updates can also be found at: www.seaterraprogram.ca.

Further Information

Seaterra Program staff are working with local community associations to coordinate information sessions and provide opportunities for local residents to share their concerns and ideas between now and when the RFP is issued. A community liaison committee will be established in the spring of 2015 to ensure that concerns are addressed during construction.

Additional information about the Resource Recovery Centre is available at www.seaterraprogram.ca.

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CRD
Making a difference...together

Project Background

The Seaterra Program will provide wastewater treatment for CRD core area municipalities. The Program includes:

- >> Wastewater Treatment Plant at McLoughlin Point
- >> Resource Recovery Centre (RRC) at Hartland landfill
- >> Pumping stations and interconnecting conveyance pipes

The Resource Recovery Centre (RRC) is one of the major components of the Seaterra Program and will be located at

Hartland landfill. Residual solids from the Treatment Plant at McLoughlin Point will be piped to the RRC where they will be treated and processed into biosolids.

The Seaterra Program will issue a Request for Qualifications (RFQ) for the RRC in December 2013. A shortlist of proponents will be invited to respond to a Request for Proposal (RFP) to be issued by Seaterra in spring 2014.

The selected proponent will design, build, finance and operate the RRC.

The CRD has made the final decision to site this facility on the Hartland North site, located to the north of the active landfill and adjacent to Willis Point Road. Local residents will have the opportunity to provide comments and feedback which will inform the facility planning and the RFP process.

Why Hartland?

In the last four years a total of 58 locations were identified as potential sites for the RRC. The Hartland landfill site was confirmed as the preferred option for the RRC for many reasons, including:

- >> This site has the greatest distance from residential neighbours, over 1km
- >> It is not part of the Agricultural Land Reserve, a Park, or the Ecological Land Reserve
- >> There is low likelihood of residential encroachment in the future
- >> The land is owned by the CRD
- >> Locating the RRC facility next to the existing landfill will allow for future integration between the Region's solid waste and liquid waste management systems



Conveyance Pipe

HOW WILL THE RESIDUAL SOLIDS BE TRANSPORTED TO THE RRC?

An underground pipe will transport residual solids, made up of 2% solids, from the Wastewater Treatment Plant at McLoughlin Point to the RRC. A second underground conveyance pipe will deliver all extracted water back to the Treatment Plant. These pipes will be designed to rigorous industry standards to ensure their integrity. No wastewater will be released at Hartland landfill.

HOW CAN RESIDUAL SOLIDS BE MOVED THAT FAR UPHILL?

When people hear residual solids, what some people call sludge, they think of a thick mud. In fact, the residual solids being moved in the pipe are made up mostly of water (only 2% solids). The small particles of solids are then removed from the water and processed at the RRC to become biosolids. The extracted water will then be piped back to the Treatment Plant at McLoughlin Point.

WHERE WILL THE UNDERGROUND PIPE RUN?

The conveyance pipe route between the Treatment Plant at McLoughlin Point and the RRC has not been finalized. The preliminary routing has the pipe running along municipal right of ways along Interurban Road, West Saanich Road, and Willis Point Road. Once the route has been finalized, Seaterra Program staff will work with local communities to minimize construction impacts.



Biosolid Management

WHAT ARE BIOSOLIDS?

Biosolids are wastewater residual solids that have been biologically digested to reduce the volume, and to control pathogens and have much of the water removed at the RRC. These biosolids are nutrient-rich organic materials that meet B.C. Ministry of Environment regulatory standards and are safe to be recycled. Typically biosolids are used as fertilizer for forestry applications, for land reclamation and agriculture (land-application), or otherwise incinerated or buried in landfills.

WHAT ARE YOU PLANNING TO DO WITH THE TREATED BIOSOLIDS?

While processed biosolids are safe for a variety of uses, the end use of biosolids produced at the RRC must comply with CRD policy. The approved plan for the Seaterra Program is to produce biosolids for a beneficial use. In October 2013, the CRD Board upheld the policy to not use biosolids produced in the CRD for land application. The CRD and Seaterra Program are exploring alternative options for the end use of biosolids.

Addressing Some Key Community Concerns

WON'T THE RRC SMELL BAD?

No odours will be released from the facility as all facilities will be enclosed. Odour control systems to vent enclosures could include a combination of bio-filters, wet chemical scrubbing systems, and dry scrubbing systems, such as activated carbon. Backup systems and standby power will reduce the risk of untreated air discharges from the facility during a power failure.

ONCE THE RRC IS BUILT WILL I BE ABLE TO HEAR IT?

Noise from the operation of the RRC will be minimal and will comply with the current District of Saanich Noise Control Bylaw. Sound reducing building materials will be used to cut noise levels and special exhaust systems will be used to diminish the noise from backup generators.

HOW MUCH MORE TRAFFIC CAN I EXPECT TO GO TO HARTLAND?

Once the RRC is operational, the volume and frequency of traffic to the site will be minimal and depend on the end use of the biosolids.

HOW WILL I KNOW THAT THIS FACILITY WILL BE SAFE?

Design of the RRC will include backup safety features to comply with the Municipal Wastewater Regulation, and to reduce the chance of accidents and malfunctions.

OKAY, BUT WHAT IF SOMETHING GOES WRONG?

Once constructed, the RRC will have onsite operators during normal working hours and will be remotely monitored on a 24/7 basis.

WILL OUR WATER BE AT RISK BECAUSE OF THE RRC OR THE CONVEYANCE PIPE?

All treatment processes will be completed within closed containers designed to the required earthquake standards. No water will be released from the RRC into the environment. Surface water quality will continue to be monitored near the RRC site by the CRD as part of the environmental monitoring program for Hartland landfill.

The conveyance pipe from the Treatment Plant to the RRC will be installed according to municipal guidelines and made of an extremely durable material which has been proven to perform well in earthquake-prone areas. The CRD has an ongoing operations and maintenance program in which pipes and pump stations will be regularly inspected.

WHAT HAPPENS IF THERE IS A LEAK?

A leak detection system will be designed into the RRC that will automatically shut down pumping operations in the unlikely event that a leak does occur.

The CRD will prepare a stringent spill response plan that includes the immediate repair of the leak, groundwater monitoring and mapping of the spill impact area, removal, replacement and potentially disinfection of the contaminated material.