

# Update

September 2017

on the Comox Valley Waste Management Centre Engineered Landfill Cell 1 Construction

## Overview:

The Comox Strathcona Waste Management (CSWM) service is constructing a new engineered landfill and leachate treatment facility at the Comox Valley Waste Management Centre in Cumberland to serve the waste disposal needs of the region. Work has been ongoing on this exciting project and we are pleased to share some stories and images from the past couple of months. The information in this newsletter details the construction process and helps explain the project and how it benefits our community.

## Latest News:

The construction of Cell 1 and the equalization pond reached substantial completion on June 20, 2017. The placement of select waste in the new landfill began in August.

The detailed design of the leachate treatment facility was completed in May 2017 and construction is progressing on schedule. It is expected the facility will be complete by the end of September, with commissioning beginning in October.

### Highlights:

The finalized Cell 1 can be seen in [Photo 1](#). A temporary berm has been constructed to divert clean storm water away before it contacts any waste. The diversion of clean storm water will reduce the total volume of leachate generated in Cell 1. This helps to ensure sufficient storage capacity in the equalization pond and potentially reduces operating costs at the leachate treatment facility.

The finished equalization pond can be seen in [Photo 2](#). Leachate will be stored in this pond before being treated in the future onsite leachate treatment plant. A leak detection layer has been installed between the two lining systems in the equalization pond to continually monitor the performance of the liner and ensure environmental protection.

The pre-fabricated leachate treatment facility building is now assembled on site ([see Photo 3](#)). All of the treatment process equipment and machinery has been delivered and installation of the equipment, machinery, and piping is currently underway ([see Photo 4](#)).

The construction of the infiltration bed – where treated leachate will be returned as clean water to the environment – has been completed including excavation, piping installation and drain rock placement ([see Photo 5](#)). Testing and commissioning of the leachate treatment facility, including the infiltration bed, is expected to begin in October 2017.

The total Cell 1 and leachate treatment facility cost is estimated at \$15,858,000. An estimated \$3.6 million will be spent in locally supplied services, materials and equipment. The construction of Cell 1 has resulted in jobs for approximately 20 full-time workers from Vancouver Island. The construction of the leachate treatment facility is expected to result in work for approximately nine full-time/part-time workers from Vancouver Island. Approximately 5,528 work days will be created for the local workforce for the duration of the project.



1

Finished Cell 1 with storm water diversion berm



2

Finished equalization pond



3

Pre-fabricated leachate treatment facility building



4

Equipment and piping installation underway inside the leachate treatment facility



5

Excavation and construction of the infiltration bed