



# Project Fact Sheet

## Community Sewer System Improvements

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*Golden Receives funding from the New Building Canada Plan's Small Communities Fund to conduct large scale improvements.*

### **Friday July 31<sup>st</sup> 2015: Golden receives federal funding for Community Sewer System Improvements**

*Who is providing the funding?*

- The total estimated cost for this project is \$1,383,625.
- The funding is based on a 2/3 to 1/3 model that will see 2/3 coming from the Federal and Provincial governments and 1/3 coming from the Town of Golden.

*What will the money be used for?*

Community Sewer System improvements, including Sewage Treatment Plant Upgrades.

*Why are these upgrades needed?*

These upgrades will help to reduce energy consumption through reduced ground water/surface water infiltration; increase system capacity through the reduction of infiltration; enhance treatment capabilities and reduce odour/green house gas generation through improved aeration.

*More details on the upgrades at the Sewage Treatment Plant.*

#### **Lagoons (liners and new aeration system for four ponds)**

- Environmentally, sealing the ponds is a great thing to do. The lagoons are not presently lined, increasing the risk of waste water seeping into the ground or river. This is especially important when water levels are down as that is when there is the greatest risk of seepage.
- The aeration system is a network of piping that circulates oxygen through the ponds. Replacing the system will improve the treatment process and reduce odour generation.

#### **Centrifuge Renewal**

- The final step in waste management is dealing with solids. The centrifuge system separates liquids from solids.
- The current centrifuge was installed in 2004 and is in need of inspection and renewal.

## **Lagoons Blower Replacements**

- The pond lagoons are supplied by air blowers. The current blowers were not upgraded in 2004 and are in need of replacement.

## **Sequence Batch Reactor Aeration System Replacement**

- This system, referred to as SBR was installed in 2004 and the aeration system will be replaced with new equipment during the updates. This will also improve the treatment process and help to reduce odour.

## **Offsite Improvements:**

### **A&T Lift Station (flood proofing and electrical enhancements)**

- This lift station, located by Fountain Tire, is subject to flooding in the spring. This results in considerable additional pumping due to infiltration. By making some improvements here, Operations staff can reduce the amount of pumping required and lesson electrical consumption – good news for the environment!

### **12th St Lift Station (flow meters and odour control)**

- Operations staff plans to install a “charcoal scrubber” – an air filtration system so that when air is vented at this site, the odours will be greatly reduced.
- This lift station is also the last in the line before the treatment plant. Installing the flow metres will mean that staff can accurately measure 100% of influent going into the treatment plant. This, in turn will enable the Town to measure the effects of seasonal groundwater infiltration into the collection system.

## **When will the upgrades take place?**

- Town staff is aiming to have the upgrades complete by the fall of 2017, with two ponds being upgraded in Spring 2016 and two being upgraded in Spring 2017. This is a multi-year project that has to be done in phases in order to ensure that the operation schedule of the plant is maintained.