

Spending Package Summary

Spending Package **Water 2021-01 - Groundwater Study - Railway Wells**
 Budget Year 2021
 Acct. Reference 21-6191
 Publish Date Nov 21, 2020 12:49 PM (PDT)

Explanation/Justification/Impact of not Funding Parksville's Railway Wells are in an area downstream of a residential subdivision that has both on-site wells and sewer treatment systems. Island Health now requires that a study be done to assess the risk of these wells from sewage contamination. This is a provincial requirement called Groundwater At Risk of Containing Pathogens (GARP). This study needs to be completed by a professional hydrologist.

Strategic Plan Theme / Decision Points This study falls under council's Environmental Awareness values for public safety.

Cost /Benefit Analysis This is an important study to learn if the railway wells are at risk of contamination. This study will not only show the state of the aquifer but could lead to additional treatment costs of the well water. State the frequency of having to do this study so it can be put into the long range budget. I would also state that the benefit is the protection of safe drinking water for the public.

Operating Budget Details

Object Code	Position	Description	2021 Budget
Expenses			
6191 -Minor capital			
331 - Consulting		Railway Well Study	45,000
Total 6191 -Minor capital			45,000
Net Total			45,000

Spending Package Summary

Spending Package **Water 2021-02 - SCADA System Upgrade**
 Budget Year 2021
 Acct. Reference 21-9011
 Publish Date Nov 21, 2020 01:04 PM (PDT)

Explanation/Justification/Impact of not Funding
 The City's water distribution/sewer collection SCADA (Supervisory Control and Data Acquisition) system is 10 years old and is no longer supported by the program manufacturer. A SCADA system is a computer that controls when the pumps in well will run and allows the operators to monitor the water and sewer system, make adjustments and respond to failures both at the office and remotely. Also, with the integration of the new ERWS water treatment plant a few shortfalls have become apparent; most importantly, the ability to receive the required alarm signals from the plant remotely, and to allow operators to respond appropriately. It has been recommended by our SCADA programmer to upgrade the SCADA system before it fails completely. This would be catastrophic to the water and sewer system operation requiring many operators to manually adjust the flow of water and sewer at each site without computer control. Many overtime hours would also be required. There would also be a risk of a sewage spill if the lift stations weren't monitored correctly.

Strategic Plan Theme / Decision Points This spending package falls under council's Environmental Awareness value by keeping our drinking water and sewer collection systems safe for the public.

Cost /Benefit Analysis The total cost to have a programmer upgrade our SCADA system is \$40,000. Since the SCADA system monitors the water system and the sewage system a split in the cost of 25% Sewer (\$10,000) and 75% water (\$30,000) is recommended.

Capital Budget Details

Object Code	Fund	Description	2021 Budget
Expenditure			
9011 - SCADA System			
330 - Contracts	2 - Water Utility Fund	SCADA system upgrade - Water portion	30,000
Total 9011 - SCADA System			30,000
9511 - Scada System - Sewer			
330 - Contracts	3 - Sewer Utility Fund	SCADA system upgrade - SS portion	10,000
Total 9511 - Scada System - Sewer			10,000
Net Total			40,000

Spending Package Summary

Spending Package **Water 2021-03 - Meter Box Lid Replacement**
 Budget Year 2021
 Acct. Reference 21-6162
 Publish Date Nov 21, 2020 01:48 PM (PDT)

Explanation/Justification/Impact of not Funding

Parkville's past engineering standards allowed for plastic water meter boxes in driveways. These are not acceptable anymore as the lids have cracked and failed due to loading from vehicles. These lids can be replaced using steel ones that fit into the existing box and are designed for vehicle loads. Replacing the plastic meter box lids with steel lids saves the additional cost of staff cutting concrete driveways and replacing the entire box and lid. Homeowners would prefer this option as it leaves their driveways untouched. All of these lids would be replaced over a 2 year program. There are 160 identified plastic lids that will need replacing. 80 lids would be replaced in 2021 and 80 in 2022. Not replacing these lids will be increased liability to the City from claims for damage as homeowners may trip or fall through, should the lids break.

Strategic Plan Theme / Decision Points

This spending package falls under council's Quality Service value with public safety in mind.

Cost /Benefit Analysis

We have had homeowner complaints about the safety of the current plastic lids. We have identified and made a list of all of the plastic lids in driveways that should be replaced. The investment in this short-term program will reduce the City's risk for claims and provide a less costly option to a full box replacement. It also provides good customer service in a pro-active manner. In the first year 80 lids would be replaced at a cost of \$26,000, the second year would also be \$26,000.

Operating Budget Details

Object Code	Position	Description	<u>2021 Budget</u>
Expenses			
6162 - Water meter R & M			
450 - Parts, Materials and Supplies		Water Meter Lid Replacement	<u>26,000</u>
Total 6162 - Water meter R & M			<u>26,000</u>
Net Total			<u><u>26,000</u></u>