

# Willowbrook Water System: Treatment Upgrades

In 2017, the Interior Health Authority (IHA) completed an assessment called a Groundwater at Risk of containing Pathogens (GARP) assessment. The GARP assessment determined that the system is at risk of influence from pathogenic bacteria and viruses and the well may be receiving contaminants from the surrounding area. Based on the results of this assessment, IHA placed the system on a boil water notice until adequate water treatment is in place.

The original design of the water main system did not provide adequate contact time for the chlorine to disinfect the water prior to reaching the first customer's connection. To address this issue the Regional District chose to install a new section of water main that will provide the necessary contact time.

In 2019, The Regional District applied for a 100% funded grant to install the new section of water main. Funding for the project was approved in February of 2020 and once notification was received the RDOS immediately begin searching for an engineering firm to provide design and construction services for the project, Associated Engineering was ultimately chosen as the preferred consultant for the project, and completed the design for the new infrastructure.

Grizzly Excavating Ltd. was contracted to construct the new water main in the summer of 2020.



*Watermain burial and compaction.*

Following the construction and commissioning of the new water main IHA completed an assessment on the new system and determined the water system has a properly constructed chlorine disinfection system that meets all regulations for single barrier water treatment and on July 29, 2020, the water systems boil water notice was lifted.