

CITY OF SALMON ARM WASTEWATER TREATMENT PLANT SITE SELECTION OPEN HOUSE

Here are a few things that are important to consider when assessing sites for new wastewater treatment infrastructure:



There is a moratorium on new outfall discharges into Shuswap Lake so any new system has to discharge treated effluent into the existing outfall. Permitting a new outfall into the Lake would not be feasible.



Zoning and property ownership will affect the viability of new sites. The Agricultural Land Reserve is prioritized for farming and non-agricultural uses are typically restricted.



Any new site must have sufficient space for use in the long-term, estimated to be a minimum of 1.5 ha to 2.0 ha (50 to 100 year site life).



Proximity to residential and commercial areas must be considered for odour risk and visual aesthetics.



Truck traffic to and from the WPCCC site for biosolids transport.



Elevation of new site relative to existing WPCCC is important to understand long-term pumping costs



Impact on riparian areas or other sensitive environmental areas.



Site elevation must be above 200 year flood plain elevation (351 m) or facilities will require floodproofing.



Wastewater would be collected and conveyed to a new WPCCC site via the Wharf Street Pump Station location. This will require either upgrades or a replacement of the pump station at this location, and a pipe to the new site.



Costs for new wastewater treatment and conveyance infrastructure.

Evaluation System



Relative costs of the new wastewater treatment and conveyance infrastructure. This represents a likely cost premium for the new conveyance infrastructure only required for each option.

GREEN	\$0-10M cost premium
YELLOW	\$10-20M cost premium
RED	\$20M+ cost premium



Environmental impacts, energy consumption and material usage of proposed new infrastructure.

GREEN	Least potential impact
YELLOW	
RED	Greatest potential impact



Short term construction impacts and long-term visual, noise, or odour impacts to residents and businesses.

GREEN	Least potential impact
YELLOW	
RED	Greatest potential impact



Technical feasibility and regulatory considerations of proposed infrastructure.

GREEN	Most feasible
YELLOW	
RED	Least feasible



Other regulatory, cost and construction risks.

GREEN	Lowest risk
YELLOW	
RED	Highest risk