

# Technical Committee Update on Waste Water Treatment Plant Site Selection Report

April 7, 2015

# Site Selection

- \* The Technical Committee has carried out four tasks in order to determine potential sites for a waste water treatment plants(s)
- \* These tasks are:
  - \* Participation in first round of open houses
  - \* Review of information received from Request for Technical Information
  - \* Review of potential flows and flow scenarios
  - \* Review of potential sites that could be utilized as treatment sites

# Participation in Open Houses

- \* Members of the Technical Committee participated in the various open houses in order to provide technical context to residents
- \* Participation also allow the Committee members to gain an understanding of resident concerns and possible site restrictions
- \* Reviewed and utilized information from open house surveys to assist in the selection of potential site location(s)

# Request for Technical Information

- \* Due to the content of the information submitted it could only be used for the development of a conceptual understanding of the requirements for a treatment system
- \* No detailed analyses having been carried out on any of the submissions to determine pros and cons of the given technology with respect to treatment, resource recovery and final site requirements

# Request for Technical Information

- \* The submissions claimed that they could achieve secondary treatment requirements
- \* Information was also provided on potential tertiary and bio solids treatment systems that could be incorporated into the treatment process train
- \* This information was very high level in its nature but the Committee concluded that tertiary and bio solids treatment is probably possible for the potential sites
- \* Confirmation of the latter conclusion requires verification by a further detailed analysis

# Flow Verification

- \* Reviewed flows generated by each West Side participant against the Allocation Flows
- \* Assumptions have been made for the Saanich and Victoria flows entering the centre trunk main due to lack of information from the East Side
- \* Total flow expected (2030) is just under 50 ML/day
- \* Seven reasonable flow scenarios were determined that see the number of plants ranging from four to one

# Potential Locations for Plant(s)

- \* Site selection criteria:
  - \* Size of potential plant locations
  - \* Proximity to residential lots
  - \* Proximity to trunks
  - \* Potential district energy systems and resource recovery opportunities
  - \* Disposal of treated effluent
  - \* Emergency overflow treatment of untreated effluent
- \* A total of 18 possible sites have been identified in Westside communities

# Next Steps

- \* Draft report is being finalized for presentation to the Select Committee
- \* Issue of identification of private properties as potential sites requires clarification
- \* Participation in next round of public engagement activities