

Westside Technical Team Analysis

In the time available to fully consider the report authored by Urban Systems for Phase 2 of the Westside Wastewater Treatment Plant Siting Analysis, the technical committee has conducted a high level assessment to help inform recommendations and actions in moving the wastewater treatment and resource recovery process forward for the Westside. Regardless of the time constraints, the technical team has great confidence in the work done by Urban Systems in the short period of time and limited budget available to do the level of analysis that this important project deserves.

The report highlights several important points for consideration, most notably issues regarding dealing with solids, and enlisting the private sector in providing solutions that meet the outcomes to be articulated by decision makers.

As this report is only one step in the overall project, it is hoped that following steps will incorporate a more comprehensive and detailed evaluation of the following factors in order to arrive at a decision that best meets the needs, values and aspirations of the communities:

- Integration of public opinions as indicated in the various public engagement activities over the last year and how it applies to the characteristics of each solution set,
- Full life cycle costing as per industry standards - potentially over 50 years
- Further and a more thorough cost analysis including potential revenues and cost offsets with sensitivity analyses for those factors that are very difficult to forecast, e.g., availability and value of water,
- Inclusion of costs associated with acquiring sites for proposed facilities,
- Exclusion of those sites that are not available for acquisition,
- Quantifying non-financial benefits and liabilities associated with options particularly associated with water reclamation, energy recovery and climate change, and
- Addressing the need for resiliency within proposed solutions.

As a final note it needs to be documented that the flows used in the report do not match the flows now anticipated from Saanich and Victoria West. Unfortunately these revisions were received too late to be used in the calculations. Clearly the conclusions on viable sites – particularly in Esquimalt - could be affected by the significant difference in these numbers and must be addressed without delay.

Based on the draft report the following matrix broadly summarizes the characteristics of the three solution sets covered by the report and in accordance with the decision criteria support by the Select Committee in its Project Framework.

West Side Option Set Matrix	Positive Neutral Fair			NC	North Colwood	Lang	Meaford	
	Option 4A - Lang/NC/VR/EFN Four Plant			EFN	Esquimalt First Nation	VR	View Royal	
Criteria				Option 1B - EFN One Plant			Option 2C - NC/EFN Two Plant	
Capital \$			Fair	Positive				Neutral
Operating \$		Neutral			Neutral			Neutral
Life Cycle \$			Fair	Positive			Positive	
Existing Infrastructure			Fair	Positive				Neutral
Revenue and Resource		Neutral			Neutral		Positive	
Water re-use		Neutral				Fair	Positive	
Capacity Phasing	Positive			Positive			Positive	
Carbon Footprint			Fair	Positive				Neutral
Positive and Safe for Public	Positive				Neutral		Positive	
Water Quality Tertiary	Positive					Fair		Neutral
Size	Positive				Neutral		Positive	
Near Trunk Main	Positive			Positive			Positive	
Near Truck Route	Positive			Positive			Positive	
On Site Solids (EFN)	Positive			Positive			Positive	
Include other waste (EFN)	Positive			Positive			Positive	

The matrix presented above is not intended to be an in depth and definitive recommendation from the WTC, however it may assist the reader in comparing the 3 options presented.