Comparative Analysis

What is a Comparative Analysis?



A systematic process to determine which options have more advantages than others (or least negative effects).



Used to select a recommended method amongst a range of options.







The evaluation of options.

Examples of a Comparative Analsysis (Landfill)

Evaluation	n Criteria	Indicators	Option A	Option B	Option C				
Natural Environment									
Geology & Hydrogeology	Effect on groundwater quality For the set of	 Predicted effects to groundwater quality at property boundaries 	No effect to groundwater flow at property boundaries and off-Site.	No effect to groundwater flow at property boundaries and off-Site.	No effect to groundwater flow at property boundaries and off-Site.				
		and off-Site	NO NET EFFECT	NO NET EFFECT	NO NET EFFECT				
		Ranking	1st	1st	1st				
			There is no distinction between the Options in relation to geology and hydrogeology. All Options rank the same.						
		Rationale	Given the landfill will be designed to meet or exceed O.Reg. 232/98 requirements, and that inward hydraulic gradients will be maintained into the Site, there are no predicted effects at the property boundaries and off-Site for any of the three Landfill Configuration Options in terms of groundwater flow or groundwater quality. Therefore, all Options are equally acceptable from a Geology/Hydrogeology perspective.						

Evaluation Criteria		Indicators	Option A	Option B	Option C				
Built Environment									
Agriculture	Effects on existing agricultural land base	 CLI soil capability classification 	Minor reduction in agricultural capability from existing conditions (36.7 ha of CLI Class 2 T lands and 25.87 ha of CLI Class 5T lands). LOW NET EFFECT	Minor reduction in agricultural capability from existing conditions (51.4 ha of CLI Class 3T lands and 11.17 ha of CLI Class 5T lands). LOW NET EFFECT	Minor reduction in agricultural capability from existing conditions (45.0 ha of CLI Class 2T lands and 17.57 ha of CLI Class 5T lands). LOW NET EFFECT				
Ranking			3rd	1st	2nd				
Rationale			Option B is preferred over Option C, and Option C is preferred over Option A. The three alternatives primarily differ in the amount of land available for an agricultural end use, with Option B having the greatest area of agricultural end use. Although Option B will be primarily comprised of CLI Class 3 lands and Option A and C will be primarily comprised of CLI Class 3 lands and Option A and C will be primarily comprised of agricultural end available for agricultural production will outweigh any potential decreases in crop yields associated with the lower CLI Clapability.						

Most Preferred

Less Preferred

Least Preferred

