

Maple Lake Site Compared to FAST Treatment System
Municipal Class EA - Part C Municipal Wastewater Projects
Typical Effects on the Environment caused by construction activities

Source: 1993 Class EA for Municipal Water and Wastewater Projects

	FAST System	Maple Lake Site
AESTHETICS removal of vegetation or landscape features change of compatibility with landscape residents, non-residents, recreationalists and tourists exposed to new view	* * *	negative impact - removal of vegetation negative impact - will work with existing landscape negative - moderate - residents are far enough away that exposure would be minimal however, there is a hiking trail within the vicinity that maybe exposed to the view.
CLIMATIC EFFECTS vegetation removal or snow accumulation, wind screening and shade on adjacent buildings and activities change in air quality	*	negative - minimal - will have to remove some vegetation which may cause snow accumulation however adjacent building and activities are far enough away there would be no impact on surrounding properties None
ECONOMIC AND SOCIAL EFFECTS change to tax base change in employment opportunities change in tax rate or cost of service	* * *	negative - potential increase in taxes. Low capital costs approx. \$ 200 K positive - possibility of an employment opportunity negative - potential to increase taxes or to charge for service
GROUNDWATER change in quality interference with flows or levels		none - effluent is of good quality none - will not interfere with groundwater flows or levels
PUBLIC HEALTH effects on quality of life e.g. decreased sewage back-up	*	positive - peace of mind
NOISE & VIBRATION changes in existing noise and vibration levels	*	negative - minimal during construction
RECREATION effects on quality of user experience due to environmental changes	*	negative - minimal - users of the hiking trail located near the landfill may be able to see the treatment system, however system will try to blend into landscape
RESIDENTIAL, COMMERCIAL, INDUSTRIAL, INSTITUTIONAL temporary disruption during construction nuisance odours	*	negative - minimal - possible industrial impact during construction i.e. impede traffic none
SOIL AND GEOLOGY erosion or compaction during construction contamination of soils mixing of topsoil with subsoil	* * *	negative - soil will be compacted during construction activities negative - possibility of soil contamination i.e. spills negative - possibility of mixing of soils
SURFACE DRAINAGE increased surface runoff decreased surface water drainage		none - surface water runoff will not increase none - no effect on surface water drainage
TERRESTRIAL VEGETATION AND WILDLIFE mortality/stress of vegetation due to sediment deposition, construction equipment movement or changes in soil moisture conditions resulting in reduction and/or deterioration of wildlife habitat changes in vegetative composition as a result of environmental changes removal or disturbance of significant trees and/or ground flora new or increased exposure of trees leading to increased loss of habitat for wildlife effect on wildlife habitat effect of contaminants on vegetation and wildlife	* * * * *	negative - high - vegetation will be impacted due to construction. minimal impact due to increased soil moisture negative - moderate - vegetation will be removed resulting in the reduction of wildlife habitat. none - no changes in vegetative composition negative - moderate - trees and/or ground flora will have to be removed - 0.5 ha for treatment negative - moderate - new areas of trees will be exposed leading to loss of habitat negative - high - some habitat will be lost none - only contamination on site would result from spills which should be cleaned, and may act as fertilizer