

Ecoflo Biofilter													
Site	Primary Treatment Required	Land Requm't	Required Disposal Area	Total Land Requm't	Hydro Requm't	Sludge Requm't	Operational Requirements	Maintenance	Annual Operation/ Maintenance Costs	Optional	Security Required	Budget Cost	Water Quality
Maple Lake	Yes - new septic tank sized to provide >2 days retention time (>73,000 L) equipped with Zabel A300 effluent filters (1/32"filtration) and a balance tank sized to accommodate >0.5 day retention time (>18, 250 L) and Monarch Submersible Pumps	~ 0.5 ha for treatment system approximately 17 units will be required.	0.123 ha	0.623 ha	Yes	Sludge will accumulate in bottom of septic tank - will need to be removed on a scheduled basis -estimated costs will depend on amount generated and location of disposal (land applied in landfill or Municipal Sludge treatment facility)	Daily inspections Full time staff may be needed, depending on transfer station option	An annual preventative maintainence package is included for the life of the filter (8 years). This includes visual inspection of the system's internal components and raking of the peat filter to ensure proper operation. Also inclcudes sampling of filter effluent at a rate of once durein the first 12 month of operation and every 48 months thereafter. After the 8 years the peat is pumped out using a sewage disposal truck and a new bed installed. The approximate cost of this media replacement is \$, 100 and icnludes a renewed annual preventative maintence package on the new filter.	\$10,000-\$15,000	A remote monitoring system could be installed for remote monitoring of the sewage treatmetn plant operations. This system integrates data acquisition and historical logging, alarm generation, and control cpabilities. The system typically monitors pump on-times, pump cycles, flow rates, temperatures, pump tank levels, and alarms.	Yes - fencing etc.	324,000.00 price includes treatment and pre-treatment	good
Pine Springs	Yes - new septic trnak sized to provide >2 days retention time (>73,000 L) equipped with Zabel A300 effluent filters (1/32"filtration) and a balance tank sized to accommodate >0.5 day retention time (>18, 250 L) and Monarch Submersible Pumps	~ 0.5 ha for treatment system approximately 17 units will be required.	0.123 ha	0.623 ha	Yes	Sludge will accumulate in bottom of trash tank - will need to be removed on a scheduled basis -estimated costs will depend on amount genereated and location of disposal (land applied in landfill or Municipal Sludge treatment facility)	Daily inspections Full time staff may be needed, depending on transfer station option	An annual preventative maintainence package is included for the life of the filter (8 years). This includes visual inspection of the system's internal components and raking of the peat filter to ensure proper operation. Also inclcudes sampling of filter effluent at a rate of once durein the first 12 month of operation and every 48 months thereafter. After the 8 years the peat is pumped out using a sewage disposal truck and a new bed installed. The approximate cost of this media replacement is \$, 100 and icnludes a renewed annual preventative maintence package on the new filter.	\$10,000-\$15,000	A remote monitoring system could be installed for remote monitoring of the sewage treatmetn plant operations. This system integrates data acquisition and historical logging, alarm generation, and control cpabilities. The system typically monitors pump on-times, pump cycles, flow rates, temperatures, pump tank levels, and alarms.	Yes - fencing etc.	324,000.00 price includes treatment and pre-treatment	good
option withdrawn - further research revealed that the Ecoflow system is not suitable for treatment of hauled sewage													