

Table 1.
Ecological Wastewater Systems in Lake Elmo, MN (Pinkham et al. 2004)

Development (date of startup)	Number of homes	Design Flow (gpd)	Treatment System	Disposal Method	Notes	Permit
The Fields of St. Croix Phase I (1998)	45 homes	11,000	Subsurface	Rapid Infiltration	Phase I is connected to Phase II for redundancy and overflow treatment capability	State
Hamlet on Sunfish Sunfish Lake (1998)	41 homes	8,200	Subsurface Flow Wetland	Infiltration Wetland		City
Tamarack Farm Estates (1998)	20 homes	4,000	Subsurface Flow Wetland	Mounds	Septic tanks on individual lots; small diameter gravity sewer on upper lots; pressure sewer on lower lots	City
Prairie Hamlet (1999)	15 homes	3,000	Subsurface Flow Wetland (aerated)	Drip Irrigation (subsurface)	Effluent used for landscape irrigation	City
The Fields of St. Croix Phase II (includes 20 homes at Tana Ridge) (2000)	88 homes	33,000	Recirculating Gravel Filter (aerated)	Infiltrator trenches	Tana Ridge purchased capacity from The Fields 2 system	State
Carriage Station (2001)	109 homes; professional/ office space	44,875	Recirculating Gravel Filter (aerated)	Infiltrator trenches	Also serves 40,000 sq. ft. commercial office space	State

Wildflower Shores (2001)	25 homes	3,600	Subsurface flow wetland (aerated)	Infiltrator trenches	City
Whistling Valley (2004)	18 homes initially; 22 total	11,000	Recirculating Gravel Filter (aerated)	Pressure-dosed Infiltrator beds	State

Note: All developments use conventional gravity sewer systems except for Tamarack Farm Estates

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