

CATCHMENT 1

Catchment 1 comprises residential buildings and a kindergarten named Päiväkoti Kanin kolo (Figure 1-2). Residential buildings are mainly 3-4 storey apartment buildings. Asphalt walkways and parking areas dominate yard areas. There are also some gravel/sand areas, mainly on playgrounds. The main street is called Kyyhkysmäki. The catchment is somewhat steep with about a 10 m elevation difference between the upstream and downstream ends of the sewer system (Figure 3). Nearly 70% of the catchment is covered with constructed impervious surfaces, of which a considerable proportion (~44%) consists of roof surfaces (Table 1).

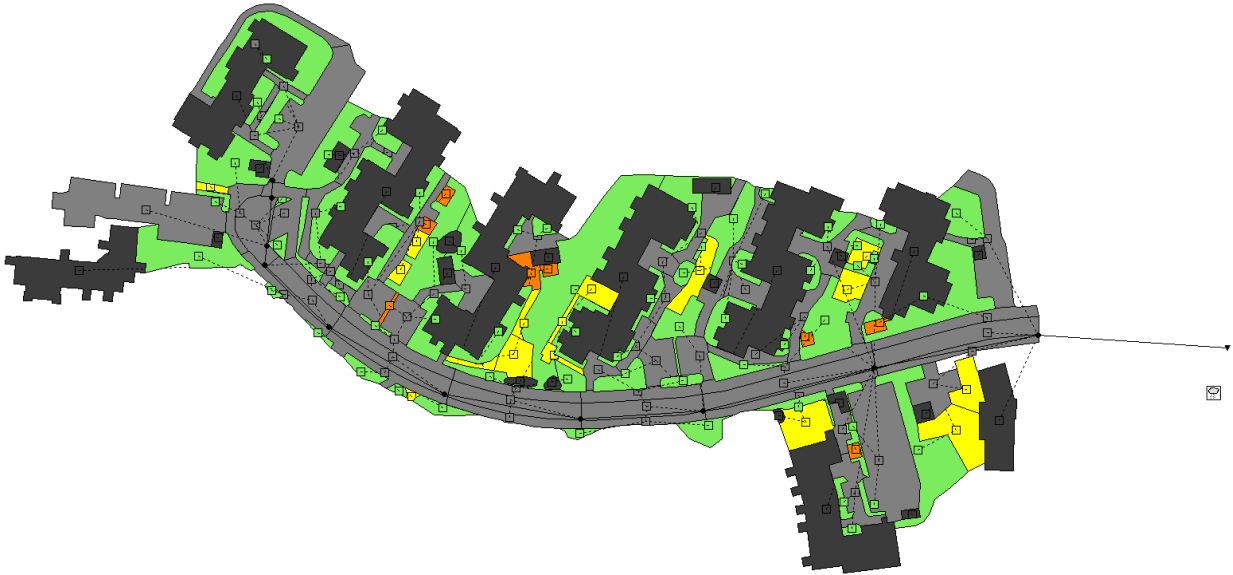


Figure 1. SWMM model view of Catchment 1.

Table 1. Catchment 1 land cover data.

	Area (ha)	Proportion (%)
Roof	0.78	29.3
Vegetation	0.71	26.6
Walkway	0.50	18.6
Parking	0.33	12.2
Road	0.19	6.9
Sand	0.14	5.2
Pavers	0.02	0.8
Rock	0.01	0.3
Total	2.67	100



Figure 2. Map view of Catchment 1 in OpenStreetMap (<https://www.openstreetmap.org/#map=18/60.22873/24.80922>).

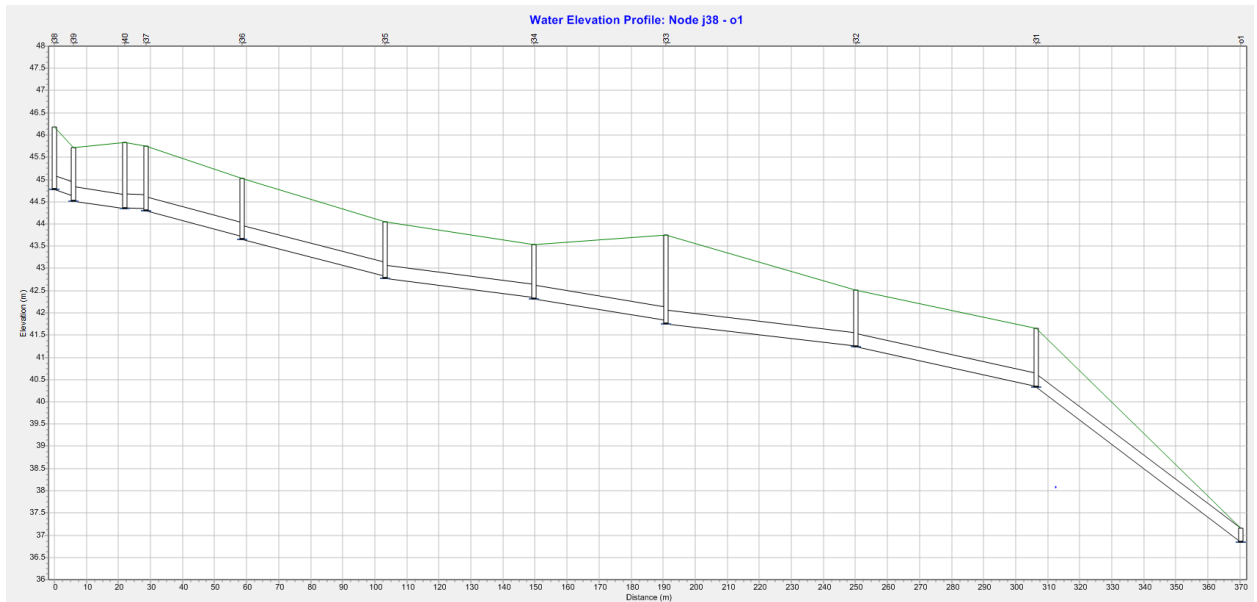


Figure 3. An elevation profile of the sewer network at Catchment 1.