

## Odour Control Treatment System



### Case Study Details

The York Durham Sewage System (YDSS) collects wastewater from the Towns of Aurora, Newmarket, Richmond Hill and Whitchurch-Stouffville as well as the Township of King, and the Cities of Vaughan and Markham to be treated at the Duffin Creek Water Pollution Control Plant. In 2012, a 15 km long, 3m diameter section of the YDSS called the Southeast Collector (SEC) was twinned in order to increase the capacity of the sewer system. At the same time, two state of the art odour control facilities were built, one to treat the foul air from the existing YDSS and one to treat the foul air from the new SEC.

These odour control facilities are each custom built concrete dual stage biofilters (biotrickling filter followed by biofilter) followed by FRP activated carbon adsorbers. Both concrete biofilter systems have been designed to be aesthetically pleasing with architectural elements and the SEC facility features a green roof and landscaped exterior. Each of the two cells is designed for a maximum of 21,450 m<sup>3</sup>/hr.

**Engineering Consultant:** AECOM

**Year of Installation:** 2012