

## Wastewater and Process Water Treatment DAF System Pilot



*H2Flow DAF ALPHA60 Unit and PF20 Pipe Flocculator*

### Case Study Details

PARAMETER	UNIT	VALUE
Plant Operation	hours	24/7
Flow Range	m <sup>3</sup> /hour	12-25
Design Flow	m <sup>3</sup> /hour	20
Design TSS	mg/L	4,700

The Disco Road Transfer Station was in the process of expanding the water and wastewater treatment system. The existing Sequencing Batch Reactor (SBR) system was overloaded, and the City of Toronto acquired H2Flow to provide a Dissolved Air Flotation (DAF) pilot unit to determine if the DAF process would be a good fit to solve the problem.

With the parameters provided by the client as the basis of design (summarized above), a full treatment package was installed in January 2019; which included a DAF unit with hydraulic capacity of 60 m<sup>3</sup>/hour, recirculation pump and recirculation flowmeter, pipe flocculator of 20 m<sup>3</sup>/hour nominal capacity and pH bypass loop, pH and turbidity sensors, and PLC controls.

The DAF pilot supplied by H2Flow worked, and based on the testing results, the city proceeded with a full-scale system. The project was delivered on time, working within a very tight delivery schedule.

**Engineering Consultant:** AECOM

**Client:** City of Toronto

**Start-Up:** January 2019