

Case Study

Georgian Downs Casino
WWTP - Innisfil, Ontario

ISAM Sequencing Batch Reactor 81.5 m³/day Avg.



Project: Wastewater Treatment expansion of Casino, Racetrack, and Slot Gaming Facility
Installation Contractor: MATHESON CONSTRUCTORS
Start-up: August 2009

INFLUENT DESIGN CRITERIA:

BOD: 529 mg/l
TSS: 580 mg/l
TKN: 100 mg/l
TN:
TP: 15 mg/l

EFFLUENT DESIGN CRITERIA:

10 mg/l
10 mg/l
1 mg/l
2.45 mg/l
1 mg/l

An expansion of the Casino required doubling the capacity of the existing SBR plant. H2FLOW was chosen over the previous SBR plant supplier to provide this expansion.

H2FLOW EQUIPMENT INC. supplied a FLUIDYNE ISAM SBR system, followed by a PARKSON Dynasand filter for denitrification. It was delivered as a design-build project in co-operation with Matheson Constructors Ltd.

This project was delivered under a very tight delivery schedule and project management timeline.

ISAM systems have the integral sludge digestion system. Sludge volume production is at a higher concentration than conventional treatment plants. The higher concentration of solids reduces hauling and disposal costs, greatly benefitting the owner / user with lower costs.

H2FLOW EQUIPMENT INC.