

1. Executive Summary

Paolo Cuda, EIT, from Finn Projects and Muaz Nasir from Toronto Water conducted a water audit of TCDSB Catholic Education Centre on June 10, 2014; the representative on site was Michael Cornacchia. The property is a mixed use office and education centre located at 80 Sheppard Ave East in Toronto.

The table below summarizes the water efficiency measures that were identified for TCDSB Catholic Education Centre, together with the potential water savings and estimated capital costs:

Ref #	Description of Energy Saving Measures	Estimated Annual Water Savings	Estimated Annual Cost Savings	Capacity Buyback Incentive	Net Cost of Retrofit	Net Present Value
		m ³	\$	\$	\$	\$
5.1	Install High Efficiency Toilets & Urinals	1,079	\$3,190		\$40,200	\$3,153
5.2	Install Low-Flow Aerators & Faucets	842	\$2,491		\$3,700	\$30,154
5.3	Convert the Water-Cooled Refrigeration Unit to Air-Cooled	1,134	\$3,355	-\$932	\$7,268	\$30,034
5.4	Install a Conductivity Controller to Automatically Control Blowdown of the Cooling Tower & Reduce Make-Up Water Needed	405	\$1,197	-\$333	\$7,267	\$6,041
	Total Estimated Savings	3,460	\$10,233	-\$1,265	\$58,435	\$69,382
	Annual Baseline Utilities (at same rates as savings)	8,874	\$26,248	Water Cost Savings: 39.0%		
	Percent Reduction	39.0%	39.0%			

NOTES:

- The above water and capital costs do NOT include HST.
- This report should only be considered to be a pre-feasibility report in scope and quality. Existing water consumption patterns, capital costs and potential incentives are only estimates (based on preliminary observations and discussions with the client) and are not guaranteed.
- It is the property owner's responsibility to ensure that any changes involving water distribution or utilization within the facility are done in accordance with all applicable codes, standards, permits and health and safety requirements.



1. Executive Summary

Paolo Cuda, EIT, from Finn Projects and Muaz Nasir from Toronto Water conducted a water audit of TCDSB Bishop Allen Academy on June 18, 2014; the representative on site was Douglas McDouglas. The property is a secondary school located at 721 Royal York Rd in Toronto.

The table below summarizes the water efficiency measures that were identified for TCDSB Bishop Allen Academy, together with the potential water savings and estimated capital costs:

Ref #	Description of Energy Saving Measures	Estimated Annual Water Savings m ³	Estimated Annual Cost Savings \$	Capacity Buyback Incentive \$	Net Cost of Retrofit \$	Net Present Value \$
5.1	Install High Efficiency Toilets & Urinals	1,364	\$4,034		\$48,500	\$6,323
5.2	Install Low-Flow Aerators & Faucets	1,134	\$3,355		\$1,100	\$44,496
5.3	Convert the Water-Cooled Refrigeration Units to Air-Cooled	1,682	\$4,974	-\$1,382	\$15,018	\$40,285
5.4	Repair Leaking Faucet	3	\$8		\$50	\$15
	Total Estimated Savings	4,183	\$12,371	-\$1,382	\$64,668	\$91,119
	Annual Baseline Utilities (at same rates as savings)	9,354	\$27,667	Water Cost Savings: 44.7%		
	Percent Reduction	44.7%	44.7%			

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1. Executive Summary

Paolo Cuda, EIT, from Finn Projects and Muaz Nasir from Toronto Water conducted a water audit of TCDSB Don Bosco Secondary School on June 26, 2014; the representative on site was Andrew Sinclair. The property is a secondary school located at 2 St Andrew's Blvd in Toronto.

The table below summarizes the water efficiency measures that were identified for TCDSB Don Bosco Secondary School, together with the potential water savings and estimated capital costs:

Ref #	Description of Energy Saving Measures	Estimated Annual Water Savings m ³	Estimated Annual Cost Savings \$	Capacity Buyback Incentive \$	Net Cost of Retrofit \$	Net Present Value \$
5.1	Install Low-Flow Aerators & Faucets	310	\$916		\$1,200	\$11,249
5.2	Convert the Water-Cooled Refrigeration Unit to Air-Cooled	360	\$1,064	-\$296	\$7,904	\$3,926
5.3	Install a Conductivity Controller to Automatically Control Blowdown of the Cooling Tower & Reduce Make-Up Water Needed	978	\$2,893	-\$804	\$10,096	\$22,069
	Total Estimated Savings	1,647	\$4,873	-\$1,100	\$19,200	\$37,244
	Annual Baseline Utilities (at same rates as savings)	11,112	\$32,867	Water Cost Savings: 14.8%		
	Percent Reduction	14.8%	14.8%			

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- It is the property owner's responsibility to ensure that any changes involving water distribution or utilization within the facility are done in accordance with all applicable codes, standards, permits and health and safety requirements.

