



FOR IMMEDIATE RELEASE

Hatch honoured during Canadian Consulting Engineering (CCE) Awards Virtual Celebration

(OTTAWA) October 29, 2020 – The work of Canadian consulting engineering firms was celebrated online Thursday night, as twenty projects were recognized for excellence during the 2020 Canadian Consulting Engineering (CCE) Awards virtual celebration. **Hatch** received **Awards of Excellence** for three projects, the first two to their Mississauga team for their *Mid Halton Wastewater Treatment Plant, Micro-Hydro Facility* project in Oakville, Ontario, and their *Vaudreuil VB 2022 - Phase I* project in Saguenay, Quebec. The third to their Niagara Falls team for their *Grand Falls Dam and Spillway Rehabilitation* project in Grand Falls, Newfoundland and Labrador.

Recognized as the industry's highest honours, the awards are presented to projects by Canadian firms that showcase the most remarkable engineering feats. “Though we may not have been able to celebrate in-person this year, these achievements and the incredible work of our members were recognized on a virtual stage” said ACEC President and CEO John Gamble. “Through their ingenuity and innovation, the work of consulting engineering companies connects communities, grows the economy, protects the public and improves sustainability. The impacts and benefits of their work are long-lasting, often immeasurable, and deserve to be celebrated.”

Exemplifying the evolving role of WWTP from wastewater treatment to resource recovery.



Mid Halton Wastewater Treatment Plant, Micro-Hydro Facility - To accommodate increased capacity the Region of Halton engaged **Hatch** to provide engineering services for the Mid Halton Wastewater Treatment Plant (WWTP) Phase IV-V Expansion Project in Oakville, Ontario. As part of this project, a new dedicated effluent outfall tunnel was needed to convey treated effluent from the plant to a diffuser field located offshore of Lake Ontario. The WWTP is located 40 km from the lake shoreline and consequently is 40 m higher in elevation than the lake level. Utilizing this elevation difference, a micro-

hydro system was installed in the effluent outfall to provide a source of sustainable power generation, reducing the carbon footprint and energy costs of the WWTP.

Additional benefits to the region included reduced operating costs and community recognition as being an environmentally conscious organization. This use of hydropower technology in a municipal wastewater treatment setting is one of the first of its kind and exemplifies the evolving role of WWTP from wastewater treatment to resource recovery. The transformation of a waste treatment plant to a resource recovery facility made this project a stand out for the jury with its ingenuity.



“Hatch is very honoured to be recognized with an Award of Excellence for the Mid Halton Wastewater Treatment Plant (WWTP), Micro-Hydro Facility project as it symbolizes sustainability, innovation and positive change. The micro-hydro system provides a source of sustainable power generation while reducing the carbon footprint and energy costs of the WWTP,” remarked Carl Bodimeade, P.Eng. Hatch’s Senior Vice President, Infrastructure.

Facility to become world leader in Bauxite Residue Management industry.



Vaudreuil VB 2022 - Phase I - Rio Tinto’s Vaudreuil Works is the largest inorganic chemistry center in Canada. As the existing residue disposal area (RDA) was limited, **Hatch** was engaged to provide full engineering, procurement and construction management (EPCM) services for opening a new filtration facility delivering at least 70% solids content bauxite residue, while maintaining operations at the refinery. Reducing costs and operational risks and meeting accelerated timelines were critical; any delay in project implementation or operational issues would impact the refinery production.

Conventional reduction exercises were expanded to bring the project in at 12% under the approved budget.

To achieve another key priority of zero harm throughout the project, the team implemented a ‘Stop & Seek’ health and safety (HSE) program that encouraged workers to stop and seek assistance when faced with a potential safety hazard. The end result was a project without any harm, and a new facility that is becoming a world leader in the Bauxite Residue Management industry. The jurors were impressed with how the project achieved significant reductions for residue storage, in dust emissions, and in residue processing time from 3 years to 17 minutes.



Sébastien Levesque, Project Manager for Hatch said, “our team is very proud to be recognized alongside our partner at Rio Tinto for the achievements of this extraordinary project. The CCE Award of Excellence is a celebration of disciplined project management, outstanding efforts of the individuals involved with this project, and strong partnerships.”

Team approach and innovative design solutions to serve as model for future rehabilitation projects.



Grand Falls Dam and Spillway Rehabilitation - Constructed in 1909, the Grand Falls Dam had deteriorated to the point where an upgrade was required in order to meet current safety standards. During the initial construction phase of the rehabilitation, serious constructability and safety issues arose. **Hatch** was tasked with devising a plan to eliminate these concerns. Within a month, by applying advanced hydrotechnical principles and a first of its kind ‘flash board’ cofferdam solution, a safe, innovative, environmentally friendly, cost effective, and constructible design plan that could be completed in a single construction season was developed. Design and construction proceeded utilizing the focused engineering efforts of this plan.

Through a collaborative approach combined with the application of sound engineering principles, the project was completed well below the original design budget and a year ahead of schedule. The team approach and innovative design solutions developed during the course of this highly successful project will serve as a model for future rehabilitation projects. The jurors selected this project for its unique approach to rehabilitation, its completion under budget and a year ahead of schedule with no lost time safety incidents or environmental losses.



“The remarkable success of this project was achieved by applying sound engineering and a teaming arrangement in which the engineer, contractor, and owner worked in close collaboration as one team. The end result speaks for itself: a safe, reliable dam that will deliver clean energy for decades to come,” said C. Richard Donnelly, Global Principal Consultant – Dams and Waterpower.

About the firm

Hatch - Whatever our clients envision, our engineers can design and build. With over six decades of business and technical experience in the mining, energy, and infrastructure sectors, we know your business and understand that your challenges are changing rapidly. We respond quickly with solutions that are smarter, more efficient and innovative. We draw upon our 9,000 staff with experience in over 150 countries to challenge the status quo and create positive change for our clients, our employees, and the communities we serve. Find out more on www.hatch.com.

Learn about all CCE Award winning projects

In November, follow ACEC’s national and international award winning *#20DaysOfExcellence in Engineering* campaign on social media. Visit www.acec.ca/cceawards to view videos of the winning projects and to learn more about the impact of consulting engineering on our quality of life.

About CCE Awards co-sponsors

ACEC represents companies in Canada that provide professional engineering services to both public and private sector clients. These services include the planning, design and execution of all types of engineering projects, as well as providing independent advice and expertise in a wide range of engineering and engineering-related fields. For more information about ACEC and the 2020 Canadian Consulting Engineering Awards, please visit www.acec.ca.

Canadian Consulting Engineer is a privately-owned magazine for professional engineers working as consultants in the construction field. It is published by Annex Business Media. This year's award-winning projects are described in full in the October/November 2020 issue of *Canadian Consulting Engineer* at www.canadianconsultingengineer.com/digital-edition/

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Multimedia (photos, project descriptions, videos)

Mid Halton Wastewater Treatment Plant, Micro-Hydro Facility project [page](#) with video & [photo](#)

Vaudreuil VB 2022 - Phase I project [page](#) with video & [photo](#)

Grand Falls Dam and Spillway Rehabilitation project [page](#) with video & [photo](#)

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